KANSAS GAS AND ELECTRIC COMPANY

GLENN L. KOESTER
VICE PRESIDENT - NUCLEAR

January 21, 1985

Mr. Richard C. DeYoung, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

KMLNRC 85-037
Re: Docket No. STN 50-482
Ref: Letter KMLNRC 84-238 dated 12/31/84 from GLKoester, KG&E, to RCDeYoung, NRC
Subj: Supplemental Response - EA 84-107

Dear Mr. DeYoung:

The Reference transmitted Kansas Gas and Electric Company's (KG&E) response to the Notice of Violation concerning structural steel welding at Wolf Creek Generating Station. Subsequent to the issuance of that response, KG&E has determined that some of the corrective actions concerning the installation of a few specific welds identified in Appendix D of the response must be revised because the weld locations are inaccessible. The KG&E Management Plan has always been to install any missing weld (even if not required to meet design allowables) unless the weld location was inaccessible. In the event the location was inaccessible, the Architect/Engineer would evaluate the joints on a case-by-case basis and either disposition the joint for use-as-is (i.e., design allowables were met in the as-built condition) or make a design change to meet the design allowable stress. In any event, the design allowable stress would be accomodated and the design changed to reflect the "as installed" configuration. Therefore, in accordance with the KG&E Management Plan the disposition of some of the Nonconformance Reports associated with the missing welds identified in Appendix D of the Reference have been changed to use-as-is due to the inaccessibility of the weld location. Attachments A and B provide revised sections of the initial response to reflect the final disposition of the welds discussed in Appendix D.

The attached revisions include the following changes:

1. Editorial changes.

2. Revision of Section IV to reflect the closure of item 1a3 concerning Welder Qualification Procedures. This item was open when the initial response was submitted.

3. Revision of sections I through V and Appendix D to reflect the number of joints reworked as a result of revised dispositions as described above. It should also be noted that the total number of joints evaluated was changed from 2669 to 2670 due to a counting error in the initial report on this subject.

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4. Revision of Appendix D to reflect the final disposition of specific missing welds.

Please replace sections I through V of the original report transmitted by the Reference with Attachment A and replace Appendix D of the original report with Attachment B. Please contact me or Mr. Otto Maynard of my staff if you have any questions concerning this supplemental response.

Yours very truly,

Glenn L. Koester
Vice President - Nuclear

GLK/keh

cc: PO'Connor (2)
WGuldemond
HBundy
RDMartin

ATTACHMENT A

I. CAR-19 EXECUTIVE SUMMARY

Because of deficiencies (i.e., undersize, undercut,...) previously found in fillet welds on ASME and Special Scope hangers, DIC performed a random reinspection of structural steel fillet welds in February, 1983 in all "Q" designated buildings in the Powerblock. This reinspection indicated that an unacceptable percentage of structural steel fillet welds were deficient in the Auxiliary, Control and Fuel Buildings. A Corrective Action Report (CAR 1-W-0029) was initiated by DIC to implement reinspection, and nonconformance reports were generated to document and disposition deficiencies noted.

Subsequent to the issuance of CAR 1-W-0029 it was determined, during the course of document reviews in the Building turnover process, that Miscellaneous Structural Steel Weld Records (MSSWR's) could not be located as procedurally required for all structural steel welds in "Q" designated buildings. These missing MSSWR's resulted in DIC issuance of CAR 1-C-0031.

The concerns addressed in CAR's 1-W-0029 and 1-C-0031 as well as other items listed in the "Introduction" section of this report caused KG&E Construction Quality Control to initiate a limited inspection verification program. Through this inspection program additional concerns were raised as a result of the inspection verification results. These results identified instances of missing welds which had no inspection records, two missing welds which had inspection records, and welds with inspection records that did not completely comply with project inspection and documentation criteria. The results of the verifications combined with the missing weld inspection records identified the need for a formalized action plan to fully investigate the concerns and formulate corrective action as necessary. To accomplish this KG&E QA initiated Corrective Action Request 19, describing the concerns and recommending corrective action on October 17, 1984. Based on the corrective actions recommended by CAR-19 and additional actions deemed warranted in support of the investigations, a Management Plan was developed to designate the nature and extent of the investigations.

The Management Plan covered three basic categories of investigation and evaluation. One category was a process of reinspection to identify and evaluate actual hardware conditions in the field. A second category addressed the programmatic aspects of Structural Steel erection through evaluation of both construction and quality program procedures. A third category addressed related considerations such as other AWS D1.1 applications, evaluation of missing welds identified during the reinspections, evaluation of acceptable inspection records completed for welds found to be missing, and review and evaluation of surveillances, audits, and reports pertinent to AWS welding. Although not initially in the scope of KG&E CAR-19, non-welding related quality programs were reviewed for comparable programmatic deficiencies. In accomplishing this KG&E and DIC conducted an extensive program assessment of the Piping, Hanger, Mechanical, Electrical and Civil disciplines to ascertain the adequacy of the construction and quality programs instituted. This program assessment was conducted by KG&E and DIC Management representatives, and concluded that a satisfactory level of confidence exists to assure compliance of these to 10CFR50, the FSAR, ANSI N45.2, and design and procedural requirements.

The intent of the program evaluation was to evaluate the various construction and quality programs/procedures to determine their compliance to the AWS D1.1 Welding Code and FSAR commitments. This evaluation included

relevant aspects of the various related programs from the initiation of purchase orders for procurement of structural steel and welding materials, to final installation and quality acceptance. The procedures for receiving, storage and handling of materials were evaluated, as well as compliance of procedures for training and certification of inspectors to ANSI N45.2.6 and welder qualification to AWS requirements. The procedure reviews included a thorough evaluation from their origination through subsequent revisions, including an analysis to assure current conformance to design document requirements. No findings were noted that were determined to be contributing factors to inadequacies in AWS D1.1 applications, although some procedural inadequacies were discovered and reconciled.

All other safety-related programs utilizing AWS welding were analyzed to ensure that the root cause identified as the reason for previous acceptance of deficient structural steel welds was not inherent, or impactive, to these programs as well. The method of documenting weld inspections, control of this documentation, and accountability to assure all required documentation was retrievable was researched for AWS D1.1 welding applications in raceway supports, electrical equipment, mechanical equipment, fire dampers, safety-related HVAC ductwork and supports, miscellaneous steel and embed fabrication, and pipe whip restraints for assurance that problems similar to those encountered in structural steel did not exist. Previously compiled information including Construction Self Assessment Reports, KG&E QA Reports and Surveillances, DIC QA Reports, DIC Project Monitoring Program Audits, and DIC Corrective Action Reports were reviewed to determine if the results of previous investigations indicated other potential problem areas relevant to AWS D1.1 welding. No findings were noted that could be considered to be contributing factors to inadequacies in AWS D1.1 programmatic applications. An analysis of hardware installations for other project applications of AWS D1.1 welding identified one other area to be investigated for AWS welding problems. This is in the area of electrical equipment installations where the method of permanent installation is by welding the equipment mounting frame to foundation embeds. DIC is addressing this potential problem on Corrective Action Report No. 1-EW-0046.

Reinspection of field welds was conducted utilizing AWS Certified Welding Inspectors who were also certified to the DIC Quality Program requirements of ANSI N45.2.6. Inspections were performed in strict compliance to the Inspection Verification Plan which established inspection criteria and documentation requirements, and was incorporated into an existing DIC Quality Procedure, QCP-VII-200, and approved by DIC, Bechtel, and KG&E.

DIC and Bechtel research substantiated that DIC welders and welding procedures applicable to AWS D1.1-1975 welding of structural steel installations were satisfactorily qualified in accordance with AWS requirements. Research by DIC and Bechtel resulted in assurance that the programs and procedures for the purchase and control of weld filler materials used in AWS D1.1 applications were in compliance with AWS requirements, and were properly implemented on site.

The retrievability and control of Miscellaneous Structural Steel Weld Records was thoroughly researched, and a determination made that inadequate implementation of DIC Construction procedures was the primary contributing factor relative to retrievability and accountability problems in this area.

An evaluation of the DIC Quality inspection training program demonstrated that this program and related procedures were in compliance to ANSI N45.2.6. Further investigation concluded that Quality inspection training was appropriate and adequate during the structural steel installation time frame.

An evaluation of DIC Quality inspection procedures and criteria applicable to the original structural steel installation/inspection period revealed several procedural inadequacies. A thorough analysis of the omission of each inspection criterion of AWS D1.1 structural steel applications was accomplished, with the conclusion that no adverse impact had resulted from these procedural inadequacies relative to AWS D1.1 welding inspection.

Inspection criteria to be used in the structural steel reinspection activities was procedurally defined and training of all personnel completed prior to reinspection initiation. Sufficient technical justification was established by Bechtel to validate inspection of welds through a predetermined maximum thickness of paint. An analysis of reinspection results determined the root cause of the previous acceptance of deficient structural welds to be due to DIC inspection implementatic differences relative to inspection vs. reinspection techniques, and inadequate implementation of applicable DIC procedures during original inspection efforts. These inspection implementation differences are discussed elsewhere in this report, referencing the Reedy, Herbert, Gibbons documentary included in the Appendix, section VI.G.

Two joints (each missing one weld) of the two thousand six hundred seventy (2,670) reinspected (representing more than 11,000 welds) had documentation reflecting the installation of these welds when in reality they were not installed. Research revealed no evidence to indicate that either was a case of deliberate falsification. Additional investigations did indicate that human error was the cause of incorrectly documenting these nonexistent installations.

Reinspection found that approximately two (2) percent of the inspected welds were not installed as required by design documents. These errors were primarily due to craft/engineering confusion relative to installation drawing details and requirements. Failure to install these welds and materials, although in some cases determined to be significant in impact to stress allowable calculations, would not have resulted in material or structural failure if left uncorrected.

The total number of joints subjected to the reinspection program was two thousand six hundred seventy (2,6709). These joints were selected by Bechtel as structurally significant (See Appendix IV. D) with the distribution being: 694 in the Auxiliary Building, 1300 in the Reactor Building, 265 in the Control Building, 98 in the Diesel Generator Building, 36 in the ESWS Pumphouse, and 277 in the Fuel Building. The reinspection documented an as found condition regardless of the weld acceptability. All results were forwarded to Bechtel in the form of inspection data sheets for evaluation. This evaluation was based upon Bechtel's review of reinspection data accumulated and nonconformance reports (NCR's) generated. The evaluation for structural adequacy was made based upon this cumulative data that

reflected the as-built condition of the structurally significant joints prior to any rework or repairs. No deficiencies were identified, which if left uncorrected, would have adversely affected the safe operation of the plant. The results of this evaluation provides assurance that Safety Related AWS D1.1 structural steel welding complies with all Quality criteria as specified in the related design documents, and is within the tolerances of acceptable deviation as determined by the Architect/Engineer.

Joints that in the as-built condition were determined to exceed the design allowable stresses were all reworked unless prohibited by field conditions. In addition joints in which the design allowable stresses were not exceeded in the as-built condition but were missing welds, were also reworked unless prohibited by field conditions.

II. INTRODUCTION TO CAR-19

A series of activities as identified below pertaining to weld inspection at Wolf Creek ultimately led to the issuance of KG&E CAR-19 addressing AWS D1.1 Structural Steel welding concerns.

In September, 1980, DIC initiated Corrective Action Report 1-M-0007 due to improper inspection technique application, which required 100% reinspection of all socket welds on small bore piping installed prior to June, 1980. Subsequent to this reinspection effort, DIC generated Corrective Action Report 1-W-0019 on August 17, 1982, due to a significant quantity of fillet weld discrepancies being identified, which required 100% reinspection of all fillet welds on ASME and Special Scope piping hangers made prior to April 1, 1981. DIC performed a random reinspection of structural steel fillet welds in February, 1983, in all "Q" designated buildings in the Powerblock to determine whether structural steel welds may have been deficient as a result of the same root cause relative to CAR 1-W-0019. It was determined from these reinspection results that an unacceptable percentage of structural steel welds were deficient in the Auxiliary, Control, and Fuel Buildings. Thus CAR 1-W-0029 was initiated by DIC to implement reinspections, and nonconformance reports were generated to document and disposition the deficiencies noted.

As a result of documentation review prior to building turnovers DIC initiated CAR 1-C-0031 in August, 1983, to document that Miscellaneous Structural Steel Weld Records (MSSWR) could not be located as required by procedures for all structural steel welds in "Q" designated buildings. Nonconformance Reports were generated to document missing MSSWR's in each of these buildings.

KG&E and DIC site management held meetings in May, 1984, to further discuss retrievability of MSSWR's and the problems that had been identified to date. Concerns were expressed through KG&E Quality First to KG&E Construction Management regarding the acceptability of "Use-As-Is" dispositions given to NCR's written as part of CAR 1-C-0031's corrective action in July, 1984, and KG&E Management requested DIC to generate a revision to CAR 1-C-0031 in letter KWCLC 84-814 of July 30, 1984, in response to some concerns noted. Revision 6 to CAR 1-C-0031 was generated by DIC in response to KG&E's concerns.

KG&E Quality Assurance performed a detailed review of DIC CAR 1-W-0029 and 1-C-0031 in August, 1984, identifying numerous concerns to KG&E Construction. In response KG&E Construction began a documentation reconciliation task on August 13, 1984, to determine which safety-related structural steel welds did not have supportive MSSWR's.

On August 17, 1984, KG&E Construction Quality Control initiated an Inspection Verification Plan to provide an accurate assessment of the "as-built" conditions of safety-related structural steel welds without MSSWR's. DIC and KG&E Management discussed revision of this inspection program on August 30, 1984.

KG&E, DIC and Bechtel made a joint presentation to an NRC Task Force on September 10, 1984, which identified the belief at that time that the problem was one of document retrieval, and not a hardware problem. The NRC Task

Force discussed the problems with KG&E again on September 13, 1984, during which KG&E Management agreed to perform a sample hardware inspection of six (6) randomly selected structurally significant joints in the Reactor, Fuel, Control, Auxiliary, Essential Service Water, and Diesel Generator Buildings. This inspection resulted in the discovery of missing welds and missing structural members, which were reported to the NRC by KG&E under 10CFR50.55(e) on September 18, 1984. Subsequent meetings were held with NRC Representatives on September 25, 1984, and September 28, 1984, to status inspection efforts and provide information updates. An AWS Welding meeting was held with the NRC on October 19, 1984, on site relative to structural steel welding, with a follow-up meeting on October 22, 1984, in which KG&E Management discussed AWS structural steel welding concerns with the NRC.

On October 17, 1984, KG&E Quality Assurance issued CAR-19 to KG&E Construction to obtain corrective actions associated with AWS D1.1 structural steel welding. The findings addressed in CAR-19 included missing MSSWR's for safety-related structural steel welds; deficiencies being identified in previously accepted structural steel welds, missing structural welds or missing structural material; and documentation that a weld was inspected and accepted, but no weld was installed.

KG&E and DIC Management representatives subsequently developed a logic chart to organize resolutions relative to CAR-19's concerns, a Management Plan to implement corrective actions, and published a CAR-19 Corrective Action Schedule to provide a means for tracking corrective action progress.

In addition, KG&E Management contracted Lehigh University to review the problems associated with the structural welds in the structures at Wolf Creek Generating Station. The results of their review is included in Appendix VI.F of this report.

III. CAR-19 OBJECTIVES

- To document a consolidated project plan for the identification, evaluation and resolution of problems associated with Safety-Related AWS D1.1 Welding.

- To provide assurance, based on objective evidence, that AWS D1.1 Welding of Safety-Related Structural Steel complies with all Quality Criteria as specified in the related design documents and is within the tolerances of acceptable deviations as determined by the Architect/Engineer.

- To provide assurance that the documentation which supports the inspection of safety related structural steel welds is:

  - Available - Complete - Reflects appropriate information - Traceable to the item or activity

- To evaluate supporting elements of the DIC Quality Assurance Program to ensure that those elements were adequately and effectively implemented to demonstrate that the DIC welding of Safety Related Structural Steel, HVAC Supports, Electrical Supports, Pipe Whip Restraints and any other AWS D1.1 safety related welding activities were in compliance with the FSAR (i.e. AWS D1.1 - 1975) and the Design and Construction QA Program Manual, Section 17.1.B.

- To evaluate DIC Construction/Quality programs in areas other than AWS D1.1 welding to determine the potential of programmatic deficiencies.

IV. CAR-19, DISCUSSION OF FINDINGS AND CORRECTIVE ACTIONS

The KG&E Management Plan for the resolution of CAR-19 was developed by DIC and KG&E Management personnel to document a consolidated project plan for the identification, evaluation and resolution of problems associated with safety-related AWS D1.1 welding. The intent of this plan is to verify that both the hardware and programmatic aspects of all safety-related activities utilizing AWS D1.1 welding are in compliance with the FSAR and the Design and Construction Program Manual.

The logic chart for the resolution of CAR-19 was developed to illustrate the approach to be used in providing the verifications needed for implementation of satisfactory corrective action. The Corrective Actions as described in the KG&E Management Plan are identified in the flow of activities as designated on the logic chart. The logic chart is included as an attachment to this report in the Appendix, section VI.B.

Five (5) findings were included in CAR-19. The detailed activities and investigative actions required to implement each Corrective Action are delineated in the KG&E Management Plan. The process of corrective action for each finding generated by CAR-19 entails multiple activities. Each finding and it's respective corrective actions are discussed in detail in the following. Supportive and/or investigatory documentation for each finding as discussed in this section is delineated in the Appendix, section VI.I.

Finding #1 of KG&E CAR-19 stated, "The results of the Document Reconciliation Task Force indicated that 1509 of 6816 MSSWR's for Safety Related Structural Steel Welds are missing".

Six (6) corrective actions were prescribed as appropriate for the resolution of this finding and related concerns. These corrective actions were focused toward programmatic evaluations, procedural criteria evaluations, and a reinspection program utilizing certified inspectors. Following is each of the six (6) corrective actions for Finding #1 with an analysis of the investigative actions taken and a summarization of each corrective action's results in accordance with the KG&E Management Plan's directions.

Corrective Action 1a)

"Based on DIC program requirements assure that all of the welders and welding procedures were qualified to AWS D1.1."

This activity was subdivided into three elements of research. These elements included development of an AWS D1.1-75 Attribute Checklist analyzing individual attributes relative to the welding process. The checklist lists all AWS requirements and compares those requirements with DIC Construction Welding Procedure requirements, in each case citing explicitly how the corresponding DIC procedure addresses separate AWS criteria. This checklist is conclusive data that provides evidence of all AWS D1.1-75 criteria being adequately addressed by DIC Construction Welding Procedure, CWP-506, "Welding of Carbon Steel". An attachment to this checklist documents the procedure review cycle for CWP-506, showing that each revision from 09/14/78 through the current revision dated 05/21/81 was consistently reviewed and approved by the individuals designated that responsibility.

A second element of this activity was the statistical sampling of AWS Welder qualifications in accordance with MIL-STD-105D. The total quantity of retrievable Miscellaneous Structural Steel Weld Records (MSSWR) applicable to AWS welding was initially identified to define the total population to be used in selecting a sample size. A "Single Sampling Plan for Normal Inspection" was utilized, randomly selecting MSSWR's for review of welders' qualifications. This sample included a variety of welders, a variety of AWS welding procedures, a representative sample of welders during the 1978-1984 time frame, and sampling from welders working in all Powerblock buildings. Identification of welders was taken from the MSSWR's and welder qualification records (W-105). These were then reviewed to assure that each welder was qualified to the weld procedure entered on the MSSWR at the time of weld installation.

A sample size of two hundred (200) was selected as being most representative, given the previous considerations. Based upon Table II-A of MIL-STD-105D, DIC desired a ninety-six percent (96%) Acceptable Quality Level (AQL). This AQL accepts fourteen (14) rejectable units from a sample of two hundred (200), and rejects the entire population when the fifteenth (15) rejection of the sample is observed.

Research performed by DIC Welding Engineering revealed thirteen (13) incorrect entries on MSSWR's, with only four (4) of these considered "rejectable" due to the nature of the discrepancies. All thirteen discrepancies were due to incorrect entries being made on the MSSWR, with nine (9) of the thirteen having the weld technique entered as N-1-1-A-6 rather than N-1-1-A-6A. These two weld techniques were evaluated by DIC Welding Engineering by comparison of attributes and essential variables, and it was determined that no adverse impact existed. The four (4) entries considered rejectable were due to welders incorrectly entering a welding procedure number for which they were not qualified on an MSSWR.

A Nonconformance Report, 1SN 20984CW, was generated to document all thirteen (13) discrepancies noted, and was recommended for a "Use-As-Is" disposition by DIC Welding Engineering. This Nonconformance Report has been reviewed and disposition concurrence received from Bechtel, closing the NCR.

The third element of this activity was a review by Bechtel of DIC Welder Qualification Procedure and the DIC Welding Procedure Specifications to assure compliance to AWS D1.1-75.

Bechtel reviewed DIC Construction Welding Procedure, CWP-502, "Qualification of Welders", all revisions up to and including Revision 19. This review indicated full compliance with the AWS D1.1-75 for revisions 1 through 18. However, Revision 19 does not strictly comply with AWS D1.1-75 in the following areas. Nonconformance Report 1SN21472MW was generated to document these deviations and was dispositioned "Use-As-Is" by DIC Welding Engineering. Support for this disposition was generated by DIC Corporate Welding Engineering as well as by AWS.

Bechtel randomly selected Welding Procedure Specifications (WPS) from MSSWR's applicable to structural welds in the 1978-1984 time frame. The review of the WPS' indicated full compliance with AWS D1.1-75 with one exception, undercut criteria, which was allowed by the Wolf Creek Final Safety Analysis Report, Revision 0, October, 1979. Three of the WPS' permitted undercut to be acceptable provided the depth did not exceed 1/32 inch, which is a relaxation of AWS D1.1-1975 undercut criteria.

The exception to the AWS D1.1-75 undercut criteria exists in Revision 0 of the Wolf Creek Final Safety Analysis Report, Section 3.8.3.6.3.3, dated October, 1979, and was also added by a revision to Bechtel Civil Specification C-122 and C-132, the design specifications applicable to the structural steel connections in the CAR-19 reinspection program. Based upon these facts the Bechtel Material and Quality Services Department (M&QS) determined that the WPS' used during erection/installation of structural steel members did comply with AWS D1.1-75. Paragraph 1.1.2 of AWS D1.1 defines the "Engineer" as the duly designated authority who acts for and in behalf of the Owner, and the exception to AWS undercut criteria was documented in the FSAR to comply with this paragraph.

It is Bechtel M&QS' conclusion that the review of the DIC WPS' and supportive documentation demonstrates that the welding procedures used by DIC during structural steel installation did comply with the AWS D1.1-1975 Structural Welding Code Edition when used concurrently with supportive design documents and the revisions to the FSAR.

In conclusion, the three elements of analysis included in the research performed on Activity 1a offer assurance that all DIC welding procedures were qualified in accordance with AWS D1.1-75 requirements.

Corrective Action 1b)

"Review the DIC Program for the purchase and control of filler material to ensure that only acceptable filler material was used in safety related welds. Assure that both safety related and non-safety related filler materials were properly controlled to preclude improper applications."

This activity was divided into two elements of research, those being; the DIC review of procedures for the purchase and control of filler and base materials, and Bechtel's review for the purchase and control of filler materials.

DIC Civil Engineering performed an in-depth review of the DIC Program for purchase of structural and miscellaneous steel and found the DIC Program to be in accordance with the requirements of Bechtel Specifications 10466-C-121 (Purchase of Structural Steel), and 10466-C-131 (Purchase of Miscellaneous Steel). These specifications and their respective DIC procedures were found to adequately address applicable requirements for assuring correct material specification, grade, marking, traceability and other Quality Assurance requirements. In addition these specifications and procedures provide for buyer verification of any or all of the established specification requirements.

The DIC procedures applicable to procurement activities are as follows:

AP-VII-01 Development and Approval of Bidders List

AP-VII-02 Requisitioning of Daniel Procured Materials, Equipment and Service

AP-VII-03 Bid Requests

AP-VII-04 Receiving and Processing Bid Proposals

AP-VII-05 Issuing Purchase Orders and Change Orders

During a self-initiated KG&E review of safety-related procurement records in January, 1984, several cases were identified in which DIC purchase orders did not comply with all A/E specification requirements. As a result of these findings, DIC initiated a Corrective Action Report (CAR) 1-G-0036, to perform a complete review of all purchase orders to verify compliance to specification requirements. This investigation encompassed the review of five hundred thirty-six (536) safety-related purchase orders to assure hardware and documentation to be in compliance with specifications. Any discrepancies identified during this review were documented on Nonconformance Reports for resolution by DIC, KG&E and the A/E. Those nonconformances identified relative to structural steel were determined to be all documentation related with no hardware impact. All corrective actions were completed, all Nonconformance Reports resolved and closed, and Corrective Action Report 1-G-0036 was closed on 05/24/84.

DIC Civil Engineering accomplished a detailed study of the control and issuance of base materials applicable to structural steel installations. This review was based upon a thorough analysis of material control requirements for this application in the following DIC procedures:

AP-VIII-02	Material and Equipment Receiving
AP-VIII-03	Identification, Marking and Inspection
AP-VIII-04	Receiving Discrepancies
AP-VIII-05	Material Storage and Control
AP-VIII-07	Material Issue
QCP-IV-111	Erection of Structural Steel and Pipe Whip Restraints
WP-IV-111	Structural Steel and Pipe Whip Restraint Erection

This review investigated such areas as the use of Structural Steel Fabrication Requests, requisitioning and issuance of the material to craft for erection, maintenance of traceability through heat number transfer for material that is divided, and documentation of this heat number on permanent plant records. DIC Civil Engineering's research concluded that acceptable control and utilization of base materials is maintained through DIC programs and procedures.

Bechtel's Materials and Quality Services Group furnished information based on their research to ensure that the DIC Procurement program had in fact resulted in the proper filler material being purchased and subsequently utilized in structural steel installation activities. This review was documented in attachments to a letter from B. W. Bain of Bechtel Materials and Quality Services to Gary Stanley on 10/16/84. This analysis entailed the following activities: (1) A review of purchase orders/certified material test reports for conformance to AWS D1.1 requirements to verify that all heat numbers for welding filler material are acceptable for structural steel installations, (2) A comparison of all E7018 weld rod heat numbers issued to the DIC Rod Room during the time frame of structural steel installation/ erection to verify that correct filler material was used, (3) A review of the DIC weld filler material issuance control procedure/program to ascertain that welders were only issued filler material for the welding procedures to which they were qualified, and applicable to the work being performed.

The results of these investigations were positive, with no discrepancies being found. This effort further substantiates that correct weld filler material was utilized in structural steel erection. DIC Welding Engineering reviewed the procedural details relative to issue of weld filler materials, identifying the control of filler materials explicitly for field issue as well as test shop issue. This review indicates that control is adequate, with supportive documentation, thereby assuring proper filler material issue. DIC Welding Engineering also noted that Quality Inspection performed, as required by DIC Construction Procedure QCP-VII-200, Inspection of Welding Process, random surveillances of welding process attributes. Among the attributes covered by this surveillance are that filler material control is implemented according to applicable welding procedures, and that the welder is currently qualified to the weld technique to be employed.

DIC Welding Engineering performed a review of the specification and procedural requirements relative to the purchase, issue and control of filler materials. It was determined that only E7018 electrodes have been used in AWS D1.1 applications, as required by all site AWS D1.1 welding techniques. All E7018 electrodes purchased by DIC are required to conform to AWS A5.1 (Specification for Mild Steel Covered Arc Welding Electrodes). To substantiate this fact DIC Welding Engineering performed a review of all purchase orders that involved E7018 electrodes. All these purchase orders were proven to have adequate documentation to justify that the electrodes conform to AWS specification A5.1.

Based upon procedural requirements, weld filler material issue controls, and random Quality Inspection surveillances, assurance has been provided that only acceptable filler materials have been utilized and that control has been as required for all AWS D1.1 applications.

Corrective Action 1c)

"Evaluate the adequacy of the DIC inspection criteria and procedures to determine if these elements could have adversely impacted the inspection results. Document and provide this evaluation to KG&E QA for review prior to inspection implementation. Any changes in inspection criteria and procedures shall be provided to KG&E QA for review prior to implementation."

This activity was divided into two elements. The first element was a review of DIC weld inspection criteria contained in QCP-VII-200. The inspection criteria was reviewed to determine compliance with AWS D1.1-75 and Bechtel Specifications 10466-C-132. The second element was to evaluate the results and determine if these elements could have adversely impacted the inspection results.

An AWS D1.1-75 and Bechtel Specification attribute checklist was developed by DIC Quality Engineering. Inspection criteria defined in QCP-VII-200, Appendix II was reviewed in accordance with the checklist. The review indicated that currently QCP-VII-200, Revision 20, meets or exceeds the inspection criteria as delineated in AWS D1.1-75 and the Bechtel specifications. The review of the QCP-VII-200 procedural history revealed most criteria was presented verbatim from AWS or the Bechtel specification. Other criteria, although not verbatim, was interpreted as being in compliance with AWS and the Bechtel specification. The review did indicate four (4) areas of inadequacy. The following is a list of these areas and the time frame affected:

1) Oversized Welds - 4/18/78 - 5/2/84 (Revisions 2 - 19)

   Inspection criteria for oversized welds was not delineated in QCP-VII-200 during this time frame.

2) Convexity - 3/30/77 - 1/18/83 (Revisions 0 - 15)

   During the time frame 3/30/77 through 12/15/81, QCP-VII-200 required the Quality Inspector to utilize the Weld Technique Sheet for compliance. During the time frame 12/15/81 through 1/18/83, QCP-VII-200 required: "Fillet welds may be slightly convex/concave." During the entire period, the following criteria was not delineated in QCP-VII-200 or the Weld Technique Sheets. "Except at outside corner joints, the convexity shall not exceed the value of 0.1S plus (+) 0.03 inches where S is the actual size of the fillet weld in inches."

3) Cracks - 12/15/81 - 5/26/82 (Revisions 9 - 11)

   Inspection criteria for cracks was not delineated in QCP-VII-200 during this time frame.

4) Lack of Fusion - 12/15/81 - 09/22/83 (Revisions 9-16)

   Inspection criteria for lack of fusion was not delineated in QCP-VII-200 during this time frame.

An evaluation was performed to determine if these procedural inadequacies could have adversely impacted the inspection results. The following is the results of the evaluation:

1) Oversized welds: Bechtel Specifications 10466-C-122 and 10466-C-132 were revised 4/18/78. This revision required oversized welds not to exceed 100% or 3/8" greater than specified, whichever is less. During a civil retrofit review of Bechtel specifications and DIC procedures, this procedural inadequacy was identified. Nonconformance Report 1SN 16988CW documented this deficiency and resulted in a recommended disposition of "Use-As-Is". Based on Bechtel's concurrence with this disposition, the omission of this item is considered to have no adverse impact to inspection results.

2) Convexity - Bechtel specifications required welds to meet convexity limits as delineated by AWS D1.1 until 12/08/82. After this date, Bechtel specifications altered the convexity requirement by stating that fillet welds need not satisfy convexity limits of AWS D.1.1. DIC Procedures have delineated criteria as "welds may be slightly concave/convex". Based on procedural control and the relaxed specification criteria, this item is considered to have no adverse impact to inspection results.

3 & 4) Cracks and Lack of Fusion - Inspection criteria for cracks and lack of fusion were inadvertently omitted during general revision from DIC inspection procedures on 12/15/81. The criteria was reinstated in site procedures on 5/26/82 for cracks and 9/22/83 for lack of fusion. The absence of this criteria occurred after the completion of main frame structural steel erection (5/81). However, to establish that there was no impact in other AWS D1.1 applications due to the omission of these items, twenty-six (26) DIC welding inspectors were interviewed. These interviews were used to determine the following:

1) Procedures used for training and inspection.

2) Inspection attributes addressed during training.

3) Inspectors' awareness that cracks/lack of fusion criteria was omitted from procedures for a period of time.

4) Did inspectors inspect/reject welds for cracks and lack of fusion?

The inspectors interviewed had inspected structural steel welds as well as HVAC and electrical support welds during the time frame in which the procedural deficiencies occurred. In all cases inspectors indicated that they had inspected/rejected welds for cracks and lack of fusion. Inspectors were aware of the procedural deficiencies, however, they continued to inspect/reject for cracks and lack of fusion. This is further substantiated based on re-inspection results conducted on structural steel. The rejection rate for cracks and lack of fusion is minimal when compared to the total number of welds inspected.

In conclusion, the review of weld inspection criteria utilized during the history of this project did indicate areas of procedural deficiencies. However, based on the above information, it has been determined that these inadequacies did not result in generic inadequacies in AWS D1.1 welding.

Corrective Action 1d)

"Obtain a documented evaluation to determine the validity of inspections performed with the presence of paint on the weld."

This activity was divided into three elements: obtain information from other utility/AE's that have developed a validation plan, with a subsequent review by DIC Welding Engineering and Bechtel and the addition of site specific requirements and justification, and Bechtel's submittal of a 'position letter' to KG&E for approval.

DIC Management obtained information from Carolina Power & Light Co., and Ebasco Services Incorporated relative to the validity of inspections performed with paint on the welds. This information was utilized by Bechtel in conjunction with their additional research to establish an A/E's position to KG&E. In summary, this position, more explicitly defined in letter BLKES-1348 from C. M. Herbst to G. L. Fouts, is: "With the exception of a number of attributes, fillet welds which have been coated with up to four (4) mils of primer and in some cases, up to an additional ten (10) mils of topcoat can be visually inspected to the AWS D1.1 acceptance criteria. Those attributes which cannot be fully evaluated are of little or no concern on the structural steel at WCGS."

This letter was submitted to KG&E, and subsequently KG&E discussed the validity of inspections performed with paint on welds with NRC representatives. KG&E Nuclear Plant Engineering reviewed letter BLKES-1348, concurring with the position stated by Bechtel in their letter KNPLKWC 84-065 of November 13, 1984.

Corrective Action 1e)

"Utilize personnel certified to ANSI N45.2.6-1978 for the inspection of safety related structural steel welds. Inspections shall be performed in accordance with the DIC Quality Program and training shall be performed and documented to assure that inspectors are cognizant of the DIC Quality program requirements."

This activity was divided into three elements. The first element required incorporation of the CAR-19 Inspection Verification Plan into DIC Construction Procedure QCP-VII-200, "Inspection of Welding Process". The second element required inspection personnel to be certified in accordance with the DIC certification program and ANSI N45.2.6-1978. The third element defined that the inspectors' site specific qualifications would be limited to the reinspection of structural steel welds in accordance with QCP-VII-200.

The Inspection Verification Plan was developed through the combined efforts of DIC, KG&E, and BPC personnel. Revision 0 was reviewed and approved by KG&E Quality Assurance on 10/19/84. Although Revision 0 to the Inspection Verification Plan in QCP-VII-200 was not issued until 10/19/84, some inspections were performed prior to this date by personnel qualified to accomplish these inspections. The same inspection criteria was utilized in these efforts, and all personnel performing these inspection functions were evaluated to ascertain their qualifications to be concurrent with the later certification requirements for KG&E CAR-19. Further discussion of these personnel is included in this discussion of Corrective Action 1e) on the

following pages. A meeting was held with the Quality Inspection personnel on 10/20/84 to discuss the impact of the Inspection Verification Plan on their activities and to ensure their understanding of the plan. As a result of this meeting, a new revision, Revision 1, was issued to incorporate inspector feedback and KG&E Quality Assurance comments. Revision 1 of the Inspection Verification Plan was then incorporated into DIC Quality Procedure QCP-VII-200 with Procedure Change Notice 014. On 11/2/84 KG&E Quality Assurance, DIC, and BPC personnel held a meeting to address KG&E Quality Assurance concerns on gouges. Subsequently Revision 1 to PCN-014 was issued to incorporate these concerns into the Inspection Verification Plan.

It was decided that all personnel performing inspection verifications under the CAR-19 Inspection Verification Plan should not only be AWS Certified Welding Inspectors, but also be site certified under ANSI N45.2.6-1978.

ANSI N45.2.6-1978, Section 3.5.2 makes the following recommendations for education and experience when certifying Level II personnel:

1. One year of satisfactory performance as a Level I in the corresponding inspection, examination or test category or class, or

2. High School graduation plus three years of related experience in equivalent inspection, examination, or testing activities, or

3. Completion of college level work leading to an Associate Degree in a related discipline plus one year related experience in equivalent inspection, examination, or testing activities, or

4. Four year college graduation plus six months of related experience in equivalent inspection, examination, or testing activities.

When considering the certifiability of candidates, DIC management ensured that all personnel met the recommendations of section 3.5.2, ANSI N45.2.6-1978.

A training program for inspectors was established on 10/17/84. The program consisted of self study material covering the following subjects:

1. Quality Orientation

2. DIC Administrative Procedure AP-VI-02, "Nonconformance Control and Reporting"

3. The KG&E CAR-19 Inspection Verification Plan (PCN-014 to QCP-VII-200)

Additionally, a meeting was held on 10/20/84 with the inspectors to explain the contents of the Inspection Verification Plan, and to answer any questions they might have about the program. In order to ensure the capability of each candidate, a Field Practical Examination was also administered.

Certification files were compiled on each inspection candidate and are available for review in DIC Quality Training. Each file contains a copy of the inspectors resume', a signed copy of the Education/Experience evaluation form, a copy of the inspector's eye examination, the document of certification, the field practical examination, and the letter of recommendation. Additionally there is a training summary documenting the completion of required training and the training conducted on DIC Quality Procedure QCP-VII-200, PCN-14, Revision 0 and Revision 1.

Each certification file was reviewed by the DIC Quality Training Supervisor to ensure all candidates met the recommendations of ANSI N45.2.6-1978. Each file was again reviewed by the DIC Project Quality Manager (DIC's Certifying Authority) prior to the signing of the Document of Certification. The completed certification files were audited by KG&E Quality Assurance with no findings.

Eleven (11) personnel (Inspectors A through K) were involved in Structural Steel Inspection Verification prior to the issuance of KG&E CAR-19. These personnel were attached to DIC Engineering and were qualified, but not certified prior to the issuance of KG&E CAR-19.

In addition to the eleven (11) personnel above, an additional eleven (11) personnel (Inspectors L through V) were involved in Structural Steel Inspection Verification after the issuance of KG&E CAR-19. The certification status is given below:

	INSPECTOR	STATUS
(1)	A	Certified
(2)	B	Certified
(3)	C	Certified
(4)	D	Certified
(5)	E	Certified
(6)	F	Qualified*
(7)	G	Qualified*
(8)	H	Certified
(9)	I	Certified
(10)	J	Certified
(11)	K	Certified
(12)	L	Certified
(13)	M	Certified
(14)	N	Certified
(15)	O	Certified
(16)	P	Certified
(17)	Q	Certified
(18)	R	Certified
(19)	S	Certified
(20)	T	Not Qualified**
(21)	U	Certified
(22)	V	Certified

NOTES:

* Personnel who were involved in Structural Steel Inspection Verification prior to the issuance of KG&E CAR-19, but were not involved in Inspection Verifications after the issuance of KG&E CAR-19 were investigated and qualified, but were not certified as they had already left the site or were assigned to other non-inspection related activities.

** Several attempts were made to verify Inspector T's experience after he left site. DIC Quality Training was unable to verify enough experience to qualify Inspector T's to ANSI N45.2.6-1978. All of Inspector T's work was reinspected by certified personnel.

Corrective Action 1f)

"Perform a 100% reinspection of all structurally significant safety related structural steel welds. The identification of "structurally significant" welds shall be made by the Architect - Engineer."

"Structurally significant" joints were defined by Bechtel as all field welded joints which support or potentially support safety related equipment and building components for the purpose of this Corrective Action activity. This basically included all field welds on structural and miscellaneous steel with the exception of handrail, toeplates, grating, checkered plate, stairs, ladders and monorail supports. These are non-Q items which typically see significant service loads during the construction process. Some are designated as II/I, however, II/I seismic loads are considered to be less severe than service loads. Monorails have been load tested as part of startup procedures, and were therefore not included in the scope of structurally significant items requiring reinspection. The joints were selected by Bechtel based on a review of erection drawings prepared by the structural and miscellaneous steel fabricators and a review of Field Change Request (FCR's), Nonconformance Reports (NCR's), Construction Variance Requests (CVR's) and Structural Steel Fabrication Requests determined applicable.

The DIC Nonconformance program, as defined in DIC Construction Procedure AP-VI-02, "Nonconformance Control and Reporting", was utilized to obtain and document a suitability for service evaluation of welds that were inaccessible due to physical location or embedment in concrete. All deficiencies identified during reinspection activities performed in accordance with Procedure Change Notice - 014 to DIC Construction Procedure QCP-VII-200 were identified on nonconformance reports for further dispositioning and resolution.

Bechtel performed a case by case evaluation of each structurally significant joint inspected according to the data furnished on Inspection Data Sheets and nonconformance reports. Their evaluation provided a determination of whether each structurally significant joint's as-built condition met design allowables, whether the as-built condition was a significant deficiency in accordance with 10 CFR 50.55(e), and whether any rework or repair to each joint was required.

The following is a statistical summary of the evaluation completed by Bechtel on all structurally significant joints:

TOTAL AWS WELDING

INSPECTIONS AND ENGINEERING EVALUATIONS

BUILDING	TOTAL JOINTS	JOINTS INSPECTED	JOINTS EVALUATED	JOINTS REQUIRING REWORK (1)	ADDITIONAL JOINTS TO BE REWORKED (2)	SIGNIFICANTLY DEFICIENT JOINTS (10CFR50.55(e))
AUXILIARY	694	694	694	8	40	0
REACTOR	1300	1300	1300	69	10	0
CONTROL	265	265	265	3	14	0
DIESEL GENERATOR	98	98	98	2	1	0
FUEL	277	277	277	0	2	0
ESWS PUMPHOUSE	36	36	36	0	0	0
TOTAL	2670	2670	2670	82	67	0

(1) DESIGN ALLOWABLE STRESSES ARE EXCEEDED IN THE AS-BUILT CONDITION

(2) DESIGN ALLOWABLE STRESSES ARE NOT EXCEEDED IN THE AS-BUILT CONDITION. THESE JOINTS ARE BEING REWORKED PER KG&E MANAGEMENT DIRECTION TO INSTALL MISSING AND UNDERLENGTH WELDS UNLESS PROHIBITED BY FIELD CONDITIONS.

Finding #2 of KG&E CAR-19 stated, "An Inspection Verification effort of safety related structural steel welding, undertaken by AWS certified weld inspectors identified several areas of deficiencies. These deficiencies are categorized as: undersized welds, weld defects, incorrect configuration, weld underrun, and weld undercut."

One (1) corrective action was determined to be appropriate for resolution of this finding, although this primary corrective action was subdivided into seven (7) research/data accumulation activities.

Corrective Action 2a)

"Determine and document the "root cause" of the previous acceptance of deficient structural welds. Analyze the HVAC Support, Electrical Support, Pipe-Whip Restraint and any other safety-related program utilizing AWS D1.1 Welding to ensure that the same "root causes" inherent in the structural steel welding program were not generic to other programs."

This summary reviews activities 2a-1 through 2a-7 of CAR-19 to determine the root cause of the previous acceptance of deficient structural welds and analyzes those root causes to determine if they were inherent to other safety-related programs utilizing AWS D1.1 welding.

A review of DIC Quality procedures was performed by Quality Engineering to determine if any historical procedural inadequacies could have been a contributor to "root cause". Although some historical deficiencies in inspection criteria were found to have existed, research demonstrated that some of the procedural inadequacies occurred after the vast majority of structural steel erection activities had been completed. Interviews with a sample of Quality Inspectors revealed that inspectors were cognizant of the omission of two other criterion (lack of fusion and cracks) during an applicable time frame, but inspected for these deficiencies in spite of their omission. Based upon this cumulative research procedural weld inspection inadequacies are not considered to be contributors to "root cause" of previous acceptance of deficient structural welds.

DIC Inspection training and certification procedure AP-VI-01 was used to train and certify Quality inspection personnel during the structural steel erection time frame. This procedure was analyzed to verify compliance to ANSI N45.2.6-1978, and was found to be in accordance with ANSI requirements. An evaluation of ANSI N45.2.6 requirements revealed that DIC procedure AP-VI-01 was in full compliance to ANSI requirements for the structural steel erection time frame and through all subsequent revisions to date.

The "root cause" of the previous acceptance of deficient structural welds has been determined to be due to inspection implementation and inadequate implementation of related procedures. Each of these contributing factors has several facets that are considered to be partial reasons for "root cause".

Differences in inspection techniques and consideration of inspection attributes for the original inspection time frame vs. the CAR-19 reinspection time frame are definite root cause contributors. The differences indicated are common to the nuclear construction industry and have been recognized as prevalent at many projects. A white paper documentary prepared by recognized nuclear construction consultants Reedy, Herbert, Gibbons and Associates, Inc. dated August 11, 1983, clearly defines the subject differences during their in-depth analysis of weld inspection on nuclear sites. (See Appendix IV.G)

The differences cited, inspection technique and inspection attributes, are addressed in section I of this white paper, "Continuous Measurement of Fillet Welds". The paper states that until about 1980 accepted inspection practice did not entail 100% physical measurement of each inch of welding, but rather depended upon individual inspector's evaluation of the weld's acceptability. Around 1980 QA/QC Inspectors began using fillet weld gauges to measure each inch of fillet weld to verify that the specified minimum weld size was met for the continuous length of weld. This physical measurement gradually replaced the previous accepted practice of visual judgement. The paper concludes that there has been a progression of the practice of physically measuring each inch of weld to a serious extreme.

The documentary cites that there is no requirement either in the ASME Section III Code or AWS D1.1 Standard to continuously measure the full length of fillet welds. Both ASME and AWS permit deviations from minimum size fillets as documented in ASME NB/NC/ND - 4427 and paragraphs 8.15.1.7 and 9.25.1.7 of AWS D1.1. The paper further contends that inspections can and should be made on a random basis to determine nominal sizes with no detriment to safety. Additional sections of this documentary address "Undercut Provisions of AWS D1.1" and "Encroachment on Minimum Thickness" with similar conclusions.

DIC research has shown that the inspection technique implemented during erection/inspection of structural steel at Wolf Creek was in accordance with common industry practice as stated in the previously referenced documentary. Inspectors were of the understanding that visual judgement was acceptable as an inspection technique in checking for nominal weld size, and that visual evaluation rather than 100% physical measurement of fillet welds was acceptable for assuring that welds met visual inspection attributes.

Given these considerations, one should expect a reinspection program using current applicable techniques to find deficiencies in welds previously accepted. The reinspection technique is one of 100% physical measurement of all attributes applicable rather than the visual judgement initially employed as acceptable during the structural steel erection time frame.

With the previous considerations in mind, an examination of the weld deficiencies identified during reinspection and their relative significance to the overall integrity of the initial inspection effort is in order.

The scope of the CAR-19 reinspection effort identified two thousand six hundred seventy (2,670) joints requiring reinspection. Of the two thousand six hundred seventy (2,670) total joints, two thousand eight hundred seventy (2,870) welds exhibited discrepancies of the more than eleven thousand (11,000) welds reinspected according to procedure QCP-VII-200, Procedure Change Notice 14. Each weld reinspected could have potentially contained five (5) categories of deficiencies according to the method utilized for tracking during the CAR-19 program, those being: undersize, defects (cracks, lack of fusion, incomplete penetration, overlap, slag inclusions, porosity, craters), underrun, undercut and configuration. Of the two thousand six hundred seventy (2,670) structural joints inspected, the following quantities of weld deficiencies were noted by category: 1,061 undersize, 330 defects, 476 underrun, 107 undercut, and 1,562 configuration.

The quantities of deficiencies noted for the three categories following are minor based upon a percentage comparison to the total number of welds reinspected. The approximate percentages for each of these three categories are, underrun 4%, undercut 1%, defects 3%. These percentages are within expectations considering reinspection emphasis and the previously noted differences in inspection technique and accepted inspection practice. Further statistical analysis revealed a majority (more than 60%) of the welds rejected for undercut discrepancies to be in excess of the 1/32" allowable undercut criterion by less than 1/16". A majority (approximately 60%) of the welds found to be underrun were underrun by less than 1/2". An analysis of the attributes contained within the 'defect' category revealed only small quantities in each. Based on the above statistical analysis , the discrepancies identified in the categories of underrun, undercut and defects are not considered to be contributors to the root cause that previously accepted welds were found deficient upon reinspection.

The quantity of welds rejected that did not meet the minimum leg size as specified on the design document, or exceeded the code allowable 1/16 inch undersize for less than 10% of the length of the weld, represents a percentage of 9% deficiencies for the total welds inspected. Discussions with DIC inspection personnel and Quality Management aware of approved inspection practices utilized during the structural steel erection time frame indicated that inspection methods were similar for this period to

those described in the previously addressed documentary by Reedy, Herbert, Gibbons and Associates, Inc. Of the welds identified as being undersize, more than 90% were undersize by less than 1/8", further substantiating that inspection methods were as previously described. Based on the above evaluation, the quantity of deficient welds identified as being undersize is considered an indicator that previously accepted inspection techniques was the root cause of previously accepted welds being found deficient upon reinspection.

The quantity of welds identified during reinspection exhibiting configuration deficiencies represented 13% of all deficiencies for the total welds inspected. Of the total number of deficiencies, more than 80% were revealed by research to be directly attributable to one design change implemented in February, 1978. This Design Change Notice C0011, Rev. 7, dated February 23, 1978, changed detail 10 on drawing C0011 to limit the length of the return welds on beam clip angle to embed plate welds. The significant number of discrepancies identified in this category indicates that the design change was not given sufficient emphasis by DIC Engineering, craft, and Quality Inspection to enable deviations from this requirement to be adequately controlled. This category is the largest single contributor to "root cause" of previously accepted deficient structural welds. Bechtel, as the Architect Engineer, performed an evaluation of all welds reinspected to determine which welds were acceptable from a technical viewpoint relative to allowable stress calculations and which welds would require rework in order to meet this criterion. From this evaluation 2589 joints were determined to be technically acceptable whereas 82 required rework. These statistics, revealing that 97% of the joints reinspected were technically acceptable, are indicative that the relative degree of significance of the deficiencies identified due to reinspection is minor.

Those areas utilizing AWS D1.1 welding other than structural steel were identified as: Pipe whip restraints; miscellaneous steel and embedment fabrications; fire dampers and safety-related ductwork and supports; electrical raceway supports; electrical equipment installation; and stud welding.

Previously compiled information including Construction Self Assessment Reports, KG&E QA Reports and Surveillances, DIC QA Reports, DIC Project Monitoring Program audits, DIC Corrective Action Reports and correspondence was reviewed to determine results of previous investigations of AWS D1.1 welding. No findings were noted during this review that could be considered contributing factors to root cause. Electrical II/I support welds were reinspected by Bechtel (ELKC: 009) through the "Sampling and Inspection Program for Electrical Support Welds" (7/84). Three hundred nine (309) were inspected and found acceptable. Electrical Quality Welding Inspectors performed inspections on Class IE support welds raceway (8/82). Pipe whip restraint welds were 100% nondestructively tested. HVAC ductwork support welds were 100% reinspected through implementation of DIC Corrective Action Report CAR-1-M-0012 and a traveler system was initiated to maintain better control and accountability (3/82-1/83).

Programmatic elements utilized in the inspection and documentation of the various applications of AWS D1.1 welding differed depending upon the Quality discipline responsible for inspection activities. The following methods were utilized in the applications noted to provide inspection documentation:

a) Raceway Supports - Raceway Support Checklist

b) Electrical Equipment - Quality Equipment Mounting Checklist in addition to MSSWR's

c) Fire dampers and safety-related ductwork and supports - Mechanical Travelers

d) Miscellaneous steel and embed fabrication - MSSWR's

e) Stud welding to embeds - Surveillance Reports

f) Pipe Whip Restraints - MSSWR's in addition to Nondestructive Examination Reports

All the methods utilized above were effective in providing inspection assurance and documentation of the respective activities when properly implemented. The travelers utilized as well as the other checklists noted provided a closed loop system where individual accountability for a weld was required, controlled, and documentation verified accurate and complete by Quality personnel. Conversely Miscellaneous Structural Steel Weld Records (MSSWR's) were used in an open-ended system for Main Frame Structural Steel Installations where craft construction personnel were responsible for control, maintenance and processing of this record following its completion. This system proved less than satisfactory in some applications, resulting in document retrievability problems that have been addressed by DIC and KG&E Corrective Action Reports.

In summary the programmatic elements as described in DIC procedures for each application of AWS D1.1 welding are adequate when properly implemented by the persons responsible for those activities. MSSWR's utilized in documenting structural steel weld connections were the subject of inadequate implementation of procedural requirements, resulting in the problems being addressed in this report. The research accomplished in completion of this activity revealed no inherent "root cause" generic to all programs utilizing AWS D1.1 welding, but rather indicates that the root cause of the previous acceptance of deficient structural welds was as delineated earlier in this section.

Finding #3 to CAR-19 stated, "A small number of safety related structural steel welds were not made or had missing material."

Corrective Action 3a)

"Forward the "as-built" information to the Architect/Engineer via an NCR to obtain an engineering evaluation and disposition".

All missing welds or missing material detected in the reinspections performed were documented on nonconformance reports reflecting the as-built condition found by inspectors. Of the two thousand six hundred seventy (2,670) joints reinspected (more than 11,000 welds) only two hundred seventy-three (273) welds were identified as missing where the applicable design drawing required their installation. Of the two hundred seventy-three

welds not installed, one hundred twenty (120) were applicable to the polar crane girder radial stops (44%), ninety-seven (97) were due to beam seats not installed (36%), eighteen (18) were due to missing welds on six (6) pressurizer support welds (7.0%), and the remainder (38) due to missing welds on clip to beam or plate installations (13%).

Under the purview of KG&E Construction, a detailed investigation was undertaken by DIC Engineering and Management personnel to determine the root causes of missing welds and materials in each case. Significant points of that investigation included: grouping of missing welds/materials into categories to aid in research; compilation of factual data and analysis for trends/patterns; a thorough review of all applicable design change documents that may have deleted some of the items in question; visual examinations of the areas where installations should have been made; and interviews with craftsmen, craft supervision, DIC Engineering and Quality personnel for information that may have added to root causes.

Missing welds and materials were grouped into categories based on similarities that could be determined to exist in function or construction sequence. Five groups were defined, those being: beam seats and attachment welds, pressurizer support welds, Polar Crane girder radial stop welds, miscellaneous materials and associated welds, and beam to channel clip welds (for one application only). Each of these groups is discussed in detail in the following paragraphs in presenting the respective data accumulated and the conclusions drawn.

Beam seat installation welds accounted for ninety-seven (97) of the missing welds identified. Upon investigation several reasons were found as contributing factors to the root cause of failure to install beam seats as required. All beam seat connections in question were relevant to installation detail 10 on drawing C0011, which gave no required weld size, but referenced note 14. Note 14 stated, "When end reaction exceeds maximum weld size capacity provide seat angle." Discussions with personnel available who were involved with structural steel installations revealed that this note may have been incorrectly interpreted as an 'option' for beam seat installation. This resulted in a craft opinion that the beam seat was intended as a construction aid to be used only during the erection process and then removed. This contention is supported by the fact that ninety-three percent (93%) of the areas/records examined pertaining to beam seat installation revealed that the beam seats were installed prior to the beam's installation. Seventy-two percent (72%) of the embed plates investigated showed evidence of temporary welds made to attach a beam seat as a construction aid during the erection sequence, but the beam seats were not found installed upon field investigation. A majority of the beam seat associated welds missing were the beam seat to beam welds, which further indicates the questionable beam seats were tack-welded to the embed, used as a construction aid, then removed prior to welding to the beam. These above factors substantiate that the root cause of missing beam seat welds (i.e., beam seats not installed) was due to a misunderstanding of the beam seats' intended application as a permanent installation. This root cause conclusion is supported by the data accumulated and discussed in the preceding paragraphs. All missing beam seats and their respective required welds were installed as a part of KG&E and DIC Management's direction, unless prohibited by field conditions.

The missing pressurizer support welds totaled eighteen (18) welds on six (6) supports. The six (6) supports with missing welds are all of the upper supports for the pressurizer beam foundation, and all six (6) supports were found to be welded identically to each other. One inspector performed all final visual inspections of the pressurizer supports, indicating a possibility of human error being a contributor to root cause. Investigation results indicated a misinterpretation of erection details and requirements as the primary root cause of the eighteen (18) missing welds. Twenty-four (24) welds not detailed as required installations were added but not required by design drawings. The conclusion reached for root cause of the missing welds on the pressurizer supports is that DIC construction craft and Quality personnel misinterpreted the installation details and applied this misinterpretation consistently in the construction and inspection of all six supports. Nonconformance report 1SN 20509CW was generated to document these circumstances and all missing welds were installed as a part of the disposition, unless prohibited by field conditions.

The Polar Crane girder radial stops were the subject of one hundred twenty (120) missing welds. These missing welds are documented on nonconformance reports 1SN 21308CW, 1SN 21309CW, 1SN 21310CW and 1SN 21311CW. Facts gathered during the investigation of these missing welds indicate that a series of drawing revisions and misinterpretation of erection installation details resulted in DIC construction error in not making all required welds on sixty (60) radial stops. The appropriate facts are as follows:

- American Bridge Drawing E117 (C-121-8360) was revised concerning the radial stop connection. Two of the three revisions to section A were attempts to clarify the desired weld configuration at the radial stops.

- Revision B to American Bridge drawing E117 was produced to clarify where actual welds were expected.

- Revision C of Drawing E117 in part added "one side only" to the inner "C" portion of the radial stop welds.

- Bechtel Drawing C-0S2963 concerning the polar crane girder radial stop welds was altered at Revision 6 to note on Section A that the weld on the inner "C" indention was to be made on one side only.

- The MSSWR's documenting the radial stop welds made indicate erection during 2/80-3/80, before American Bridge drawing E117 clarified the installation detail on Revision E, dated 12/80.

Upon reinspection NCR #1SN 21196CW was initiated describing the deficiency in nonexistent radial stop welds. The NCR was voided in-process by the CAR-19 Inspection Supervisor due to a misinterpretation of requirements according to details on the American Bridge drawing E117, that seemed to indicate a weld installation detail requirement concurrent with the actual welds found installed during reinspection. Based upon the preceding facts, it is concluded that the root cause of missing Polar Crane girder radial stop welds is due to unclear weld detail installation requirements as projected on the American Bridge drawing E-117, and subsequent incorrect interpretation of weld installation requirements by DIC personnel.

The missing welds identified for installations involving other miscellaneous materials and welds missing are of a smaller quantity. Thorough investigation revealed the root cause of these missing welds to be due to a lack of formal follow-up and inadequate statuses of completed work and the subsequent completion of unfinished work. The missing welds on the Incore tubing supports revealed that all investigatory information supports the hypothesis that these missing welds were not installed due to oversite. The four lateral support brackets, two at each of the vertical angle supports (Incore tubing supports) located 32' - 2 3/4" north of the Reactor Center Line and 4' 10" east and west (one each direction) of Reactor Center Line on Drawing GOS2919 were added by revision to drawing GOS2924 after the supports had been presumed completed.

Nonconformance report 1SN 21273CW documents missing welds on channel clips to beam attachments. The channels that American Bridge Drawing #C121-10675 shows welded to a beam web along A2 at Elevation 2042' are bolted instead. The channel clips are bolted to the web using the same bolts as removable beams on the opposite side of the web. Research found that the installation of the channel and removable beam was late in the construction sequence of this area, also. Since the channel clips and removable beam clips are bolted through a beam web with the same bolts, the channel clip attachment welds were probably assumed to be unnecessary by the construction personnel responsible for installation.

If the removable beams had been disconnected for the purpose of construction, it would have become necessary to weld the channel clips to the beam web at that time. The beams and channel in question were installed late in the construction sequence of the area, removal of the beams never became mandatory, the welds were not a recognized priority and were never installed as required. The root cause of these missing welds is due to DIC error in assuming the bolted connections were acceptable rather than the required welds. In the miscellaneous group, investigations revealed that welds or material found missing were those welds or materials that would not impede construction progress related to that connection.

Finding #4 to CAR-19 stated, "One (1) weld was documented as having been inspected when in reality the weld was not made. (Ref. NCR 1SN 20495CW)."

Corrective Action 4a)

"Investigate the concern to determine the root cause of the error. Immediately notify KG&E Quality Assurance if any other problems of this nature are identified. Document the investigative actions. The notification of KG&E QA shall not preclude the issuance of an NCR."

The results of the CAR-19 inspection effort were tracked and each case where a missing weld or missing material was identified was researched thoroughly by DIC Engineering to determine whether documentation existed pertinent to the installation of the missing weld/material. Miscellaneous Structural Steel Weld Records (MSSWR's) were reviewed to determine if a trend or pattern existed. Nonconformance reports identifying missing welds were compared to MSSWR's to determine if there were repetitive occurrences.

Applicable drawings were reviewed for similarities in beam numbers, floor layout and beams at similar locations in an attempt to further identify possible sources of confusion. As a result of the investigations conducted only two (2) cases were identified where inspection documentation existed for welds not installed.

The first case is the installation of beam No. 524B2 and its connection to an embed in the Auxiliary Building. All available information indicates that DIC Quality Inspector W made a human error when documenting the inspection of this beam connection. A review of the drawings shows that the beam configuration and floor layout in the area (elevator shaft and equipment hatch) directly beneath the beam connection in question are very similar. In addition, the beam below beam 524B2 connects at the same building coordinates.

It is possible that Inspector W could have been one elevation beneath where he should have been when inspecting the connection. Out of the multiple welds inspected by Inspector W this problem occurred only once. If actions which would result in other conclusions had occurred, it would be reasonable to assume that they would have occurred repeatedly. Inspector W's signature appears on over eight hundred (800) MSSWR's. Each MSSWR could document multiple weld inspections, therefore, Inspector W very likely inspected over one thousand (1,000) structural steel welds, with the result that this type of problem occurred once. A telephone conversation between Inspector W and DIC management personnel concerning this incident revealed no information that Inspector W could offer, since he could not recall the specific connection from the more than eight hundred (800) he inspected. The root cause conclusion in this case is human error.

The second case is the installation of beam No. 95B5 to an embed in the Control Building. All available information suggests that DIC Quality Inspector X made a human error when documenting the inspection of this beam connection. The MSSWR documenting this connection shows Inspector X's confusion in that he entered the joint number incorrectly when filling out this portion of the MSSWR, then lined through, initialed and dated his error, and entered what he thought was a correct entry. Drawing K6711-XI-I-E13 details this connection, but is unclear in that it does not designate the connection number for the beam clip to embed weld, and only lists the beam seat number (91M1).

Further research revealed that Inspector X completed one hundred eighty-three (183) MSSWR's during his tenure on site, but only six (6) of these MSSWR's were related to structural steel weld inspections. This is indicative that Inspector X was possibly confused by the details on the erection drawing. It is probable that Inspector X attempted to document the welds attaching the beam clips to beam 95B5, since no retrievable MSSWR is on file for these welds. These circumstances are documented on nonconformance report 1SN 20798CW for disposition and resolution. The root cause conclusion in this case is human error.

Finding #5 of CAR-19 stated, "Objective evidence that the mechanical and structural inspection/documentation problems identified in KG&E QA Surveillance Report S-372 were rectified has not been provided."

Corrective Action 5a)

"Provide objective evidence that the mechanical and structural support welding inspection/documentation problems identified in Surveillance Report S-372 have been corrected. If such evidence is not available, research the extent of the problem and take the appropriate remedial actions." Activity 5a was broken down into two categories. 5a-1 was to review and provide objective evidence that Mechanical Deficiency Reports identified in S-372 have been correctly closed out. 5a-2 was to review and provide objective evidence that Civil Deficiency Reports identified in S-372 have been correctly closed out.

A total of forty-two deficiency reports were reviewed encompassing the departments of Civil, Civil/Welding, Mechanical, and Mechanical/Welding which are identified in S-372. Below is a brief description of the closure to each Deficiency Report (DR). (Deficiency Reports underlined.)

1. 6451 was upgraded to an NCR (1NN 4969CW) because all welds were encapsulated in concrete and deemed structurally acceptable by the A/E.

2. 6536 and 6538 were "Close in Process" because the hangers were "VOIDED"; hangers were removed mechanically, and Quality inspected the area to insure soundness of the affected structure.

3. 6559, 6557, 6560, 6568 pertained to electrical raceway hangers. DIC Mechanical/Welding inspectors performed inspections to ensure the soundness of the removal area after cut down, according to DR disposition. The reinstallation of these hangers was inspected by DIC Electrical Quality Inspectors and documented on Electrical Quality Raceway Support Checklists.

4. 6535, 6537, 6539, 6576, 6575, had dispositions calling for cut down of hangers only, therefore only the verification for the inspection of the soundness of the removal area was required.

5. 6585 disposition was "Close in Process" because no hanger could be located in the area called for by the Deficiency Report. The two closest hangers have the required documentation and their respective documentation is attached to the Deficiency Report.

6. 6249, 6250, and 6349 have MSSWR's to reflect proper closure, but the hangers are now voided. Based on this research an inspection of the applicable Building, Location, and Area (BLA) for these hangers was initiated and the hangers were verified as cut down.

7. The remaining Deficiency Reports have MSSWR's attached to reflect the proper documentation for the safety-related attachment welds. This group of Deficiency Reports numbers 26 total.

No violations of 10 CFR 50 Appendix B exist in Items 1 thru 5 as defined in the criteria of KG&E Surveillance S-372. The violations listed in S-372 pertained to welding documentation on Structural Steel. The dispositions for the deficiency reports in items 2 thru 4 require the removal of deficient welds. In some cases MSSWR's were used to document the removal so these MSSWR's show blanks (or as non-applicable) for W-100, weld technique, filler material, etc. These should not be mistaken for incomplete MSSWR's for required welding, since MSSWR's are not required for this activity.

In summary, all deficiency reports in KG&E Surveillance S-372, have been reviewed and proper closure verified. All the deficiency reports were closed properly according to the results of our investigation.

DEFICIENCY REPORT #

6248	6454	6557	6568
6249	6455	6558	6569
6250	6456	6559	6570
6280	6457	6560	6571
6349	6535	6561	6572
6449	6536	6562	6573
6450	6537	6564	6574
6451	6538	6565	6575
6452	6539	6566	6576
6453	6556	6567	6577
			6585
			6588

V. Conclusions

The technical evaluation of WCGS structural steel significant joints, which was performed by Bechtel based upon reinspection data accumulated, established that safety related AWS D1.1 structural steel welding complies with all Quality criteria as specified in the related design documents, and is within the tolerances of acceptable deviation as determined by the Architect/Engineer. This evaluation for structural integrity was based upon this cumulative data that reflected the as-built condition of Bechtel identified structurally significant joints prior to any rework or repairs.

Two thousand six hundred seventy (2,670) structurally significant joints were identified by Bechtel and were subsequently reinspected by DIC Certified Quality Inspectors who were all also AWS certified Welding Inspectors. Eighty-two (82) of these significant joints required rework due to design allowable stresses being exceeded in the as-built condition. None of the structurally significant joints where discrepancies were identified would have failed if left uncorrected.

Research accomplished by DIC and Bechtel personnel resolved that DIC welders and welding procedures applicable to AWS D1.1-1975 welding of structural steel installations were satisfactorily qualified in accordance with AWS requirements. Additional research resulted in assurance that programs and procedures applicable to the purchase and control of weld filler materials used in AWS D1.1 applications were in compliance to AWS requirements. Investigations into site implementation of these requirements and procedures provided assurance that implementation had been effective and properly controlled by DIC during project construction activities.

The retrievability and control of Miscellaneous Structural Steel Weld Records (MSSWR's) was investigated, and a determination made that inadequate implementation of DIC construction procedures was a contributing factor to retrievability and accountability problems with MSSWR's relative to structural steel applications. Thorough analysis of each applicable program was undertaken by DIC Quality Engineerning to determine if similar programmatic or procedural requirements existed, and whether inadequate implementation had resulted in similar deficiencies. The results of these assessments determined that no programmatic problems existed in any other AWS D1.1 application relative to inspection documentation required for weld inspections. Evaluations of each application identified that more efficient documentation methods were utilized, and in each case there was more effective control of the required documentation through its initiation and processing cycles. Review of Quality Assurance historical audits and surveillances and an evaluation of procedural implementation adequacy further assured no problems existed in any other AWS D1.1 application similar to the MSSWR retrievability problem on structural steel welding.

Hardware applications of AWS D1.1-1975 requirements were also analyzed to determine if the root causes applicable to the previous acceptance of deficient structural steel welds were of potential impact in applications other than structural steel. Reinspection and Corrective Action reports existed in every case to ensure the acceptability of installed hardware where AWS D1.1 welding was utilized except in Electrical Equipment foundation welds. DIC Management determined that a subsequent investigatory effort was necessary to provide data to ascertain the possible existence of deficiencies in welding and shimming in these installations. DIC Corrective Action Report 1-EW-0046 was initiated to document and accomplish these activities.

DIC Corrective Action Reports (CAR) 1-W-0029 and 1-C-0031 were evaluated to determine why neither of these documents resulted in the appropriate identification and effective resolution of structural steel welding and documentation problems prior to KG&E Corrective Action Request 19. CAR 1-W-0029 was found to be effective for the scope of welds identified. A conclusion was reached, however, that if a larger sample size had been utilized for CAR 1-W-0029's scope of inspection activities, that corrective action concurrent with that identified for KG&E CAR-19 may have been decided appropriate as resolution for the identified problems.

With the generation of DIC CAR 1-C-0031 DIC Management recognized that documentation did not exist for all structural steel welds as procedurally required, and nonconformance reports were generated to document these inadequacies. 'Use-As-Is' dispositions were assigned to these nonconformance reports based upon the existence of defined programs and procedures that required 100% inspection and documentation of structural steel welding activities. An assumption was made that although required documentation was not 100% retrievable, the programs in place during structural steel installation/inspection activities did result in all installations being completed and inspected.

Neither CAR 1-W-0029 nor CAR 1-C-0031 required matching of MSSWR's to structural steel welds or welded connections. If this had been a required corrective action for either CAR, the problems identified in portions of KG&E CAR-19 would have been realized.

The findings addressed in CAR-19 in addition to missing MSSWR's included deficiencies identified in previously accepted structural steel welds, missing structural welds or missing structural material, and documentation that a weld was inspected and accepted, but no weld was installed.

An evaluation of the DIC Quality inspection training program demonstrated that this program and related procedures were in compliance to ANSI N45.2.6. Further investigation concluded that Quality inspection training was appropriate and adequate during the structural steel installation time frame. An evaluation of DIC Quality inspection procedures and criteria applicable to the original structural steel installation/inspection period revealed several procedural inadequacies. A thorough analysis of the omission of each inspection criterion of AWS D1.1 structural steel applications was accomplished, with the conclusion that no adverse impact had resulted from these procedural inadequacies relative to AWS D1.1 welding inspection.

Inspection criteria to be used in the structural steel reinspection activities was procedurally defined and training of all personnel completed prior to reinspection initiation. Sufficient technical justification was established by Bechtel to validate inspection of welds through a predetermined maximum thickness of paint. An analysis of reinspection results determined the root cause of the previous acceptance of deficient structural welds to be due to DIC inspection implementation differences relative to inspection vs. reinspection techniques, and inadequate implementation of applicable DIC procedures.

Two (2) of the welds on joints reinspected were initially thought to be documented as being installed when in reality they were not installed. Research revealed no evidence to indicate that either was a case of deliberate falsification. Additional investigations resulted in a conclusion that human error was the cause of incorrectly documenting these nonexistent installations.

Reinspection found that some welds and materials were not installed as required by design documents. These errors were primarily due to craft/engineering errors relative to misunderstanding of installation drawing details and requirements. Failure to install these welds and materials, although in some cases determined to be significant in impact to design stress allowable calculations, would not have resulted in material or structural failure if left uncorrected. All missing welds will be reworked in accordance with KG&E Management's direction, unless prohibited by field conditions.

As a result of those concerns identified in KG&E CAR-19, DIC conducted an assessment of the programmatic aspects of the Piping, Hanger, Mechanical, Electrical and Civil disciplines to ascertain the adequacy of those programs instituted in the construction of Wolf Creek Generating Station. Other than the concern identified in DIC CAR 1-EW-0046 the program assessment has established a high degree of confidence in the adequacy of the overall DIC Construction program to assure compliance with 10CFR50, ANSI N45.2, FSAR, design and procedural requirements. The cause of the adverse conditions identified in KG&E CAR-19 and DIC CAR 1-EW-0046 is limited to these areas in that all other areas of work which would have been rendered inadequate or suspect due to the identified root cause have been adequately addressed through subsequent means such as retrofit or reinspection programs.

After completion of the program assessment, which addresses all aspects of the DIC Construction programs in total, and as they might have been affected by the identified root cause of deficient structural steel welds, it is the conclusion of this assessment that all significant problems have been identified and are being adequately addressed and resolved through appropriate corrective actions.

This program assessment is included in the Appendix, section VI.H of the KG&E CAR-19 Final Report, and has concluded that a satisfactory level of confidence exists to assure compliance with 10CFR50, ANSI N45.2, the FSAR, and Design and Procedural requirements.

The objective of KG&E CAR-19 was to establish by review of Construction and Quality programs, as-built conditions, nonconformance identification and correction and by design evaluation and/or rework, that all structural steel erection commitments in the Wolf Creek Final Safety Analysis Report were satisfied. Through the cumulative efforts in the resolution of CAR-19 assurance was obtained that all significant Quality criteria as specified in the related design documents were satisfied, within the tolerances of acceptable deviations as determined by the Architect/Engineer.

ATTACHMENT B

REVISION ONE

TO THE

FINAL REPORT

ON THE

EVALUATION OF AWS FIELD WELDING

ON STRUCTURAL AND MISCELLANEOUS STEEL

AT THE

WOLF CREEK GENERATING STATION

BECHTEL POWER CORPORATION

GAITHERSBURG, MARYLAND

JANUARY 19, 1985

Prepared by:
Gerald Brown

WOLF CREEK

AWS WELDING EVALUATION REPORT

INDEX

ATTACHMENT

Westinghouse Electric Corporation Letter SNP(KG)-503,
J. W. Irons and L. R. Benson to J. A. Bailey,
dated October 1, 1984

TABLES

APPENDICES

WOLF CREEK

AWS WELDING EVALUATION REPORT

I. INTRODUCTION

On September 18, 1984, a reinspection of structurally significant AWS field welded joints (identified by Bechtel Power Corporation) was initiated at the Wolf Creek Generating Station by Kansas Gas and Electric (KG&E) Project Management. The reinspection was initiated to address concerns regarding AWS field welding as described in KG&E Corrective Action Report (CAR) 19.

The scope of the initial reinspection involved 6 structurally significant field welded joints in each of the 6 safety related buildings: Auxiliary Building, Reactor Building, Control Building, Diesel Generator Building, Fuel Building and Essential Service Water System (ESWS) Pumphouse. The results of this initial reinspection identified two missing welds (one weld on a pressurizer support in the Reactor Building, and one clip angle weld on a beam support in the Auxiliary Building), and various other deviations from AWS D1.1-75 welding requirements as described in this report.

As part of the evaluation of AWS field welding, Kansas Gas and Electric Project Management also initiated a separate reinspection of joints in the Reactor Building which had missing weld inspection records, i.e. Miscellaneous/Structural Steel Weld Records (MSSWR). This reinspection identified missing welds on the containment cooler supports, missing brackets on the incore instrumentation supports and missing flange tie plates. A potential significant deficiency was reported to NRC Region IV on September 18, 1984 in accordance with the requirements of 10CFR50.55(e).

As a result of the findings of these two reinspections, the program to reinspect structurally significant field-welded joints was expanded to include all such joints in the six safety related buildings at Wolf Creek. This report documents Bechtel's involvement in this program, which included the selection of joints to be reinspected and the structural evaluation of the as-built condition of the joints as described in the reinspection reports generated by DIC. The results of the evaluation did not identify any significant deficiencies in accordance with 10CFR50.55(e).

II. JOINT SELECTION

A. General

The joints included in the reinspection and evaluation program are all structurally significant, AWS field welded joints, which:

1) support or potentially support safety related equipment and building components,
2) are located in the Reactor Building, Auxiliary Building, Control Building, Diesel Generator Building, Fuel Building or Essential Service Water System Pumphouse,
3) were installed under the structural steel erection contract (Bechtel Specification 10466-C122) or the miscellaneous steel erection contract (Bechtel Specification 10466-C132), and
4) were originally inspected under the Daniel International Corporation (DIC) "Miscellaneous/Structural Steel Weld Records" (MSSWR) Inspection Program.

For the purpose of this reinspection program, a joint is defined as the connection between two structural members. A joint may contain more than one weld, or a combination of welds and bolts. A joint may also be referred to as a connection.

AWS field welds for the following items were not considered to be structurally significant:

1) handrails
2) toeplates
3) grating
4) checkered plate
5) stair towers
6) ladders
7) monorails
8) temporary construction welds
9) temporary decking supports
10) plug welds in unused bolt holes
11) cask loading pit hatch covers
12) cask washdown pit hatch covers
13) Reactor Building bracket shims
14) Embedded beam to seat welds

A total of 2670 structurally significant joints were identified for reinspection. Appendix A identifies these joints and provides information on their locations, the nonconformance reports (NCR) on which any welding deviations from AWS D1.1 are documented, and a cross-reference to Bechtel engineering evaluations.

Most of the structurally significant joints were identified on the structural steel (American Bridge Company) and miscellaneous steel (Cives Steel Company) erection detail and field work drawings, and on Bechtel detail drawings (C-OX Drawing Series). Appendix B lists the drawings which were

reviewed in order to identify the structurally significant joints and indicates those drawings on which joints were identified. In addition, DIC reviewed field generated nonconformance reports (NCRs), field change requests (FCRs) and field fabrication requests. Those documents identified field welds which DIC considered to have a potential structural significance and were provided to Bechtel for review. Structurally significant joints identified by Bechtel on these documents were also included in the reinspection program. A listing of the documents submitted to Bechtel is included in Appendix C of this report.

B. Perspective on Field Welded Joints

In order to provide a perspective on the reinspection of field welded joints, Bechtel engineering made an independent count of the various joint types (i.e. shop welded, field bolted or field welded) required for the erection of miscellaneous and structural steel at Wolf Creek. The drawings listed in Appendix B of this report were used as the basis of this count, and the results are tabulated in Table 1. Approximately 11,150 total joints are required for the fabrication and erection of structural and miscellaneous steel.

Table 1 indicates that there are 2320 field weld joints while the reinspection program identified 2670 joints. There are two major reasons for this difference:

1) Table 1 does not include field welded joints required by field fabrication requests, NCRs, and FCRs, and
2) miscellaneous differences in counting (i.e., when joints are partially shop welded and field welded, etc.).

Overall, even considering 2670 field welded joints instead of 2320, field welding accounts for less than 25 percent of the total joints required for fabrication and erection of structural and miscellaneous steel at Wolf Creek.

C. II/I WELDS

AWS field welds on seismic II/I items included in the miscellaneous/structural steel contracts were not included in the reinspection. These seismic II/I items are handrails, toe plates, grating, checkered plate, stairs, ladders and monorails. Typically these are shop welded, field bolted items which are designated seismic II/I only to assure that they will not fail during an earthquake. In general, they do not act as seismic supports for other items. Monorails were load tested as part of the Start-up procedures. Typically the seismic loads on these items are much less critical than the service loads imposed during construction. We believe that significant deficiencies in any field welds that may have been made on these types of items would have been identified during the construction period. In addition, we have not identified any welding deficiencies in the safety-related joints which have been inspected that would have resulted in a failure of those joints. We would expect the same results from a reinspection of welds on II/I items.

III. REINSPECTION RESULTS

A. General

All accessible joints identified by Bechtel as part of this reinspection program were reinspected by AWS certified weld inspectors under the direction of DIC and KG&E quality control organizations. The reinspections were performed to the existing welding criteria of AWS D1.1-75, Bechtel Specifications 10466-C122 or 10466-C132, and applicable Bechtel approved documents, with the exception that some inspections were performed through paint. A reinspection report was generated for each joint indicating:

1) if the welds on the joint were acceptable,
2) the type and extent of any deviation from AWS D1.1 and Bechtel Specification requirements (In this case the as-built condition of all welds on the joints was documented on the inspection report), or
3) if the joint was inaccessible (i.e. embedded in concrete or obstructed by installed equipment.)

Of the 2670 joints identified for inspection, 2386 joints were completely inspected, 165 joints were partially inaccessible, and 119 joints were totally inaccessible. All welds on 1292 joints were accepted by the inspectors, while welding deviations were noted on 1094 joints. Many of the deviations were very minor in nature, such as limited areas of lack of fusion or undercut, minor undersize, cold lap, etc.

All inspection reports were forwarded to Bechtel for engineering evaluation.

B. Summary of Reported Welding Deviations

Appendix D provides a synopsis of the inspection results for each joint. In order to accurately report the reinspection results, each straight line segment of a weld was identified, and the reinspection results were reported on a segment by segment basis. The number of weld segments on a joint which have a particular welding deviation is recorded in the appropriate column of Appendix D. A summary of the data in Appendix D is provided in this section:

1) Undersize

A. Weld undersized for part of length - 68 joints

B. Weld undersized on one leg (typically 1/16 inch or less) - 375 joints. The undersiz occurred only on the return welds on 103 of these joints.

C. Weld undersized full length (of weld segment) - 284 joints. The undersize occurred only on the clip angle return welds on 69 of these joints.

D. Weld undersized due to fit-up/root gap - 29 joints.

An engineering evaluation has identified only 2 joints (RA, and R039) in which the maximum calculated design stress exceeded the allowable as the result of undersized welds. These 2 joints are discussed further in Section IV. B. Other joints were identified with undersized welds in which the maximum calculated stress exceeded allowable stresses, however these conditions were the result of being found in conjunction with more serious defects of missing or underlength welds.

2) Weld Defects

A. Overlap (typically limited to a small percentage of weld length) - 68 joints.

B. Incomplete penetration - 24 joints

C. Lack of fusion (typically limited to a small percentage of weld length) - 91 joints

D. Excessive reinforcement - 6 joints

E. Edge consumption (i.e. weld size in excess of AWS D1.1 , Paragraph 2.7.14) - 99 joints (occurred on the return welds only on 48 of these joints.

F. Cracks - 3 joints (all on beam to beam seat welds)

G. Gouge/grinding -14 joints

H. Slag - 9 joints

I. Porosity - 5 joints

J. Arc strike - 3 joints

K. Convexity - 3 joints

L. Other - 53 joints

Essentially all of the weld defects were very minor in nature. Only 1 joint (C146) had calculated design stresses that exceeded the allowable as the result of excessive grinding. This joint is discussed further in Section IV.B. No other repair of there defects was required.

3) Incorrect Configuration

A. Gap in continuous weld (typically at nail holes provided in embedded plates to aid installation) - 31 joints.

B. Spacing on intermittent welds - 1 joint

C. Overrun (i.e. excessive weld length) - 754 joints. 658 of these joints involved overrun on the clip angle to embedded plate return welds only.

D. Weld in wrong location/not welded per drawing (e.g. groove vs. fillet weld, etc) - 5 joints

No joints were identified with overstress conditions as a result of incorrect weld configuration. Overrun on the clip angle to embedded plate welds was the most common welding deviation identified. Although the ideal condition would be to have the return weld extend only 1 inch maximum from the toe of the angles, the extra weld length does not reduce the capacity of the beam or the embedded plate to support the design loads. No repairs were required as the result of incorrect weld configuration.

4) Underrun (i.e. insufficient weld length)

A. Greater than 1 inch in length - 96 joints

B. Less than 1 inch in length - 233 joints

An engineering evaluation has identified only 10 joints (AC, A102, A419, A430, A431, A435, A436, A445, DD and D012) in which the maximum calculated design stress exceeded the allowable as the results of weld underrun greater than 1 inch in length. These 10 joints are discussed further in Section IV.B. No over-stress conditions resulted from weld underrun less than 1 inch in length.

5) Undercut

A. Greater than 1 inch in length - 26 joints

B. Less than 1 inch in length - 62 joints

The identified undercut was typically less than or equal to 1/16 inch in depth. No overstress conditions resulted from undercut. No repairs were required.

6) Missing Material

A. Material change-out (e.g. shims or filler plates added, plate instead of angle) - 21 joints

B. Missing Material - 19 joints

C. Missing Weld (segment) - 127 joints

An Engineering evaluation has identified 69 joints (RF, R171, R172, R810 through R869, RJ87 through RJ90, C024 and C055) in which the maximum calculated design stress exceeded the allowable as the result of missing material or welds. 60 of these joints are identical polar crane girder radial stops. These 69 joints are discussed further in Section IV. B. An additional discussion of all joints with missing material and welds is included in Section IV. C.

7) Inaccessible Joints

A. Totally inaccessible - 119 joints

B. Partially inaccessible - 165 joints

A discussion of inaccessible joints is included in Section IV.D.

IV. JOINT EVALUATION

A. General

All reinspection reports were forwarded to Bechtel and the as-built condition of each joint was evaluated against the allowable stresses and loading combinations specified in the SNUPPS Civil-Structural Design Criteria, 10466-C-0.

The general acceptance criteria for weld deviations from the requirements of AWS D1.1 and Bechtel Specifications 10466-C122 and 10466-C132 was:

1) All weld deviations which resulted in a violation of the design allowable stresses specified in the SNUPPS Civil-Structural Design Criteria 10466-C-0 were unacceptable and the welds were repaired. (See Section IV. B)

2) Missing welds were unacceptable regardless of the stress levels in the joint and the welds were installed unless specifically approved otherwise by the engineer. (See Section IV. C)
3) Defects (cracks, lack of fusion, undercut, etc.) which jeopardized the integrity of the joint were unacceptable and required repair. The engineer performed a case by case review of each weld inspection report in order to identify those defects which required repair.

B. Joints Which Exceed Allowable Stresses

In the as-built condition, 82 joints had calculated weld stresses which exceeded the allowables as defined by the SNUPPS Civil-Structural Design Criteria 10466-C-0. All joints with calculated stresses that exceeded the allowables had missing, (in one case as the result of excessive grinding) undersized, or underlength welds. None of the joints were determined to have incurred damage as a result of the as-built condition and previous or existing loads. None of the calculated stresses exceeded the ultimate capacity of the welds. The only required rework to these joints was the installation of the missing, undersize or underlength welds.

The joints with calculated weld stresses that exceeded the allowables are:

1) Auxiliary Building Joint AC - The top and bottom return welds between the clip angles and beam 763B8 were underlength approximately 3 inches. The maximum design reaction is 12.2 kips, while the allowable load for the as-built condition was 10.5 kips. Therefore, the allowable load was exceeded by 16 percent. The ultimate capacity of the as-built

joint was 25 kips. NCR 1SN20568CW has been dispositioned to install the missing portion of the return welds in order to restore the original design condition.

2) Auxiliary Building Joint A102 - The weld between one clip angle and beam 763B3 was undersized by 1/16 inch for the entire length, and the returns were underlength by approximately 3 1/2 inches. In the as-built condition, the maximum calculated design stress in the weld was 20.0 kips per square inch (ksi), while the allowable weld stress is 18.6 ksi. Therefore, the allowable stress was exceeded by 8 percent. The ultimate capacity of the weld is approximately 44 ksi. NCR 1SN21179CW has been been dispositioned to rework the clip angle connection in order to reduce the design stress below the allowable.

3) Auxiliary Building Joint A419 - The welds between the clip angle and beam 763B7 were undersized by 1/16 inch. The return welds between the clip angles and the beam were underlength by approximately 3 1/4 inches. The maximum design reaction is 12.4 kips, while the allowable load for the as-built condition was 6.9 kips. Therefore, the allowable load was exceeded by 80 percent. The ultimate capacity of the as-built joint was 16.3 kips. NCR 1SN20995CW has been dispositioned to rework the clip angles to beam connection in order to restore the original design condition.

4) Auxiliary Building Joint A430, A435 and A445 - The return welds between the clip angles and beam 763B1 were underlength by approximately 3 1/4 inches. The maximum design reaction is 10.4 kips, while the allowable load for the as-built condition was 10.0 kips. Therefore, the allowable load was exceeded by 4 percent. The ultimate capacity of the as-built joint was 23.8 kips. NCR 1SN20995CW has been dispositioned to rework the clip angles to beam connections in order to restore the original design condition.

5) Auxiliary Building Joint A431 - The clip angle to embedded plate weld was undersized by 1/16 inch for its entire length on one clip angle. Also, the return welds between the clip angles and beam 763B7 were underlength by approximately 3 inches. The maximum design reaction is 12.4 kips, while the allowable load for the as-built condition was 10.9 kips. Therefore, the allowable load was exceeded by 14 percent. The ultimate capacity of the as-built joint was 26 kips. NCR 1SN20995CW has been dispositioned to repair the undersized vertical weld on the clip angle to embedded plate and to rework the clip angles to beam connection in order to restore the original design condition.

6) Auxiliary Building Joint A436 - The return welds between the clip angles and beam 763B8 were underlength by approximately 3 1/4 inches. The maximum design reaction is 12.4 kips, while the allowable load for the as-built condition was 10.9 kips. Therefore, the allowable load was exceeded by 14 percent. The ultimate capacity of the as-built joint was 26.0 kips. NCR 1SN20995CW has been dispositioned to repair the underlength welds in order to restore the original design condition.

7) Reactor Building Joint RA - The weld between one of the clip angles and beam 606B3 is undersized up to 3/16 inch. The maximum design reaction is 81 kips, while the allowable load for the as-built condition was 62.6 kips. Therefore, the allowable load was exceeded by 29 percent. The ultimate capacity of the as-built joint was 149 kips. NCR 1SN20567CW has been dispositioned to repair the undersized vertical clip to beam weld in order to restore the original design condition.

8) Reactor Building Joint RF - The weld between the pressurizer support beam and the top support bracket at pressurizer support Detail 4 was not installed. The welds between the beam and the bottom support bracket, and between the bottom support bracket and the embedded plate were undersized.

The bottom bracket welds must support the entire horizontal load with the beam to top support bracket weld not installed. An engineering analysis has determined that the beam to bottom bracket weld was adequate to support the maximum design load within allowable stresses, however, the bottom bracket to embedded plate weld was determined to be undersized by 9 percent. NCR 1SN20509CW has been dispositioned to install the beam to top bracket weld. The full installation of the weld is prohibited by field conditions; however, sufficient weld can be installed to reduce the stresses below the design allowables.

9) Reactor Building Joint R039 - The weld between the clip angles and embed is undersized by 1/16 inch. The maximum design reaction is 60 kips, while the allowable load for the as-built condition was 50 kips. Therefore, the allowable load was exceeded by 20 percent. The ultimate capacity of the as-built joint was 119 kips. NCR 1SN21072CW has been dispositioned to increase the weld size in order to restore the original design condition.

10) Reactor Building Joint R171 - The weld between the support beam and the top bracket was not installed at pressurizer support Detail 6 and the weld between the support beam and the bottom bracket is undersized. The total horizontal design load on the weld is 339 kips. For the as-built condition the allowable horizontal load on the joint was 251 kips. Therefore, the allowable load was exceeded by 35 percent. The ultimate capacity was approximately 375 kips. NCR 1SN20509CW has been dispositioned to install the missing beam to top bracket weld in order to reduce all stress below design allowable.

11) Reactor Building Joint R172 - The weld between the support beam and the top support bracket was not installed and the weld between the support beam and bottom support bracket was undersized at pressurizer support Detail 8. The total horizontal design load on the joint is 339 kips. For the as-built condition, the allowable horizontal load on the joint was 286 kips. Therefore, the allowable load was exceeded by 19 percent. The ultimate capacity of the weld was approximately 426 kips. NCR 1SN20509CW has been dispositioned to install the missing beam to top bracket weld. The full installation of the weld is prohibited by field conditions; however, sufficient weld can be installed to reduce all stresses below the design allowables.

12) Reactor Building Joints R810 through R869 - Two of the five welds between the polar crane girder radial stops and the support bracket were not installed. The maximum design reaction is 450 kips, while the allowable load for the worst case as-built condition was 307 kips. Therefore, the allowable load was exceeded by 47 percent. The ultimate capacity of the as-built joint was 456 kips. The applicable NCR's (see Appendix A)have been dispositioned to install the missing welds in order to restore the original design condition.

13) Reactor Building Joints RJ87 through RJ90 - The lateral support brackets for the incore instrumentation tube supports were not installed as required by Drawing C-OS2924 Section A. An engineering analysis by Westinghouse Electric Corporation has indicated that the missing brackets could result in an overstress condition in the instrumentation tubes, however, no failure of the tubes would have resulted from the missing bracket. Westinghouse letter SNP(KG)-503 is included as an attachment of this report. NCR 1SN20494CW has been dispositioned to install the brackets in order to restore the original design condition.

14) Control Building Joint CØ24 - The beam seat required for this joint was not installed. The maximum design load on the joint is 31.Ø kips. The allowable capacity of the as-built web connection was 24.Ø kips. Therefore, the allowable load was exceeded by 29 percent. The ultimate capacity of the as-built web connection was 57.Ø kips. NCR 1SN21Ø48CW has been dispositioned to install the beam seat in order to restore the original design condition.

15) Control Building Joint CØ55 - The beam seat required for this joint was not installed. The maximum design load on the joint is 12.7 kips. The allowable capacity of the as-built web connection was 1Ø.9 kips. Therefore, the allowable load was exceeded by 17 percent. The ultimate capacity of the as-built web connection was 2Ø.Ø kips. Due to field interferences the seat cannot be installed. NCR 1SN21Ø31CW has been dispositioned to rework the clip angle to embedded plate connection to increase the weld size so that the connection capacity is greater than the design load and the margin of safety is restored.

16) Control Building Joint C146 - The weld between one of the clip angles and the beam was ground out for a 12 inch length. The maximum design reaction is 13Ø kips, while the allowable load for the as-built condition was 91.5 kips. Therefore, the allowable load was exceeded by 42 percent. The ultimate capacity of the as-built joint was 218 kips. NCR 1SN2Ø915CW has been dispositioned to replace the missing weld length in order to restore the original design condition.

17) Diesel Bulding Joint DD - The return welds between the clip angles and beam 12B5 were 1/2 inch to 1 inch long instead of the required 4 inches $\pm$ 1 inch. The maximum design reaction is 265 kips, while the allowable load for the as-built condition was 22Ø kips. Therefore the allowable

load was exceeded by 21 percent. The ultimate capacity of the as-built joint was 524 kips. NCR 1SN20565CW has been dispositioned to install the missing portion of the return welds in order to restore the original design condition.

18) Diesel Building Joint D012 - The return welds between the clip angles and beam 11B1 were underlength by approximately 3 1/4 inches. The maximum design reaction is 130 kips, while the allowable load for the as-built condition was 103 kips. Therefore, the allowable load was exceeded by 26 percent. The ultimate capacity of the as-built joint was 245 kips. NCR 1SN21741CW has been dispositioned to repair the undersized weld in order to restore the original design condition.

C. Joints with Missing Welds and Material

The reinspection program identified missing welds at 129 joints. 96 of these joints were associated with three specific areas of construction:

1) polar crane girder - 60 radial stops had welds missing on the support plates
2) pressurizer support beams - 6 joints had the beam to top support bracket missing
3) beam seats - 30 joints had missing seat to beam welds

An engineering evaluation has determined that none of the missing welds would have resulted in the failure of a safety related component. A discussion of each joint with missing welds follows:

1) Reactor Building Joints R810 through R869 - Two of the five welds were not installed on each of 60 polar crane girder radial stops. As

discussed in Section IV.B, all of these joints would have been overstressed for the most critical design loading combination; however, none of the joints would have failed as a result of the missing welds. The applicable NCR's (see Appendix A) have been dispositioned to install the missing welds in order to restore the original design margins.

2) Reactor Building Joints RF, R169, R170, R171, R172 and R174 - The weld between the pressurizer support beams and the top support brackets were not installed on all six pressurizer support beam joints. Three of the joints (RF, R171 and R172) would have been overstressed for the most critical design loading condition (see Section IV. B); however, none of the joints would have failed as the result of the missing welds. NCR 1SN20509CW has been dispositioned to install the welds. The full installation of the welds is prohibited by field conditions; however, sufficient weld can be installed to reduce the stresses below the design allowables.

3) Auxiliary Building Joint AF - The weld between one of the support clip angles and the beam was not installed. An engineering evaluation has determined that the existing one-sided connection was adequate to support the design loads within allowable stresses. NCR 1SN20495CW has been dispositioned to install the missing weld in order to restore the original design condition.

4) Auxiliary Building Joints A012, A013, A023, A036, A039, A040, A041, A046, A058, A060, A061, A063, A064, A067, A068, A069, A070, A077, A100, A315, A369, A385 and A386. Control Building Joints C022, C023, C027, C028, C029, C030, and C212 - The connection welds between the bottom flange of the beams and the beam seats were not installed. This weld is not designed to support design loads. The vertical reaction of

the beam is transfered to the beam seat through bearing between the bottom of the flange and the top of the seat. The welds simply hold the beam in the required location. In additional to the seated connection all of these joints have full web connections which prevent the beam from moving and thus there is no consequence to the omission of the beam to seat welds. The applicable NCR's (see Appendix A) have been dispositioned to install the missing welds in order to restore the original design condition. However, Joints A012, A013, A046 and A070 are skewed or offset connections that allow the installation of only one of the two designed beam to seat welds. In addition, the missing welds for Joints A023 and C029 can not be installed due to field conditions.

5) Reactor Building Joint RJ83 through RJ86 - The welds between the interior framing members of the containment cooler support frames and the floor framing steel were not installed. An engineering evaluation has determined that installed welds on the exterior framing members were adequate to support the coolers without exceeding the allowable stresses. The disposition of NCR 1SN20494CW provided details for the installation of welds between the interior framing members and the floor framing in order to restore the design margins.

6) Auxiliary Building Joints A609 through A616 - The welds between the clip angles and the support (in these cases a girder rather than an embedded plate) were not installed. The welds are provided to temporarily support the beams during removal of beams on the far side of the supporting girder. A fully bolted connection is provided to support the beams during normal operation. NCR 1SN21273CW has been dispositioned to install the missing welds.

7) Reactor Building Joint R585 - The welds between the gusset plate and the C8 beam were not installed as required by the erection drawing.

However, an alternate weld was approved by FCR 1-1182-C. This weld has been installed and is capable of supporting the design load within allowable stresses. NCR 1SN21235CW which addressed the connection has been closed in process.

8) Reactor Building Joints R945 and R947 - The welds between the clip angles and C8 platform beams were not installed. A bolted connection was also provided between the beams and clip angles which is capable of supporting the design loads within allowable stresses. NCR 1SN21274CW has been dispositioned to install the missing welds in order to restore the original design condition.

9) Diesel Building Joints D001 and D002 - The weld between a diagonal brace gusset plate and the web of a beam was not installed. In addition to this weld detail, there is a clip angle shop welded to the gusset plate and field bolted to the beam that is capable of supporting the design load. NCR 1SN20865CW has been dispositioned to address these connections. The missing weld on Joint D001 will be installed in order to restore the original design intent. However, due to field conditions which prohibit the installation of the weld, D002 was approved to use-as-is.

10) Auxiliary Building Joint A635 - The welds between the bent plate and the column were not installed. A bolted connection was also provided between the plate and the column which is capable of supporting the design loads within allowable stresses. NCR 1SN21399CW has been dispositioned to install the missing welds in order to restore the original design conditon.

11) Reactor Building Joints R991 and R992 - The welds between gusset plate 411PM4 and beams were not installed as required by the erection drawings. However, an alternate weld was approved by FCR 1-1182-C. This weld has been installed and is capable of supporting the design

load within allowable stresses. NCR 1SN21323CW which addressed the connection has been closed in process.

12) Auxiliary Building Joint A111 - The weld between the toe of a C8 channel frame and the support beam below it was not installed. The existing weld between the back of the channel and the beam is adequate to support the channel without exceeding allowable stresses. NCR 1SN20798CW has been dispositioned to install the missing welds in order to restore the original design condition.

13) Fuel Building Joints FØ37 and FØ38 - The welds between the flanges of a C8 beam and embedded plate were not installed. An engineering evaluation has determined that the existing welds between the C8 web and the embedded plate are adequate to support the design loads within allowable stresses. The joints have been approved by NCR 1SN20883CW to use-as-is.

14) Auxiliary Building Joints A412, A641 and A646
Control Building Joints CØ13, CØ14, CØ85 and C128
Fuel Building Joints FØ17 and FØ22
The clip angle to beam, clip angle to embed, or seat to embed return welds were not installed at these joints. An engineering evaluation has determined that none of the joints would be overstressed as a result of the missing return welds. The applicable NCR's (see Appendix A) have been dispositioned to install the missing welds in order to restore the original design condition.

15) Reactor R876 - The top weld between the embed and grating support angle was removed by grinding at this joint. An engineering evaluation indicated that the existing connection was sufficient. NCR 1SN21232CW has been dispositioned to replace the weld. Field conditions prohibit the full installation of the weld, but sufficient weld can be installed to meet the design intent.

The reinspection identified 19 joints with missing material as described below. An engineering evaluation has determined that the missing material would not have resulted in the failure of safety equipment or building components. The joints with missing material are:

1) Auxiliary Building Joints A055 and A098, Control Building Joints C025, C036, C037, C040, C042, C052, C053, and C054 - The beam seats for these 10 connections were not installed. The beam seats were specified on applicable American Bridge erection drawings to be installed as required by Bechtel Standard Detail 10 on Drawing C-0011. A review of the design calculations indicated that the existing web connections were capable of supporting the design reactions within allowable stresses even though the beam seats were not installed. The beam seats have been installed in order to restore the original design condition for Joints A098, C025, C036, C040 and C042. However, due to field conditions, the beam seats for Joints A055, C037, C052, C053 and C054 could not be installed.
2) Reactor Building Joint R059 - The tension plate was not installed between the embedded plate and beam 625B1 as required by the erection drawings. However, alternate plates have been installed per NCR 1SN18407C. NCR 1SN21076CW was dispositioned to approve the as-built condition.
3) Reactor Building Joints RJ93 and RJ94 - The bottom tie was not installed at intersecting beams as required by Bechtel drawing C-OS2311. A review of existing design calculations indicates that the as-built connection is adequate to support all design loads within allowable stresses. Due to the installation of electrical conduit supports the bottom tie plate cannot be installed. Drawing C-OS2311 will be revised to delete the requirements for this plate per the disposition to NCR 1SN20494CW.

4) Reactor Building Joints RJ87 through RJ90 - The lateral support brackets for the incore instrumentation tube supports were not installed as required by drawing C-OS2924 Section A. An engineering analysis by Westinghouse Electric Corporation has indicated that the missing brackets could result in an overstress condition in the instrumentation tubes, however, no failure of the tubes would have resulted from the missing bracket. Westinghouse letter SNP(KG)-503 is included as an attachment of this report. NCR 1SN20494CW has been dispositioned to install the brackets in order to restore the original design condition.

5) Auxiliary Building Joint A628 - Only 1 of the 2 required clip angles was installed. An engineering evaluation has determined that the installed clip angle is adequate to support the design load within the allowable stresses. NCR 1SN21272CW has been dispositioned to install the missing clip angle in order to restore the original design condition.

6) Control Building Joints C024 and C055 - The beam seats were not installed. As discussed in Section IV. B, the maximum calculated design stress in the existing web connections would have exceeded the allowable stresses without the beam seats installed, however, the joints would not have failed. NCR 1SN21048CW has been dispositioned to install the beam seat for Joint C024 in order to restore the original design condition. Since field conditions prohibit the installation of the beam seat for Joint C055, NCR 1SN21031CW was dispositioned to rework the clip angle to embedded plate connection so that allowable stresses are not exceeded. See Section IV. B, Item 15 for further discussion.

D. Inaccessible Joints

As noted in Section III.B, 119 joints were identified by the reinspection to be totally inaccessible. 62 of these joints were evaluated on a case by case basis, typically where alternate load paths existed (i.e. the beam is

embedded in a concrete wall which is capable of supporting the design load in the completed structure). In addition, some portions of the welds were inaccessible on 165 joints. Sufficient information was available on 139 of these joints to enable a case by case evaluation to be performed. Therefore, a total of 83 joints, out of the total population of 2670 joints were identified in which a case by case evaluation of the acceptability of the welds could not be determined.

The fully inspected joints may be viewed as a sample of the total population of joints consisting of fully inspected, partially inspected and uninspectable joints. Based on the above numbers a statistical evaluation may be undertaken for those joints which are either totally or partially inaccessible. It is important to observe that the sample size represents such a significant percentage of the total population that the statistic associated with the sample may be applied to the total population with virtually 100 percent confidence. This implies that if some percentage of the inspected joints were determined to exceed allowable stresses, then statistically this percentage may be assumed for the total population with a very high confidence.

Of the 2587 joints which were evaluated on a case by case basis, only 82 joints, 3.17 percent, were identified in which the weld stresses exceed the allowables. Considering that 60 of these joints are polar crane radial stops installed to one typical detail, there are 22 joints in the remaining population of 2527 joints, or 0.87 percent, which exceed allowable stresses. We would expect the percentage of joints which exceed the allowable stresses in the group of inaccessible and unevaluated joints to be approximately 0.8 percent, or approximately 1 joint in the group of 83 joints, that could not be evaluated. Likewise, we would not expect to find

any joints that would fail under the design loading conditions as a result of welding deviations.

V. CONCLUSION

No significant deficiencies as defined by 10CFR50.55(e) were identified as the result of the reinspection and evaluation of AWS field welding of structural and miscellaneous steel construction at Wolf Creek. All joints with calculated stresses that exceeded the allowables as the result of welding deficiencies are being repaired as described in Section IV. B. Missing welds and materials are being installed as described in Section IV. C.

TABLE 1

MISCELLANEOUS/STRUCTURAL STEEL CONNECTION SUMMARY

Building	Shop Welded Joints		Field Bolted Joints		Field Welded Joints		Total Joints	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Auxiliary	1500	41%	1580	43%	610	16%	3690	100%
Reactor	2680	51%	1520	29%	1060	20%	5260	100%
Control	350	35%	380	39%	260	26%	990	100%
Diesel	260	40%	310	48%	80	12%	650	100%
Fuel	90	19%	110	23%	280	58%	480	100%
Pumphouse	20	24%	30	38%	30	38%	80	100%
TOTAL	4900	44%	3930	35%	2320	21%	11150	100%

TABLE 2
STATUS OF AWS WELDING
INSPECTIONS AND ENGINEERING EVALUATIONS

BUILDING	TOTAL JOINTS	JOINTS INSPECTED (1)	JOINTS EVALUATED (1)	JOINTS REQUIRING REWORK (2)	ADDITIONAL JOINTS TO BE REWORKED (3)	SIGNIFICANTLY DEFICIENT JOINTS (10CFR50.55 (e))
AUXILIARY	694	694	694	8	40	0
REACTOR	1300	1300	1300	69	10	0
CONTROL	265	265	265	3	14	0
DIESEL GENERATOR	98	98	98	2	1	0
FUEL	277	277	277	0	2	0
ESWS PUMPHOUSE	36	36	36	0	0	0
TOTAL	2670	2670	2670	82	67	0

(1) TOTAL INCLUDES INACCESSIBLE JOINTS

(2) DESIGN ALLOWABLE STRESSES ARE EXCEEDED IN THE AS-BUILT CONDITION

(3) DESIGN ALLOWABLE STRESSES ARE NOT EXCEEDED IN THE AS-BUILT CONDTION. THESE JOINTS ARE BEING REWORKED PER KG&E MANAGEMENT DIRECTION TO INSTALL MISSING AND UNDERLENGTH WELDS UNLESS PROHIBITED BY FIELD CONDITIONS.

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STRUCTURAL JOINTS TRACKING

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JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.
A001	C-0S1411	C-121-00165	E205	2026-00	1-0 N OF A14	AL	21022	A034/A035
A002	C-0S1411	C-121-00165	E205	2026-00	1-0 N OF A14	10-8 W OF AL	-----	VOID SAME AS JOINT AB
A003	C-0S1411	C-121-00165	E205	2026-00	1-0 N OF A14	2-6 E OF CA	21022	A038/A039
A004	C-0S1411	C-121-00165	E205	2026-00	A12	1-0 E OF CA	21022	A040/A041
A005	C-0S1411	C-121-00165	E205	2026-00	A10	1-0 E OF CA	21022	A042/A043/A044
A006	C-0S1421	C-121-00971	E105	2026-00	A7	1-0 E OF CA	21043	A237/A238/A239/A877
A007	C-0S1421	C-121-00971	E105	2026-00	A6	1-0 E OF CA	21043	A240/A241/A242/A243
A008	C-0S1421	C-121-00971	E105	2026-00	A4	1-0 E OF CA	21043	A244/A245/A246
A009	C-0S1421	C-121-00971	E105	2026-00	A3	1-0 E OF CA	21043	A247/A248/A249
A010	C-0S1421	C-121-00971	E105	2026-00	1-0 S OF A1	AM	21043	A250/A251
A011	C-0S1321	C-121-00034	E103	2000-00	A7	1-0 E OF CA	20962	A203/A204/A205/A206
A012	C-0S1311	C-121-00130	E203	2000-00	A8	1-0 E OF CA	20798	A160/A161/A162/A163
A013	C-0S1311	C-121-00130	E203	2000-00	A12	1-0 E OF CA	20798	A164/A165/A166
A014	C-0S1311	C-121-00130	E203	2000-00	2-0 N OF A14	7-6 E OF AN	20965	A167/A168
A015	C-0S1311	C-121-00130	E203	2000-00	2-0 N OF A14	7-10 W OF AL	20965	A169/A170/A171
A016	C-0S1352	C-121-01549	E302	2000-00	3-0 S OF A3	1-0 W OF AA	21049	A068
A017	C-0S1352	C-121-01549	E302	2000-00	4-6 S OF A2.6	1-0 W OF AA	21050	A069
A018	C-0S1352	C-121-01549	E302	2000-00	A2	1-0 E OF AC	21049	A070
A019	C-0S1352	C-121-01549	E302	2000-00	2-0 S OF A1	AD	21050	A071
A020	C-0S1352	C-121-01549	E302	2000-00	2-0 S OF A1	2-6 E OF AC	21050	A072
A021	C-0S1352	C-121-01549	E302	2000-00	2-0 S OF A1	AB	21050	A073
A022	C-0S1321	C-121-00034	E103	2000-00	A6	1-0 E OF CA	20962	A207/A208/A209/A745
A023	C-0S1321	C-121-00034	E103	2000-00	A5	1-0 E OF CA	20962	A210/A211/A212/A213
A024	C-0S1321	C-121-00034	E103	2000-00	A3	1-0 E OF CA	20962	A214/A215/A216/A796
A025	C-0S1321	C-121-00034	E103	2000-00	A2	1-0 E OF CA	20962	A217/A218/A219
A026	C-0S1321	C-121-00034	E103	2000-00	2-0 S OF A1	5-4 E OF CA	20960	A220/A370/A371/A372
A027	C-0S1531	C-121-00629	E502	2047-06	1-0 N OF A13.1	11-2 E OF AF6	21029	A066
A028	C-0S1531	C-121-00629	E502	2047-06	1-0 N OF A14	AH3	21352	A686
A029	C-0S1521	C-121-00912	E401	2047-06	A5	1-0 E OF CA	21027	A175/A176/A177/A878
A030	C-0S1521	C-121-00912	E401	2047-06	A4	1-0 E OF CA	21027	A178/A179/A180
A031	C-0S1521	C-121-00912	E401	2047-06	A3	1-0 E OF CA	21027	A181/A182//A183/A184
A032	C-0S1521	C-121-00912	E401	2047-06	A2	1-0 E OF CA	21027	A185/A186
A033	C-0S1521	C-121-00912	E401	2047-06	1-0 S OF A1	AN	21027	A187/A188/A189
A034	C-0S1521	C-121-00912	E401	2047-06	1-0 S OF A1	10-0 E OF AN	21027	A190/A191/A192
A035	C-0S1521	C-121-00912	E401	2047-06	1-0 S OF A1	AM	21027	A193/A194/A195/A196
A036	C-0S1521	C-121-00912	E401	2047-06	1-0 S OF A1	10-0 E OF AM	20798	A197/A198/A199
A037	C-0S1521	C-121-00912	E401	2047-06	1-0 S OF A1	AK	-----	VOID SAME AS JOINT AE
A038	C-0S1541	C-121-00627	E402	2047-06	1-0 S OF A1	AJ	20964	A045/A046/A047
A039	C-0S1541	C-121-00627	E402	2047-06	1-0 S OF A1	11-6 W OF AH	20798	A048/A049/A050
A040	C-0S1541	C-121-00627	E402	2047-06	1-0 S OF A1	AH	20798	A051/A052/A053
A041	C-0S1541	C-121-00627	E402	2047-06	1-0 S OF A1	8-6 W OF AF	20798	A054/A055/A056
A042	C-0S1541	C-121-00627	E402	2047-06	A3	1-0 W OF AE	20964	A057/A058/A059
A043	C-0S1541	C-121-00627	E402	2047-06	1-7 N OF A3.3	1-0 W OF AE	20964	A060/A061/A062
A044	C-0S1352	C-121-01549	E302	2000-00	3-0 S OF A3	1-0 E OF AE	21050	A074
A045	C-0S1352	C-121-01549	E302	2000-00	3-6 N OF A3	1-0 E OF AE	21049	A075/A076
A046	C-0S1311	C-121-00130	E203	2000-00	A10	1-0 E OF CA	20798	A172/A173/A174
A047	C-0S1411	C-121-00165	E205	2026-00	A8	1-0 E OF CA	21022	A063/A064/A065
A048	C-0S1421	C-121-00971	E105	2026-00	A2	1-0 E OF CA	21043	A252/A253/A881
A049	C-0S1421	C-121-00971	E105	2026-00	A5	1-0 E OF CA	21043	A254/A255/A256/A257

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.
A050	C-0S1421	C-121-00971	E105	2026-00	1-0 S OF A1	10-0 E OF AM	21043	A258/A259
A051	C-0S1421	C-121-00971	E105	2026-00	1-0 S OF A1	AK	21043	A260/A261/A262/A263
A052	C-0S1321	C-121-00034	E103	2000-00	2-0 S OF A1	AN	20962	A221/A222/A223
A053	C-0S1321	C-121-00034	E103	2000-00	2-0 S OF A1	AM	20962	A224/A225/A226/A227
A054	C-0S1321	C-121-00034	E103	2000-00	2-0 S OF A1	AK	20962	A228/A229/A230/A735
A055	C-0S1352	C-121-01549	E302	2000-00	A2	1-0 W OF AC	20798	A077/A078/A079
A056	C-0S1352	C-121-01549	E302	2000-00	A2.6	1-0 E OF AE	21049	A080/A081
A057	C-0S1352	C-121-01549	E302	2000-00	A2	1-0 E OF AE	21049	A082/A083
A058	C-0S1541	C-121-00627	E402	2047-06	1-0 S OF A1	AF	20798	A704/A705/A706/A779
A058A	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A14	2-10 E OF AH2	21314	A016/A017
A059	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A14	5-6 E OF AH3	21067	A018
A060	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A14	AH3	20798	A013/A014/A015
A061	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A14	5-0 E OF AJ	20798	A009/A010/A011/A012
A062	C-0C1532			2047-06	7-4 S OF A10.9	AF6	-----	N/A FAB REQUEST 717
A063	C-0S1331	C-121-01635	E204	2000-00	2-0 N OF A14	AJ	20798	A129/A130/A131
A064	C-0S1331	C-121-01635	E204	2000-00	2-0 N OF A14	AH3	20798	A132/A133/A134/A135
A065	C-0S1331	C-121-01635	E204	2000-00	2-7 S OF A13.1	2-0 W OF AG	21030	A136/A137/A138/A139
A066	C-0S1331	C-121-01635	E204	2000-00	2-0 N OF A13.1	AG	21352	A687
A067	C-0S1331	C-121-01635	E204	2000-00	2-0 N OF A13.1	AF6	20798	A140/A141/A142
A068	C-0S1331	C-121-01635	E204	2000-00	2-0 N OF A13.1	10-9 E OF AF6	20798	A143/A144/A145/A146
A069	C-0S1331	C-121-01635	E204	2000-00	2-0 N OF A13.1	3-6 W OF AD1	20798	A147/A148/A149/A150
A070	C-0S1331	C-121-01635	E204	2000-00	A11.8	2-0 W OF AD1	20798	A151/A152/A153/A154
A071	C-0S1341	C-121-01634	E104	2000-00	2-0 S OF A1	AJ	20961	A264/A265/A266/A267
A072	C-0S1341	C-121-01634	E104	2000-00	2-0 S OF A1	11-6 E OF AJ	20961	A268/A269/A270/A271
A073	C-0S1341	C-121-01634	E104	2000-00	2-0 S OF A1	AH	20961	A272/A273/A274/A275
A074	C-0S1341	C-121-01634	E104	2000-00	2-0 S OF A1	8-6 E OF AH	20961	A276/A277/A278/A279
A075	C-0S1341	C-121-01634	E104	2000-00	2-0 S OF A1	AF	20961	A280/A281/A282
A076	C-0S1341	C-121-01634	E104	2000-00	11-0 S OF A2	1-0 W OF AE	20961	A283/A284
A077	C-0S1341	C-121-01634	E104	2000-00	3-1 S OF A3	1-0 W OF AE	20798	A285/A286/A287/A288
A078	C-0S1352	C-121-01685	E301	1989-00	3-6 N OF A3	1-0 E OF AE	21055	A019/A067
A079	C-0S1352	C-121-01685	E301	1989-00	5-0 N OF A26	1-0 E OF AE	21055	A020
A080	C-0S1352	C-121-01685	E301	1989-00	5-0 S OF A2	1-0 E OF AE	21055	A021
A081	C-0S1352	C-121-01685	E301	1989-00	2-0 S OF A1	AD	21055	A022
A082	C-0S1352	C-121-01685	E301	1989-00	0-6 N OF A3	1-0 E OF AC	21055	A023
A083	C-0S1352	C-121-01685	E301	1989-00	3-6 N OF A3	1-0 E OF AC	21055	A024
A084	C-0S1352	C-121-01685	E301	1989-00	A26	1-0 E OF AC	21055	A025
A085	C-0S1352	C-121-01685	E301	1989-00	5-0 N OF A26	1-0 E OF AC	21055	A026
A086	C-0S1352	C-121-01685	E301	1989-00	5-7 N OF A2	1-0 E OF AC	21055	A027
A087	C-0S1352	C-121-01685	E301	1989-00	2-0 S OF A1	AB	21055	A028
A088	C-0S1352	C-121-01685	E301	1989-00	3-0 S OF A3	1-0 W OF AA	21055	A029
A089	C-0S1352	C-121-01685	E301	1989-00	A26	1-0 W OF AA	21055	A030
A090	C-0S1352	C-121-01685	E301	1989-00	5-0 N OF A26	1-0 W OF AA	21055	A031
A091	C-0S1352	C-121-01685	E301	1989-00	5-0 S OF A2	1-0 W OF AA	21055	A032
A092	C-0S1352	C-121-01685	E301	1989-00	5-7 N OF A2	1-0 W OF AA	21055	A033
A093	C-0S1352	C-121-01549	E302	2000-00	A2.6	1-0 W OF AC	21049	A084/A085
A094	C-0S1352	C-121-01549	E302	2000-00	A2.6	1-0 E OF AC	21050	A086
A095	C-0S1352	C-121-01549	E302	2000-00	2-0 S OF A1	3-0 W OF AC	21050	A087
A096	C-0S1352	C-121-01549	E302	2000-00	2-0 S OF A1	3-7 W OF AA	21049	A088
A097	C-0S1352	C-121-01549	E302	2013-06	A3	1-0 E OF AC	21049	A089/A090
A098	C-0S1431	C-121-00617	E206	2026-00	1-0 N OF A13.1	2-6 W OF AD1	20798	A233/A234/A235/A236
A099	C-0S1441	C-121-01700	E106	2026-00	2-0 N OF A3.3	1-0 W OF AE	20963	A304/A850

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION		NCR	EVALUATION NO.
A100	C-0S1441	C-121-01700	E106	2026-00	A3	1-0 W OF AE	20798	A305/A306/A307
A101	C-0S1452	C-121-10675	E702	2037-06	2-3 S OF A2.6	1-0 E OF AE	21179	A308/A309
A102	C-0S1452	C-121-10675	E702	2037-06	2-3 S OF A2.6	1-0 W OF AC	21179	A310/A311
A103	C-0S1452	C-121-10675	E702	2037-06	2-3 S OF A2.6	1-0 E OF AC	21179	A312/A313
A104	C-0S1452	C-121-10675	E702	2041-10	8-5 N OF A2.6	1-0 E OF AC	21179	A314/A315
A105	C-0S1452	C-121-10675	E702	2041-10	A2	1-0 E OF AC	21179	A316/A317
A106	C-0S1452	C-121-10675	E702	2037-06	2-3 S OF A2.6	1-0 W OF AA	21179	A318/A726
A107	C-0S1452	C-121-10675	E702	2041-10	8-9 S OF A2	1-0 W OF AA	21179	A319/A797
A108	C-0S1452	C-121-10675	E702	2041-10	A2	1-0 W OF AA	-----	N/A
A109	C-0S1521	C-121-00912	E401	2047-06	A6.3	1-0 E OF CA	21027	A155/A156
A110	C-0S1521	C-121-00912	E401	2047-06	1-0 S OF A1	2-6 E OF CA	21027	A157/A158/A159
A111	C-0S1241	C-121-00007	E801	1988-00	1-0 S OF A2	1-0 W OF AF	20798	A201/A202
A112	C-0S1541	C-121-00627	E402	2047-06	1-0 S OF A1	7-0 W OF AJ	20964	A367/A368
A113	C-0S1621	C-121-00274	E403	2073-02	A2	1-0 E OF CA	20935	A231/A232
A114	C-0S1352	C-121-01561	FW815	2013-06	0-6 N OF A2.6	4-4 W OF AC	20975	A289/A290
A115	C-0S1352	C-121-01561	FW815	2013-06	0-6 S OF A2	4-4 W OF AC	20975	A291/A292
A116.	C-0S1352	C-121-01683	E809	2026-00	3-0 S OF A3	1-0 E OF AE	20973	A293
A117	C-0S1352	C-121-01683	E809	2026-00	A2	1-0 E OF AE	21352	A681
A118	C-0S1352	C-121-01683	E809	2026-00	A3	1-0 W OF AC	20972	A294
A119	C-0S1352	C-121-01683	E809	2026-00	A2.6	1-0 W OF AC	21352	A682
A120	C-0S1352	C-121-01683	E809	2026-00	2-0 S OF A1	AD	20972	A295/A296
A121	C-0S1352	C-121-01683	E809	2026-00	A3	1-0 E OF AC	20973	A297
A122	C-0S1352	C-121-01683	E809	2026-00	A2.6	1-0 E OF AC	21352	\683
A123	C-0S1352	C-121-01683	E809	2026-00	A2	1-0 E OF AC	20973	'298/A849
A124	C-0S1352	C-121-01683	E809	2026-00	2-0 S OF A1	6-0 W OF AB	20972	A299/A300
A125	C-0S1352	C-121-01683	E809	2026-00	2-0 S OF A1	6-0 E OF AB	20972	A301
A126	C-0S1352	C-121-01683	E809	2026-00	3-0 S OF A3	1-0 W OF AA	20972	A302
A127	C-0S1352	C-121-01683	E809	2026-00	A2.6	1-0 W OF AA	21352	A684
A128	C-0S1352	C-121-01683	E809	2026-00	A2	1-0 W OF AA	20973	A303
A129	C-0S1212	C-121-01789	E210	1989-08	2-0 N OF A14	AN	-----	N/A
A130	C-0S1212	C-121-01789	E210	1989-08	8-0 S OF A10	1-0 E OF CA	-----	N/A
A131	C-0S1212	C-121-01789	E210	1989-08	A9	1-0 E OF CA	-----	N/A
A132	C-0S1212	C-121-01789	E210	1989-08	A8	1-0 E OF CA	20980	A103
A133	C-0S1212	C-121-01789	E210	1989-08	10-0 N OF A8	1-0 E OF CA	-----	N/A
A134	C-0S1222	C-121-00127	E111	1989-08	A7	1-0 E OF CA	-----	N/A
A135	C-0S1212	C-121-01789	E210	1989-08	8-0 N OF A12	1-0 W OF AN	-----	N/A
A136	C-0S1212	C-121-01789	E210	1989-08	A9	1-0 W OF AN	21132	A543
A137	C-0S1212	C-121-01789	E210	1989-08	7-6 N OF A9	1-0 W OF AN	-----	N/A
A138	C-0S1212	C-121-01789	E210	1989-08	A8	1-0 W OF AN	21132	A544
A139	C-0S1222	C-121-00127	E111	1989-08	A7	1-0 W OF AN	21132	A545
A140	C-0S1212	C-121-01789	E210	1989-08	1-0 S OF A12	5-5 E OF AN	-----	N/A
A141	C-0S1212	C-121-01789	E210	1989-08	1-0 S OF A12	10-10 E OF AN	20980	A104/A105
A142	C-0S1212	C-121-01789	E210	1989-08	1-0 S OF A12	7-0 W OF AL	20978	A106
A143	C-0S1212	C-121-01789	E210	1989-08	9-0 N OF A14	1-6 W OF AL	-----	N/A
A144	C-0S1212	C-121-01789	E210	2015-00	A12	1-0 E OF CA	20980	A107/A108
A145	C-0S1212	C-121-01789	E210	2015-00	A11	1-0 E OF CA	20980	A109/A110
A146	C-0S1212	C-121-01789	E210	2015-00	8-0 N OF A11	1-0 E OF CA	20980	A111/A112
A147	C-0S1212	C-121-01789	E210	2015-00	A10	1-0 E OF CA	20980	A113/A114
A148	C-0S1212	C-121-01789	E210	2015-00	9-0 N OF A10	1-0 E OF CA	20980	A115/A116
A149	C-0S1212	C-121-01789	E210	2015-00	A9	1-0 E OF CA	20980	A117
A150	C-0S1212	C-121-01789	E210	2015-00	A8	1-0 E OF CA	-----	N/A

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.
A151	C-0S1212	C-121-01789	E210	2015-00	10-0 N OF A8	1-0 E OF CA	-----	N/A
A152	C-0S1212	C-121-01871	E110	2015-00	A7	1-0 E OF CA	-----	N/A
A153	C-0S1212	C-121-01789	E210	2015-00	A12	1-0 W OF AN	20980	A118/A119
A154	C-0S1212	C-121-01789	E210	2015-00	A8	1-0 W OF AN	-----	N/A
A155	C-0S1212	C-121-01789	E210	2015-00	10-0 N OF A8	1-0 W OF AN	-----	N/A
A156	C-0S1212	C-121-01871	E110	2015-00	A7	1-0 W OF AN	-----	N/A
A157	C-0S1212	C-121-01776	FW825	1989-08	2-0 N OF A14	6-9 E OF AN	20974	A091
A158	C-0S1222	C-121-00127	E111	1989-08	10-0 N OF A7	1-0 E OF CA	20978	A320/A321/A797
A159	C-0S1222	C-121-00127	E111	1989-08	A6	1-0 E OF CA	20978	A322/A323
A160	C-0S1222	C-121-00127	E111	1989-08	9-0 N OF A6	1-0 E OF CA	20978	A324
A161	C-0S1222	C-121-00127	E111	1989-08	A5	1-0 E OF CA	-----	N/A
A162	C-0S1222	C-121-00127	E111	1989-08	8-3 N OF A5	1-0 E OF CA	20978	A326/A327/A344
A163	C-0S1222	C-121-00127	E111	1989-08	5-6 N OF A4	1-0 E OF CA	20978	A328
A164	C-0S1222	C-121-00127	E111	1989-08	8-0 S OF A3	1-0 E OF CA	-----	N/A
A165	C-0S1222	C-121-00127	E111	1989-08	A3	1-0 E OF CA	20978	A329
A166	C-0S1222	C-121-00127	E111	1989-08	7-8 N OF A3	1-0 E OF CA	-----	N/A
A167	C-0S1222	C-121-00127	E111	1989-08	7-8 S OF A2	1-0 E OF CA	-----	N/A
A168	C-0S1222	C-121-00127	E111	1989-08	A2	1-0 E OF CA	20978	A330
A169	C-0S1222	C-121-00127	E111	1989-08	10-0 N OF A7	1-0 W OF AN	20977	A331
A170	C-0S1222	C-121-00127	E111	1989-08	9-0 N OF A6	1-0 W OF AN	20977	A332
A171	C-0S1222	C-121-00127	E111	1989-08	A5	1-0 W OF AN	20977	A333
A172	C-0S1222	C-121-00127	E111	1989-08	A4	1-0 W OF AN	20978	A334/A512
A173	C-0S1222	C-121-00127	E111	1989-08	5-6 N OF A4	1-0 W OF AN	20977	A335
A174	C-0S1222	C-121-00127	E111	1989-08	8-0 S OF A3	1-0 W OF AN	20977	A336
A175	C-0S1222	C-121-00127	E111	1989-08	A3	1-0 W OF AN	20977	A337
A176	C-0S1222	C-121-00127	E111	1989-08	7-8 N OF A3	1-0 W OF AN	20977	A338
A177	C-0S1222	C-121-00127	E111	1989-08	7-8 S OF A2	1-0 W OF AN	20977	A339
A178	C-0S1222	C-121-00127	E111	1989-08	A2	1-0 W OF AN	20978	A340
A179	C-0S1222	C-121-00127	E111	1989-08	2-0 S OF A1	7-3 E OF CA	-----	N/A
A180	C-0S1222	C-121-00127	E111	1989-08	1-0 N OF A2	AN	20977	A341
A181	C-0S1222	C-121-00127	E111	1989-08	1-0 N OF A2	AK	20977	A342
A182	C-0S1222	C-121-00127	E111	1989-08	2-0 S OF A1	AN	-----	N/A
A183	C-0S1222	C-121-00127	E111	1989-08	2-0 S OF A1	10-0 E OF AN	20978	A343
A184	C-0S1222	C-121-00127	E111	1989-08	2-0 S OF A1	10-0 E OF AM	-----	N/A
A185	C-0S1242	C-121-00980	E211	2016-02	1-6 N OF A12	2-0 E OF AK	20976	A092
A186	C-0S1242	C-121-00128	E112	2015-00	1-0 S OF A1	7-0 E OF AK	-----	N/A
A187	C-0S1242	C-121-00128	E112	2015-00	1-0 S OF A1	AJ	-----	N/A
A188	C-0S1242	C-121-00128	E112	2015-00	1-0 S OF A1	10-0 E OF AJ	-----	N/A
A189	C-0S1242	C-121-00128	E112	2015-00	1-0 S OF A1	3-0 W OF AH	-----	N/A
A190	C-0S1242	C-121-00128	E112	2015-00	1-0 S OF A1	7-0 E OF AH	-----	N/A
A191	C-0S1242	C-121-00128	E112	1989-08	10-6 N OF A3	1-0 E OF AK	21180	A093/A094
A192	C-0S1242	C-121-00128	E112	1989-08	2-0 S OF A1	7-0 E OF AK	21180	A095/A096/A098
A193	C-0S1242	C-121-00128	E112	1989-08	2-0 S OF A1	AJ	21180	A097
A194	C-0S1242	C-121-00128	E112	1989-08	2-0 S OF A1	7-3 E OF AJ	21180	A099/A100
A195	C-0S1242	C-121-00128	E112	1989-08	2-0 S OF A1	7-8 W OF AH	21180	A101/A102
A196	C-0S1211	C-121-00973	E201	1988-00	2-0 N OF A14	AL	21399	INACCESSIBLE
A197	C-0S1312	C-121-01871	E110	2015-00	10-0 N OF A7	1-0 E OF CA	-----	N/A
A198	C-0S1312	C-121-01871	E110	2015-00	A6	1-0 E OF CA	21051	A369
A199	C-0S1312	C-121-01871	E110	2015-00	9-0 N OF A6	1-0 E OF CA	21350	A841
A200	C-0S1312	C-121-01871	E110	2015-00	1-5 S OF A5	1-0 E OF CA	21051	A365/A366
A201	C-0S1312	C-121-01871	E110	2015-00	7-0 N OF A5	1-0 E OF CA	-----	N/A

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION	NCR	EVALUATION NO.
A202	C-0S1312	C-121-01871	E110	2015-00	A4 1-0 E OF CA	-----	N/A
A203	C-0S1312	C-121-01871	E110	2015-00	7-6 N OF A4 1-0 E OF CA	21051	A121/A122
A204	C-0S1312	C-121-01871	E110	2015-00	8-6 S OF A3 1-0 E OF CA	-----	N/A
A205	C-0S1312	C-121-01871	E110	2015-00	A3 1-0 E OF CA	-----	N/A
A206	C-0S1312	C-121-01871	E110	2015-00	9-0 N OF A3 1-0 E OF CA	-----	N/A
A207	C-0S1312	C-121-01871	E110	2015-00	7-0 S OF A2 1-0 E OF CA	21051	A123
A208	C-0S1312	C-121-01871	E110	2015-00	A2 1-0 E OF CA	21051	A124
A209	C-0S1312	C-121-01871	E110	2015-00	1-0 S OF A1 7-9 E OF CA	-----	N/A
A210	C-0S1312	C-121-01871	E110	2015-00	1-0 S OF A1 AN	-----	N/A
A211	C-0S1312	C-121-01871	E110	2015-00	1-0 S OF A1 10-0 E OF AN	21051	A125/A126
A212	C-0S1312	C-121-01871	E110	2015-00	1-0 S OF A1 AM	-----	N/A
A213	C-0S1312	C-121-01871	E110	2015-00	1-0 S OF A1 10-0 E OF AM	21051	A127
A214	C-0S1312	C-121-01871	E110	2015-00	1-0 S OF A1 AK	21051	A120
A215	C-0S1312	C-121-01871	E110	2015-00	1-0 N OF A2 AK	21051	A393/A492
A216	C-0S1312	C-121-01871	E110	2015-00	1-0 N OF A2 10-0 W OF AK	21051	A394/A395
A217	C-0S1312	C-121-01871	E110	2015-00	1-0 N OF A2 AM	21051	A396/A491
A218	C-0S1312	C-121-01871	E110	2015-00	1-0 N OF A2 10-0 W OF AM	21051	A397/A398
A219	C-0S1312	C-121-01871	E110	2015-00	1-0 N OF A2 AN	21051	A399/A400
A220	C-0S1312	C-121-01871	E110	2015-00	A2 1-0 W OF AN	-----	A401/A490
A221	C-0S1312	C-121-01871	E110	2015-00	7-0 S OF A2 1-0 W OF AN	-----	A402
A222	C-0S1312	C-121-01871	E110	2015-00	9-0 N OF A3 1-0 W OF AN	-----	A403/A404
A223	C-0S1312	C-121-01871	E110	2015-00	A3 1-0 W OF AN	-----	A405/A489
A224	C-0S1312	C-121-01871	E110	2015-00	8-6 S OF A3 1-0 W OF AN	21051	A406
A225	C-0S1312	C-121-01871	E110	2015-00	7-6 N OF A4 1-0 W OF AN	21051	A407/A408
A226	C-0S1312	C-121-01871	E110	2015-00	A4 1-0 W OF AN	21350	A409/A488
A227	C-0S1312	C-121-01871	E110	2015-00	7-0 N OF A5 1-0 W OF AN	21052	A410/A411
A228	C-0S1312	C-121-01871	E110	2015-00	1-5 S OF A5 1-0 W OF AN	21052	A412/A413
A229	C-0S1312	C-121-01871	E110	2015-00	9-0 N OF A6 1-0 W OF AN	21052	A414/A415
A230	C-0S1312	C-121-01871	E110	2015-00	A6 1-0 W OF AN	21316	A416/A487
A231	C-0S1312	C-121-01871	E110	2015-00	10-0 S OF A6 1-0 W OF AN	21051	A417/A418
A232	C-0S1211	C-121-00973	E201	1988-00	2-0 N OF A14 6-8 W OF AK	21470	INACCESSIBLE
A233	C-0S1212	C-121-01789	E210	1989-08	9-0 S OF A12 1-0 E OF CA	20980	A421/A422
A234	C-0S1212	C-121-01789	E210	1989-08	A12 1-0 E OF CA	20980	A419/A420
A235	C-0S1212	C-121-01789	E210	1989-08	A12 1-0 W OF AN	20980	A423
A236	C-0S1212	C-121-01789	E210	1989-08	8-0 N OF A12 1-0 E OF CA	20980	A424/A425
A237	C-0S1212	C-121-01789	E210	1989-08	8-0 S OF A10 1-0 W OF AN	20979	A426
A238	C-0S1212	C-121-01789	E210	1989-08	A10 1-0 E OF CA	20980	A427
A239	C-0S1212	C-121-01789	E210	1989-08	A10 1-0 W OF AN	-----	N/A
A240	C-0S1212	C-121-01789	E210	1989-08	9-0 N OF A10 1-0 E OF CA	-----	N/A
A241	C-0S1212	C-121-01789	E210	1989-08	9-0 N OF A10 1-0 W OF AN	20979	A428
A242	C-0S1212	C-121-01789	E210	1989-08	7-6 N OF A9 1-0 E OF CA	20980	A429
A243	C-0S1212	C-121-01789	E210	1989-08	10-0 N OF A8 1-0 W OF AN	20980	A430/A431
A244	C-0S1212	C-121-01789	E210	1989-08	1-0 S OF A12 AN	-----	N/A
A245	C-0S1212	C-121-01789	E210	2015-00	A13 1-0 E OF CA	20980	A432
A246	C-0S1212	C-121-01789	E210	2015-00	A13 1-0 W OF AN	20980	A433/A434
A247	C-0S1212	C-121-01789	E210	2015-00	A11 1-0 W OF AN	20980	A435/A436
A248	C-0S1212	C-121-01789	E210	2015-00	8-0 N OF A11 1-0 W OF AN	20980	A437/A438
A249	C-0S1212	C-121-01789	E210	2015-00	A10 1-0 W OF AN	20980	A439/A440
A250	C-0S1212	C-121-01789	E210	2015-00	9-0 N OF A10 1-0 W OF AN	20980	A441/A442
A251	C-0S1212	C-121-01789	E210	2015-00	A9 1-0 W OF AN	20980	A443/A444
A252	C-0S1212	C-121-01789	E210	2015-00	1-0 N OF A9 4-4 E OF AN	20980	A445/A446

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.
A253	C-0S1212	C-121-01789	E210	2015-00	1-0 N OF A9	9-7 W OF AL	20980	A447/A448
A254	C-0S1212	C-121-01789	E210	2015-00	1-0 N OF A9	AL	20980	A449
A255	C-0S1212	C-121-01789	E210	2015-00	2-0 S OF A8	AL	20980	A450/A451
A256	C-0S1212	C-121-01789	E210	2015-00	2-0 S OF A8	9-7 W OF AL	20980	A452/A453
A257	C-0S1212	C-121-01789	E210	2015-00	2-0 S OF A8	4-4 E OF AN	20980	A454/A455
A258	C-0S1212	C-121-01789	E210	2015-00	7-0 N OF A9	1-0 E OF CA	20980	A456/A457
A259	C-0S1352	C-121-01685	E301	1989-00	3-0 S OF A3	1-0 E OF AE	21055	A345/A529
A260	C-0S1352	C-121-01685	E301	1989-00	A2.6	1-0 E OF AE	21055	A346
A261	C-0S1352	C-121-01685	E301	1989-00	A2	1-0 E OF AE	21465	A347/A844
A262	C-0S1352	C-121-01685	E301	1989-00	5-7 N OF A2	1-0 E OF AE	21465	A348/A845
A263	C-0S1352	C-121-01685	E301	1989-00	3-6 S OF A1	1-0 E OF AE	21055	A349
A264	C-0S1352	C-121-01685	E301	1989-00	0-6 N OF A3	1-0 W OF AC	21465	A350/A846
A265	C-0S1352	C-121-01685	E301	1989-00	3-6 N OF A3	1-0 W OF AC	21465	A351/A847
A266	C-0S1352	C-121-01685	E301	1989-00	A2.6	1-0 W OF AC	21055	A352
A267	C-0S1352	C-121-01685	E301	1989-00	5-0 N OF A26	1-0 W OF AC	21055	A353
A268	C-0S1352	C-121-01685	E301	1989-00	5-0 S OF A2	1-0 W OF AC	21055	A354
A269	C-0S1352	C-121-01685	E301	1989-00	A2	1-0 W OF AC	21465	A355/A848
A270	C-0S1352	C-121-01685	E301	1989-00	5-7 N OF A2	1-0 W OF AC	21054	A363/A364
A271	C-0S1352	C-121-01685	E301	1989-00	3-6 S OF A1	1-0 W OF AC	21055	A356
A272	C-0S1352	C-121-01685	E301	1989-00	5-0 S OF A2	1-0 E OF AC	21055	A357
A273	C-0S1352	C-121-01685	E301	1989-00	A2	1-0 E OF AC	21055	A358
A274	C-0S1352	C-121-01685	E301	1989-00	3-6 S OF A1	1-0 E OF AC	21055	A359
A275	C-0S1352	C-121-01871	E301	1989-00	3-6 N OF A3	1-0 W OF AA	21055	A360
A276	C-0S1352	C-121-01871	E301	1989-00	A2	1-0 W OF AA	21055	A361
A277	C-0S1352	C-121-01871	E301	1989-00	3-6 S OF A1	1-0 W OF AA	21055	A362
A278	C-0S1511	C-121-01622	FW821	2047-02	A13	AK	21489	INACCESSIBLE
A279	C-0S1511	C-121-01622	FW821	2047-02	A11	AK	21489	INACCESSIBLE
A280	C-0S1222	C-121-00127	E111	1989-08	A6	1-0 W OF AN	20994	A373/A374
A281	C-0S1222	C-121-00127	E111	1989-08	8-3 N OF A5	1-0 W OF AN	20994	A375/A376
A282	C-0S1222	C-121-00127	E111	1989-08	A4	1-0 E OF CA	-----	N/A
A283	C-0S1222	C-121-00127	E111	1989-08	1-0 N OF A2	10-0 E OF AN	20994	A377/A378
A284	C-0S1222	C-121-00127	E111	1989-08	1-0 N OF A2	AM	20993	A379
A285	C-0S1222	C-121-00127	E111	1989-08	2-0 S OF A1	AM	-----	N/A
A286	C-0S1222	C-121-00127	E111	1989-08	1-0 N OF A2	10-0 E OF AM	20994	A380/A381
A287	C-0S1222	C-121-00127	E111	1989-08	2-0 S OF A1	AK	20994	A382
A288	C-0S1242	C-121-00128	E112	2015-00	A3	1-0 E OF AK	21350	A843
A289	C-0S1242	C-121-00128	E112	2015-00	11-9 N OF A3	1-0 E OF AK	20991	A383/A384
A290	C-0S1242	C-121-00128	E112	2015-00	11-9 N OF A3	1-6 W OF AJ	20992	A385/A640
A291	C-0S1242	C-121-00128	E112	2015-00	A2	1-0 E OF AK	20991	A386
A292	C-0S1242	C-121-00128	E112	2015-00	1-0 S OF A1	AF	21350	A677/A678/A679
A293	C-0S1242	C-121-00128	E112	1989-8	A2	1-0 E OF AK	20991	A387/A388
A294	C-0S1242	C-121-00128	E112	1989-8	1-0 N OF A3	AJ	21350	A799
A295	C-0S1242	C-121-00128	E112	1989-8	2-0 S OF A1	0-6 E OF AH	20991	A389
A296	C-0S1242	C-121-00128	E112	1989-8	2-0 S OF A1	8-6 E OF AH	-----	N/A
A297	C-0S1242	C-121-00128	E112	1989-8	2-0 S OF A1	1-0 W OF AF	-----	N/A
A298	C-0S1242	C-121-00128	E112	1989-8	8-4 S OF A1	0-6 E OF AH	20992	A390
A299	C-0S1242	C-121-00128	E112	1989-8	8-4 S OF A1	8-6 E OF AH	20992	A391
A300	C-0S1242	C-121-00128	E112	1989-8	8-4 S OF A1	1-0 W OF AF	20992	A392
A301	C-0S1242	C-121-00980	E211	2016-02	1-0 N OF A14	AH3	21195	A756
A302	C-0S1242	C-121-00980	E211	2016-02	1-0 N OF A14	AJ	21195	A757
A303	C-0S1242	C-121-00980	E211	2016-02	A13	2-0 E OF AK	21195	A715

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.
A304	C-0S1242	C-121-00980	E211	2016-02	A11	2-0 E OF AK	-----	N/A
A305	C-0S1242	C-121-00980	E211	2016-02	8-0 N OF A11	2-0 E OF AK	21195	A716
A306	C-0S1242	C-121-00980	E211	2016-02	A10	2-0 E OF AK	-----	N/A
A307	C-0S1242	C-121-00980	E211	2016-02	8-0 N OF A10	2-0 E OF AK	-----	N/A
A308	C-0S1242	C-121-00980	E211	2016-02	A9	2-0 E OF AK	-----	N/A
A309	C-0S1242	C-121-00980	E211	2016-02	1-6 N OF A12	1-6 W OF AJ	21313	A786
A310	C-0S1242	C-121-00980	E211	2016-02	8-0 N OF A11	1-6 W OF AJ	21195	A717/A718
A311	C-0S1242	C-121-00980	E211	2016-02	A10	1-6 W OF AJ	21195	A719
A312	C-0S1242	C-121-00980	E211	2016-02	8-0 N OF A10	1-6 W OF AJ	21195	A720
A313	C-0S1242	C-121-00980	E211	2016-02	A9	1-6 W OF AJ	21195	A721/A722
A314	C-0S1242	C-121-00980	E211	2016-02	7-0 N OF A9	1-6 W OF AJ	-----	N/A
A315	C-0S1311	C-121-00130	E203	2000-00	A9	1-0 E OF CA	20924	A493/A494/A495/A496
A316	C-0S1311	C-121-00130	E203	2000-00	2-0 N OF A14	6-0 E OF CA	20933	A497/A498
A317	C-0S1311	C-121-00130	E203	2000-00	2-0 N OF A14	AN	20933	A517/A518/A519/A520
A318	C-0S1311	C-121-00130	E203	2000-00	2-0 N OF A14	AL	21352	A785
A319	C-0S1311	C-121-00130	E203	2000-00	2-0 N OF A14	7-8 E OF AL	20933	A521/A522/A780
A320	C-0S1311	C-121-00130	E203	2000-00	2-0 N OF A14	AK	20933	A499/A500
A321	C-0S1312	C-121-01871	E110	2015-00	1-0 N OF A9	AK	21350	A535/A536/A537/538
A322	C-0S1312	C-121-01871	E110	2015-00	1-0 N OF A9	8-5 E OF AL	21052	A539
A323	C-0S1312	C-121-01871	E110	2015-00	A8	2-0 E OF AL	21051	A540/A761
A324	C-0S1312	C-121-01871	E110	2015-00	A7	2-0 E OF AL	21051	A541
A325	C-0S1312	C-121-01871	E110	2015-00	A6	2-0 E OF AL	-----	N/A
A326	C-0S1321	C-121-00034	E103	2000-00	A4	1-0 E OF CA	20921	A479
A327	C-0S1321	C-121-00034	E103	2000-00	2-0 S OF A1	10-0 E OF AN	20922	A480/A481/A482/A526/A527/A528
A328	C-0S1321	C-121-00034	E103	2000-00	2-0 S OF A1	10-0 E OF AM	20922	A483/A484/A485/A486
A329	C-0S1331	C-121-01635	E204	2000-00	2-0 N OF A14	2-6 E OF AK	21399	A817
A330	C-0S1331	C-121-01635	E204	2000-00	2-0 N OF A14	2-6 W OF AJ	21399	A818
A331	C-0S1331	C-121-01635	E204	2000-00	2-0 N OF A14	3-6 W OF AG	21399	A819/A820/A821
A332	C-0S1352	C-121-01549	E302	2000-00	5-0 N OF A2.6	1-0 E OF AE	21050	A641
A333	C-0S1352	C-121-01549	E302	2000-00	5-0 S OF A2	1-0 E OF AE	21050	A642
A334	C-0S1352	C-121-01549	E302	2000-00	5-7 N OF A2	1-0 E OF AE	21050	A643
A335	C-0S1352	C-121-01549	E302	2000-00	4-2 S OF A1	1-0 E OF AE	21050	A644
A336	C-0S1352	C-121-01549	E302	2000-00	0-6 N OF A3	1-0 W OF AC	21050	A645
A337	C-0S1352	C-121-01549	E302	2000-00	5-0 N OF A2.6	1-0 W OF AC	21050	A646
A338	C-0S1352	C-121-01549	E302	2000-00	5-0 S OF A2	1-0 W OF AC	21050	A647
A339	C-0S1352	C-121-01549	E302	2000-00	0-6 N OF A3	1-0 E OF AC	21050	A648
A340	C-0S1352	C-121-01549	E302	2000-00	5-0 N OF A2.6	1-0 E OF AC	21050	A649
A341	C-0S1352	C-121-01549	E302	2000-00	5-0 S OF A2	1-0 E OF AC	21050	A650
A342	C-0S1352	C-121-01549	E302	2000-00	A2.6	1-0 W OF AA	21050	A651
A343	C-0S1352	C-121-01549	E302	2000-00	5-0 N OF A2.6	1-0 W OF AA	21050	A652
A344	C-0S1352	C-121-01549	E302	2000-00	5-0 S OF A2	1-0 W OF AA	21050	A653
A345	C-0S1352	C-121-01549	E302	2000-00	A2	1-0 W OF AA	21050	A654
A346	C-0S1352	C-121-01549	E302	2013-06	3-0 S OF A3	1-0 E OF AE	21049	A655/A656
A347	C-0S1352	C-121-01549	E302	2013-06	3-6 N OF A3	1-0 E OF AE	21049	A657/A688
A348	C-0S1352	C-121-01549	E302	2013-06	A2.6	1-0 E OF AE	21352	A781
A349	C-0S1352	C-121-01549	E302	2013-06	A3	1-0 W OF AC	21050	A658
A350	C-0S1352	C-121-01549	E302	2013-06	4-6 S OF A2.6	1-0 W OF AC	21050	A659
A351	C-0S1352	C-121-01549	E302	2013-06	A2.6	1-0 W OF AC	21352	A782
A352	C-0S1352	C-121-01549	E302	2013-06	4-6 S OF A2.6	1-0 E OF AC	21050	A660
A353	C-0S1352	C-121-01549	E302	2013-06	A2.6	1-0 E OF AC	21352	A783
A354	C-0S1352	C-121-01549	E302	2013-06	5-0 N OF A2.6	1-0 E OF AC	21050	A661

*JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.
A355	C-0S1352	C-121-01549	E302	2013-06	5-0 S OF A2	1-0 E OF AC	21050	A662
A356	C-0S1352	C-121-01549	E302	2013-06	A2	1-0 E OF AC	21050	A663
A357	C-0S1352	C-121-01549	E302	2013-06	5-7 N OF A2	1-0 E OF AC	21049	A664/A665
A358	C-0S1352	C-121-01549	E302	2013-06	3-6 S OF A1	1-0 E OF AC	21049	A666/A667
A359	C-0S1352	C-121-01549	E302	2013-06	3-0 S OF A3	1-0 W OF AA	21050	A668
A360	C-0S1352	C-121-01549	E302	2013-06	3-6 N OF A3	1-0 W OF AA	21049	A669/A670
A361	C-0S1352	C-121-01549	E302	2013-06	A2.6	1-0 W OF AA	21352	A784
A362	C-0S1352	C-121-01561	FW815	2013-06	0-6 N OF A2	4-4 W OF AC	20942	A513
A363	C-0S1352	C-121-01561	FW815	2013-06	2-0 S OF A1	AD	20942	A514
A364	C-0S1352	C-121-01561	FW815	2013-06	2-0 S OF A1	4-4 W OF AC	20943	A515/A516
A365	C-0S1352	C-121-01561	FW815	2013-06	C2	DA	21352	A800
A366	C-0S1352	C-121-01561	FW815	2013-06	C2	DA	21352	A801
A367	C-0S1352	C-121-01561	FW815	2013-06	C2.6	DA	21352	A802
A368	C-0S1352	C-121-01683	E809	2026-00	A2.6	1-0 E OF AE	21352	A685
A369	C-0S1411	C-121-00165	E205	2026-00	1-0 N OF A14	AK	21024	INACCESSIBLE
A370	C-0S1411	C-121-00165	E205	2026-00	1-0 N OF A14	8-4 W OF AK	21022	A581/A582
A371	C-0S1411	C-121-00165	E205	2026-00	1-0 N OF A14	AN	21023	A583/A584
A372	C-0S1411	C-121-00165	E205	2026-00	A9	1-0 E OF CA	21022	A585/A586/A587/A803
A373	C-0S1421	C-121-00971	E105	2026-00	1-0 S OF A1	2-6 E OF CA	20910	A501/A502/A503
A374	C-0S1421	C-121-00971	E105	2026-00	1-0 S OF A1	AN	20910	A504/A505/A506
A375	C-0S1421	C-121-00971	E105	2026-00	1-0 S OF A1	10-0 E OF AN	20910	A507/A508/A509
A376	C-0S1431	C-121-00617	E206	2026-00	1-0 N OF A14	AJ	21350	A808
A377	C-0S1431	C-121-00617	E206	2026-00	1-0 N OF A14	AH3	21118	A689/A690
A378	C-0S1431	C-121-00617	E206	2026-00	1-0 N OF A14	3-10 E OF AH2	21118	A691/A692
A379	C-0S1431	C-121-00617	E206	2026-00	7-0 S OF A13	1-0 W OF AG	21118	A693/A694
A380	C-0S1431	C-121-00617	E206	2026-00	1-0 N OF A13.1	AG	21352	A778
A381	C-0S1431	C-121-00617	E206	2026-00	1-0 N OF A13.1	AF6	21118	A695/A696
A382	C-0S1431	C-121-00617	E206	2026-00	1-0 N OF A13.1	11-2 E OF AF6	21118	A697/A698
A383	C-0S1431	C-121-00617	E206	2026-00	14-11 N OF A13.1	1-0 W OF AD1	21118	A699/A700
A384	C-0S1441	C-121-01700	E106	2026-00	1-0 S OF A1	AJ	20903	A458/A459
A385	C-0S1441	C-121-01700	E106	2026-00	1-0 S OF A1	11-6 E OF AJ	20903	A460/A461/A462
A386	C-0S1441	C-121-01700	E106	2026-00	1-0 S OF A1	AH	20903	A463/A464/A465/A466
A387	C-0S1441	C-121-01700	E106	2026-00	1-0 S OF A1	8-6 E OF AH	20903	A467/A468
A388	C-0S1441	C-121-01700	E106	2026-00	1-0 S OF A1	AF	20903	A469/A470
A389	C-0S1441	C-121-01700	E106	2026-00	11-0 S OF A2	1-0 W OF AE	21352	A639
A390	C-0S1521	C-121-00912	E401	2047-06	A7	1-0 E OF CA	21399	A875
A391	C-0S1211	C-121-00973	E201	1988-00	2-0 N OF A14	AK	21144	A702/A703
A392	C-0S1531	C-121-00629	E502	2047-06	1-0 N OF A14	1-2 E OF AH2	21009	A574/A671
A393	C-0S1531	C-121-00629	E502	2047-06	1-0 N OF A13.1	AG	21352	A876
A394	C-0S1531	C-121-00629	E502	2047-06	1-0 N OF A13.1	AF6	21009	A744
A395	C-0S1531	C-121-00629	E502	2047-06	1-0 N OF A13.1	2-6 W OF AD1	21009	A575/A576
A396	C-0S1531	C-121-00629	E502	2047-06	14-11 N OF A13.1	1-0 W OF AD1	21008	A672
A397	C-0S1621	C-121-00274	E403	2073-02	A5	1-0 E OF CA	20935	A523/A524
A398	C-0S1621	C-121-00274	E403	2073-02	A4	1-0 E OF CA	20936	A525/A809
A399	C-0S1621	C-121-00274	E403	2073-02	A3	1-0 E OF CA	20936	A542
A400	C-0S1212	C-121-01776	FW825	1989-08	6-1 N OF A14	AN	-----	N/A
A401	C-0S1212	C-121-01776	FW825	1989-08	A12	6-0 E OF CA	-----	N/A
A402	C-0S1212	C-121-01776	FW825	1989-08	5-3 S OF A9	7-9 E OF AN	20923	A510
A403	C-0S1212	C-121-01776	FW825	1989-08	5-3 S OF A9	7-9 W OF AL	20923	A511
A404	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A14	2-6 E OF AK	20907	A471
A405	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A14	2-6 W OF AJ	20907	A472

JOINT	ERECTION DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION No.
A406	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A14	AJ	20907	VOID SAME AS JOINT AA
A407	C-0S1231	C-121-00976	E202	1988-00	12-4 N OF A14	2-0 W OF AG	20907	A474
A408	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A13.1	AG	21352	INACCESSIBLE
A409	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A13.1	AE6	21352	INACCESSIBLE
A410	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A13.1	7-1 E OF AF6	21352	INACCESSIBLE
A411	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A13.1	10-7 W OF AD1	21352	INACCESSIBLE
A412	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A13.1	3-6 W OF AD1	20901	INACCESSIBLE
A413	C-0S1231	C-121-00976	E202	1988-00	11-7 N OF A13.1	2-0 W OF AD1	20902	A477/A478
A414	C-0S1241	C-121-00007	E801	1988-00	5-5 OF A2	6-0 W OF AF	-----	N/A
A415	C-0S1241	C-121-00007	E801	1988-00	5-5 .. OF A2	1-0 W OF AF	-----	N/A
A416	C-0S1241	C-121-00007	E801	1995-00	5-5 N OF A2	6-0 W OF AF	-----	N/A
A417	C-0S1452	C-121-10675	E702	2037-06	6-6 S OF A3	1-0 E OF AE	-----	A673
A418	C-0S1452	C-121-10675	E702	2037-06	A3	1-0 E OF AE	21352	A753
A419	C-0S1452	C-121-10675	E702	2037-06	8-9 S OF A2	1-0 E OF AE	20995	A593/A594
A420	C-0S1452	C-121-10675	E702	2041-10	8-9 S OF A2	1-0 E OF AE	20995	A595/A596
A421	C-0S1452	C-121-10675	E702	2041-10	A2	1-0 E OF AE	-----	N/A
A422	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	3-9 E OF AE	20995	A597/A598
A423	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	8-3 E OF AE	-----	N/A
A424	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	1-3 W OF AD	20995	A610
A425	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	1-3 E OF AD	-----	N/A
A426	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	3-9 E OF AD	-----	N/A
A427	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	3-9 W OF AC	-----	N/A
A428	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	2-0 W OF AC	20996	A611
A429	C-0S1452	C-121-10675	E702	2037-06	2-6 S OF A3	1-0 W OF AC	-----	N/A
A430	C-0S1452	C-121-10675	E702	2037-06	A3	1-0 W OF AC	20995	A599/A600
A431	C-0S1452	C-121-10675	E702	2037-06	8-9 S OF A2	1-0 W OF AC	20995	A601/A602
A432	C-0S1452	C-121-10675	E702	2041-10	8-9 S OF A2	1-0 W OF AC	20995	A603
A433	C-0S1452	C-121-10675	E702	2041-10	A2	1-0 W OF AC	20995	A604
A434	C-0S1452	C-121-10675	E702	2037-06	2-6 S OF A3	1-0 E OF AC	-----	N/A
A435	C-0S1452	C-121-10675	E702	2037-06	A3	1-0 E OF AC	20995	A605/A606
A436	C-0S1452	C-121-10675	E702	2037-06	8-9 S OF A2	1-0 E OF AC	20995	A607
A437	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	2-0 E OF AC	20996	A612
A438	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	3-9 E OF AC	20996	A615/A616
A439	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	8-3 E OF AC	20995	A613/A614
A440	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	1-3 W OF AB	20996	A617
A441	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	1-3 E OF AB	-----	N/A
A442	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	3-9 E OF AB	-----	N/A
A443	C-0S1452	C-121-10675	E702	2041-10	2-0 S OF A1	3-9 W OF AA	-----	N/A
A444	C-0S1452	C-121-10675	E702	2037-06	6-6 S OF A3	1-0 W OF AA	-----	N/A
A445	C-0S1452	C-121-10675	E702	2037-06	A3	1-0 W OF AA	20995	A608/A609
A446	C-0S1211	C-121-00961	FW812	1988-00	5-0 S OF A8	AN	-----	N/A
A447	C-0S1211	C-121-00961	FW812	1988-00	5-0 S OF A8	7-9 E OF AN	-----	N/A
A448	C-0S1211	C-121-00961	FW812	1988-00	4-6 S OF A5	7-9 E OF AN	-----	N/A
A449	C-0S1211	C-121-00961	FW812	1988-00	4-6 S OF A5	4-5 W OF AM	-----	N/A
A450	C-0S1211	C-121-00961	FW812	1988-00	A10	3-6 W OF AJ	-----	N/A
A451	C-0S1211	C-121-00961	FW812	1988-00	7-0 N OF A10	7-0 W OF AJ	-----	N/A
A452	C-0S1211	C-121-00961	FW812	1988-00	7-0 N OF A10	AJ	-----	N/A
A453	C-0S1211	C-121-00961	FW812	1988-00	6-6 N OF A9	7-0 W OF AJ	21351	A810
A454	C-0S1211	C-121-00961	FW812	1988-00	6-6 N OF A9	AJ	-----	N/A
A455	C-0S1211	C-121-01621	FW820	1988-00	0-9 N OF A13	AL	21020	A546
A456	C-0S1211	C-121-01621	FW820	1988-00	0-9 N OF A13	6-8 W OF AK	21020	A547

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.	
A457	C-0S1241	C-121-00962	FW813	1988-00	A3	AF	21010	A553	
A458	C-0S1241	C-121-00962	FW813	1988-00	11-0 S OF A2	AF	21010	A554/A555	
A459	C-0S1511	C-121-01636	E501	2047-02	1-0 N OF A14	AL	21044	A632/A804	
A460	C-0S1511	C-121-01636	E501	2047-02	1-0 N OF A14	AK	21044	A633/A634/A754/A755	
A461	C-0S1211	C-121-01780	FW827	1988-00	6-9 N OF A14	AL	21007	A548	
A462	C-0S1211	C-121-01780	FW827	1988-00	6-9 N OF A14	6-8 W OF AK	21007	A549	
A463	C-0S1211	C-121-01780	FW827	1988-00	6-3 S OF A13	AL	21007	A550	
A464	C-0S1211	C-121-01780	FW827	1988-00	6-3 S OF A13	6-8 W OF AK	21007	A551	
A465	C-0S1241	C-121-01945	FW839	1988-00	9-3 N OF A7	AK	20998	A556	
A466	C-0S1241	C-121-01945	FW839	1988-00	9-3 N OF A7	1-6 E OF AJ1	21352	A557/A758	
A467	C-0S1241	C-121-01945	FW839	1988-00	9-3 N OF A7	1-0 W OF AJ	21352	A558/A759	
A468	C-0S1211	C-121-01976	FW841	1988-00	5-3 N OF A9	3-4 W OF AK	-----	N/A	
A469	C-0S1211	C-121-01976	FW841	1988-00	5-3 N OF A9	AK	21006	A552	
A470	C-0S1641	C-121-01883	FW838	2073-02	1-7 N OF A3.3	1-0 W OF AE	21045	A635/A636	
A471	C-0S1641	C-121-01883	FW838	2073-02	A3	1-0 W OF AE	21045	A637/A638	
A472	C-0S1641	C-121-01883	FW838	2073-02	A2	1-0 W OF AE	21674	A882/A883	
A473	C-0S1313	C-121-01884	E601	2011-06	12-10 S OF A11	1-0 W OF AD1	21000	A588	
A474	C-0S1313	C-121-01884	E601	2011-06	4-5 S OF A11	1-0W OF AD1	20999	A589	
A475	C-0S1313	C-121-01884	E601	2011-06	A11	AG	21000	A590	
A476	C-0S1313	C-121-01884	E601	2011-06	8-6 S OF A9	1-6 E OF AJ	20999	A591	
A477	C-0S1313	C-121-01884	E601	2011-06	1-11 N OF A9	1-6 E OF AJ	21000	A592	
A478	C-0S1313	C-121-01885	E602	2012-03	1-6 N OF A5	2-5 W OF AH4	-----	N/A	
A479	C-0S1313	C-121-01885	E602	2012-03	1-6 N OF A5	4-9 E OF AH4	21352	A532	
A480	C-0S1313	C-121-01885	E602	2012-03	1-8 N OF A3.3	1-0 W OF AE	21005	A533	
A481	C-0S1313	C-121-01885	E602	2012-03	8-5 N OF A3.3	1-0 W OF AE	21005	A534	
A482	C-0S1019	C-121-00978	E208	2062-05	1-0 N OF A14	AJ	21021	A618/A619	
A483	C-0S1019	C-121-00978	E208	2062-05	1-0 N OF A14	AH3	21021	A620	
A484	C-0S1221	C-121-01773	FW824	1988-00	5-3 S OF A5	7-0 W OF AJ	21399	A840	
A485	C-0S1221	C-121-01773	FW824	1988-00	5-3 S OF A5	AJ	-----	N/A	
A486	C-0S1221	C-121-01773	FW824	1988-00	5-0 N OF A6	7-9 W OF AL	-----	N/A	
A487	C-0S1221	C-121-01773	FW824	1988-00	5-0 N OF A6	AL	-----	N/A	
A488	C-0S1221	C-121-01773	FW824	1988-00	5-0 N OF A6	8-4 E OF AL	-----	N/A	
A489	C-0S1221	C-121-01773	FW824	1988-00	6-3 S OF A5	7-9 W OF AL	-----	N/A	
A490	C-0S1221	C-121-01773	FW824	1988-00	6-3 S OF A5	AL	-----	N/A	
A491	C-0S1221	C-121-01773	FW824	1988-00	6-3 S OF A5	8-4 E OF AL	-----	VOID	NO CONNECTION REQUIRED
A492	C-0S1014	C-121-01790	E811	2030-00	5-6 S OF A1	1-0 E OF AE	21025	A621	
A493	C-0S1014	C-121-01790	E811	2030-00	2-10 S OF A1	1-0 E OF AE	21025	A622	
A494	C-0S1014	C-121-01790	E811	2030-00	2-0 S OF A1	AD	21025	A623	
A495	C-0S1014	C-121-01790	E811	2030-00	5-6 S OF A1	1-0 W OF AC	21025	A624	
A496	C-0S1014	C-121-01790	E811	2030-00	2-10 S OF A1	1-0 W OF AC	21025	A625	
A497	C-0S1014	C-121-01790	E811	2030-00	5-6 S OF A1	1-0 E OF AC	21025	A626	
A498	C-0S1014	C-121-01790	E811	2030-00	2-10 S OF A1	1-0 E OF AC	21025	A627	
A499	C-0S1014	C-121-01790	E811	2030-00	2-0 S OF A1	AB	21025	A628	
A500	C-0S1014	C-121-01790	E811	2030-00	5-6 S OF A1	1-0 W OF AA	21025	A629	
A501	C-0S1014	C-121-01790	E811	2030-00	2-10 S OF A1	1-0 W OF AA	21025	A630	
A502	C-0S1751	C-121-12026	E706	2102-06	1-9 S OF A2	AE	21004	A559/A560	
A503	C-0S1751	C-121-12026	E706	2102-06	1-9 S OF A2	6-0 E OF AE	21003	A561	
A504	C-0S1751	C-121-12026	E706	2102-06	1-9 S OF A2	AD	21004	A562/A563	
A505	C-0S1751	C-121-12026	E706	2102-06	1-9 S OF A2	6-0 E OF AD	21004	A564/A565	
A506	C-0S1751	C-121-12026	E706	2102-06	1-9 S OF A2	AC	21003	A566	
A507	C-0S1751	C-121-12026	E706	2102-06	1-9 S OF A2	6-0 E OF AC	21004	A567/A568	

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.
A508	C-0S1751	C-121-12026	E706	2102-06	1-9 S OF A2	AB	21003	A569
A509	C-0S1751	C-121-12026	E706	2102-06	1-9 S OF A2	6-0 E OF AB	21004	A570/A571
A510	C-0S1751	C-121-12026	E706	2102-06	1-9 S OF A2	AA	2 003	A572
A511	C-0S1541	C-121-00627	E402	2047-06	10-6 S OF A2	1-0 W OF AE	21352	A798
A512	C-0S1221	C-121-01773	FW824	1988-00	4-0 N OF A5	AM	21220	A725
A513	C-0S1221	C-121-01773	FW824	1988-00	4-0 N OF A5	7-2 E OF AM	-----	N/A
A514	C-0S1241	C-121-10657	FW834	1988-00	0-8 N OF A3.1	1-0 W OF AE	-----	N/A
A515	C-0S1241	C-121-10657	FW834	1988-00	A3	1-0 W OF AE	-----	N/A
A516	C-0S1441	C-121-01700	E106	2026-00	A5	AH4	21352	INACCESSIBLE
A517	C-0S1621	C-121-00274	E403	2073-04	A6.3	1-0 E OF CA	21352	A806
A518	C-0S1452	C-121-10731	E705	2090-00	4-6 S OF A3	0-6 E OF AE	21352	A787
A519	C-0S1452	C-121-10731	E705	2090-00	A3	0-6 E OF AE	21352	A788
A520	C-0S1452	C-121-10731	E705	2090-00	6-3 N OF A2.6	0-6 E OF AE	21352	A789
A521	C-0S1452	C-121-10731	E705	2090-00	3-9 N OF A2	0-6 E OF AE	21352	A790
A522	C-0S1452	C-121-10731	E705	2090-00	2-6 S OF A3	0-6 E OF AE	21352	A791
A523	C-0S1452	C-121-10731	E705	2090-00	A3	AC	21352	A792
A524	C-0S1452	C-121-10731	E705	2090-00	6-3 N OF A2.6	AC	21352	A793
A525	C-0S1452	C-121-10731	E705	2090-00	3-9 N OF A2	AC	21352	A794
A526	C-0S1452	C-121-10731	E705	2090-00	4-6 S OF A3	1-0 W OF AA	21212	A708
A527	C-0S1452	C-121-10731	E705	2090-00	AE	1-0 W OF AA	21212	A709/A710
A528	C-0S1452	C-121-10731	E705	2090-00	6-3 N OF A2.6	1-0 W OF AA	21212	A711/A712
A529	C-0S1452	C-121-10731	E705	2090-00	3-9 N OF A2	1-0 W OF AA	21212	A713/A714
A530	C-0S1751	C-121-12027	E707	2089-04	6-0 S OF A2	1-0 W OF AE	-----	N/A
A531	C-0S1751	C-121-12027	E707	2086-01	6-0 S OF A2	1-0 W OF AE	-----	N/A
A532	C-0S1751	C-121-12027	E707	2089-04	1-0 N OF A2	1-0 W OF AE	-----	N/A
A533	C-0S1751	C-121-12027	E707	2086-01	1-0 N OF A2	1-0 W OF AE	-----	N/A
A534	C-0S1019	C-121-00978	E208	2038-04	1-0 N OF A14	AH3	21399	A822/A823
A535	C-0S1019	C-121-00978	E208	2038-04	1-0 N OF A14	5-11 E OF AH3	21399	A824/A825
A536	C-0S1019	C-121-00978	E208	2038-04	1-0 N OF A14	2-6 W OF AG	21399	A826/A827
A537	C-0S1019	C-121-00978	E208	2038-04	11-0 N OF A14	1-0 W OF AG	21399	A828
A538	C-0S1211	C-121-00961	FW812	1988-0	10-8 S OF A7	5-0 E OF AJ1	-----	N/A
A539	C-0S1751	C-121-12026	E706	2096-03	1-9 S OF A2	2-6 E OF AA	-----	N/A
A540	C-0S1751	C-121-12027	E707	2096-10	1-9 N OF A2	AE	21169	A707
A541	C-0S1906	C-131-05794	58-E1	2069-04	A1	2-6 E OF AA	-----	N/A
A542	C-0S1906	C-131-05794	58-E1	2073-01	A1	2-6 E OF AA	-----	N/A
A543	C-0S1906	C-131-05794	58-E1	2076-10	A1	2-6 E OF AA	-----	N/A
A544	C-0S1906	C-131-05794	58-E1	2080-07	A1	2-6 E OF AA	-----	N/A
A545	C-0S1906	C-131-05794	58-E1	2084-04	A1	2-6 E OF AA	-----	N/A
A546	C-0S1906	C-131-05794	58-E1	2069-04	A1	3-10 W OF AB	-----	N/A
A547	C-0S1906	C-131-05794	58-E1	2073-01	A1	3-10 W OF AB	-----	N/A
A548	C-0S1906	C-131-05794	58-E1	2076-10	A1	3-10 W OF AB	-----	N/A
A549	C-0S1906	C-131-05794	58-E1	2080-07	A1	3-10 W OF AB	-----	N/A
A550	C-0S1906	C-131-05794	58-E1	2084-04	A1	3-10 W OF AB	-----	N/A
A551	C-0S1906	C-131-05794	58-E1	2069-04	A1	2-6 E OF AB	-----	N/A
A552	C-0S1906	C-131-05794	58-E1	2073-01	A1	2-6 E OF AB	-----	N/A
A553	C-0S1906	C-131-05794	58-E1	2076-10	A1	2-6 E OF AB	-----	N/A
A554	C-0S1906	C-131-05794	58-E1	2080-07	A1	2-6 E OF AB	-----	N/A
A555	C-0S1906	C-131-05794	58-E1	2084-04	A1	2-6 E OF AB	-----	N/A
A556	C-0S1906	C-131-05794	58-E1	2069-04	A1	3-10 W OF AC	-----	N/A
A557	C-0S1906	C-131-05794	58-E1	2073-01	A1	3-10 W OF AC	-----	N/A
A558	C-0S1906	C-131-05794	58-E1	2076-10	A1	3-10 W OF AC	-----	N/A

JOINT	RECTIFIED DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.
A559	C-051906	C-131-05794	58-E1	2080-07	A1	3-10 W OF AG	-----	N/A
A560	C-051906	C-131-05794	58-E1	2084-04	A1	3-10 W OF AC	-----	N/A
A561	C-051906	C-131-05794	58-E1	2069-04	A1	2-6 E OF AC	-----	N/A
A562	C-051906	C-131-05794	58-E1	2073-01	A1	2-7 E OF AC	-----	N/A
A563	C-051906	C-131-05794	58-E1	2076-10	A1	2-6 E OF AC	-----	N/A
A564	C-051906	C-131-05794	58-E1	2080-07	A1	2-6 E OF AC	-----	N/A
A565	C-051906	C-131-05794	58-E1	2084-04	A1	2-6 E OF AC	-----	N/A
A566	C-051906	C-131-05794	58-E1	2069-04	A1	3-10 W OF AD	-----	N/A
A567	C-051906	C-131-05794	58-E1	2073-01	A1	3-10 W OF AD	-----	N/A
A568	C-051906	C-131-05794	58-E1	2076-10	A1	3-10 W OF AD	-----	N/A
A569	C-051906	C-131-05794	58-E1	2080-07	A1	3-10 W OF AD	-----	N/A
A570	C-051906	C-131-05794	58-E1	2084-04	A1	3-10 W OF AD	-----	N/A
A571	C-051906	C-131-05794	58-E1	2069-04	A1	2-6 E OF AD	-----	N/A
A572	C-051906	C-131-05794	58-E1	2073-01	A1	2-6 E OF AD	-----	N/A
A573	C-051906	C-131-05794	58-E1	2076-10	A1	2-6 E OF AD	-----	N/A
A574	C-051906	C-131-05794	58-E1	2080-07	A1	2-6 E OF AD	-----	N/A
A575	C-051906	C-131-05794	58-E1	2084-04	A1	2-6 E OF AD	-----	N/A
A576	C-051906	C-131-05794	58-E1	2069-04	A1	3-10 W OF AE	-----	N/A
A577	C-051906	C-131-05794	58-E1	2073-01	A1	3-10 W OF AE	-----	N/A
A578	C-051906	C-131-05794	58-E1	2076-10	A1	3-10 W OF AE	-----	N/A
A579	C-051906	C-131-05794	58-E1	2080-07	A1	3-10 W OF AE	-----	N/A
A580	C-051906	C-131-05794	58-E1	2069-04	A1	3-10 W OF AE	-----	N/A
A581	C-051352	C-121-01549	E302	2013-06	2-0 S OF A1	AD	21224	A723
A582	C-051352	C-121-01549	E302	2013-06	A2	1-0 W OF AA	21224	A724
A583	C-051908	C-131-05798	31-E2	2029-00	1-0 N OF AB	14-4 W OF AL	-----	N/A
A584	C-051908	C-131-05798	31-E2	2029-00	1-0 S OF A7	14-4 W OF AL	-----	N/A
A585	C-051908	C-131-05798	31-E2	2029-00	7-7 N OF A8	1-0 W OF AL	21236	A731/A732
A586	C-051908	C-131-05798	31-E2	2029-00	9-0 S OF A7	1-0 W OF AL	-----	N/A
A587	C-051908	C-131-05798	31-E2	2029-00	5-7 S OF A7	1-0 W OF AL	21236	A733
A588	C-051908	C-131-05798	31-E2	2029-00	1-0 N OF A7	7-11 W OF AL	-----	N/A
A589	C-051908	C-131-05798	31-E2	2029-00	1-0 S OF A6	7-11 W OF AL	-----	N/A
A590	C-051908	C-131-05798	31-E2	2029-00	5-10 N OF A7	1-0 W OF AL	-----	N/A
A591	C-051908	C-131-05798	31-E2	2029-00	9-0 N OF A7	1-0 W OF AL	-----	N/A
A592	C-051908	C-131-05798	31-E2	2029-00	7-10 S OF A6	1-0 W OF AL	21236	A734
A593	C-051909	C-131-05799	31-E3	2041-00	1-0 N OF A8	8-9 W OF AL	-----	N/A
A594	C-051909	C-131-05799	31-E3	2041-00	1-0 S OF A7	8-9 W OF AL	-----	N/A
A595	C-051909	C-131-05799	31-E3	2041-00	7-10 N OF A8	1-0 W OF AL	21237	A729/A730
A596	C-051909	C-131-05799	31-E3	2041-00	5-10 S OF A7	1-0 W OF AL	-----	N/A
A597	C-051909	C-131-05799	31-E3	2041-00	1-0 N OF A7	8-9 W OF AL	-----	N/A
A598	C-051909	C-131-05799	31-E3	2041-00	1-0 S OF A6	8-9 W OF AL	-----	N/A
A599	C-051909	C-131-05799	31-E3	2041-00	5-10 N OF A7	1-0 W OF AL	-----	N/A
A600	C-051909	C-131-05799	31-E3	2041-00	7-10 S OF A6	1-0 W OF AL	-----	N/A
A601	C-051352	C-121-10639	FW833	2030-00	1-0 N OF A1	9-6 W OF AC	-----	N/A
A602	C-051352	C-121-10639	FW833	2030-00	1-6 S OF A0	9-6 W OF AC	21470	A701/A760
A603	C-051352	C-121-10639	FW833	2030-00	1-0 N OF A1	4-0 W OF AC	-----	N/A
A604	C-051352	C-121-10639	FW833	2030-00	1-6 S OF A0	4-0 W OF AC	-----	N/A
A605	C-051352	C-121-10639	FW833	2030-00	1-0 N OF A1	4-0 E OF AC	-----	N/A
A606	C-051352	C-121-10639	FW833	2030-00	1-6 S OF A0	4-0 E OF AC	-----	N/A
A607	C-051352	C-121-10639	FW833	2030-00	1-0 N OF A1	8-0 E OF AC	-----	N/A
A608	C-051352	C-121-10639	FW833	2030-00	1-6 S OF A0	3-0 E OF AC	-----	N/A
A609	C-051452	C-121-10675	E702	2041-10	A2	3-9 E OF AE	21273	A736

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.	
A610	C-0S1452	C-121-10675	E702	2041-10	A2	3-9 W OF AD	21273	A737	
A611	C-0S1452	C-121-10675	E702	2041-10	A2	3-9 E OF AD	21273	A738	
A612	C-0S1452	C-121-10675	E702	2041-10	A2	3-9 W OF AC	21273	A739	
A613	C-0S1452	C-121-10675	E702	2041-10	A2	3-9 E OF AC	21273	A740	
A614	C-0S1452	C-121-10675	E702	2041-10	A2	3-9 W OF AB	21273	A741	
A615	C-0S1452	C-121-10675	E702	2041-10	A2	3-9 W OF AB	21273	A742	
A616	C-0S1452	C-121-10675	E702	2041-10	A2	3-9 W OF AA	21273	A743	
A617	C-0S1313	C-121-01886	FW1	2011-06	A10	AH.2	21287	A762	
A618	C-0S1313	C-121-01886	FW1	2011-06	A10	AH.2	21287	A763	
A619	C-0S1313	C-121-01886	FW1	2011-06	A10.9	AF6	21287	A764	
A620	C-0S1313	C-121-01886	FW1	2011-06	A10.9	AF6	21287	A765	
A621	C-0S1313	C-121-10886	FW1	2011-06	A10.9	AF6	-----	N/A	
A622	C-0S1313	C-121-01887	FW2	2011-06	A11	AG	21272	A746	
A623	C-0S1313	C-121-01887	FW2	2011-06	A11	AG	-----	N/A	
A624	C-0S1313	C-121-01887	FW2	2011-06	A11	AG	21399	A807	
A625	C-0S1313	C-121-01887	FW2	2012-03	A3.3	AF	21272	A747	
A626	C-0S1313	C-121-01887	FW2	2012-03	A3.3	AF	-----	N/A	
A627	C-0S1313	C-121-01887	FW2	2012-03	A3.3	AF	21272	A748	
A628	C-0S1313	C-121-01887	FW2	2012-03	A3.9	AH1	21272	A749	
A629	C-0S1313	C-121-01887	FW2	2012-03	A3.9	AH1	21272	A750	
A630	C-0S1313	C-121-01887	FW2	2012-03	A3.9	AH1	21272	A751	
A631	C-0S1313	C-121-01887	FW2	2012-03	A3.9	AH1	-----	N/A	
A632	C-0S1313	C-121-01887	FW2	2012-03	A3	AF	-----	N/A	
A633	C-0S1313	C-121-01887	FW2	2012-03	A3	AF	21399	A872	
A634	C-0S1313	C-121-01887	FW2	2012-03	A3	AF	21272	A752	
A635	C-0S1313	C-121-01887	FW2	2012-03	A3	AF	21399	A842	
A636	C-0S1313	C-121-01886	FW1	2011-06	A8.9	AH5	21287	A766	
A637	C-0S1313	C-121-01886	FW1	2011-06	A8.9	AH5	-----	N/A	
A638	C-0S1313	C-121-01886	FW1	2011-06	A8.9	AH5	-----	N/A	
A639	C-0S1313	C-121-01886	FW1	2011-06	A10	AH2	-----	N/A	
A640	C-0S1452	C-121-00934	E704	2055-06	0-4 N OF A3	1-0 E OF AE	21288	A767/A851/A852/A853	
A641	C-0S1452	C-121-00934	E704	2055-06	0-4 N OF A3	1-0 W OF AC	21288	A768/A769/A854/A855	
A642	C-0S1452	C-121-00934	E704	2055-06	6-0 N OF A2.6	1-0 E OF AE	21288	A770/A771/A856/A857	
A643	C-0S1452	C-121-00934	E704	2055-06	6-0 N OF A2.6	1-0 W OF AC	21288	A772/A858/A859/A860	
A644	C-0S1452	C-121-00934	E704	2055-06	0-4 N OF A3	1-0 E OF AC	21288	A773/A861/A862/A863	
A645	C-0S1452	C-121-00934	E704	2055-06	0-4 N OF A3	1-0 W OF AA	21288	A774/A864/A865/A866	
A646	C-0S1452	C-121-00934	E704	2055-06	6-0 N OF A2.6	1-0 E OF AC	21288	A775/A776/A867/A868	
A647	C-0S1452	C-121-00934	E704	2055-06	6-0 N OF A2.6	1-0 W OF AA	21288	A777/A869/A870/A871	
A648	C-0S1452	C-121-10731	E705	2090-00	2-6 S OF A3	0-6 W OF AC	21352	A795	
A649	C-0S1441	C-121-01790	E106	2026-00	0-6 S OF A5	AJ	21399	INACCESSIBLE	FCR 1-0360-C
A650	C-0S1212	C-121-01789	E210	1989-08	0-6 S OF A12	AN	21399	INACCESSIBLE	NCR 1SN0738C
A651	C-0S1751	C-121-12026	E706	2096-03	5-5 S OF A3.1	2-0 E OF AA	-----	N/A	NCR 1SN3753C
A652	C-0S1641	C-121-01929	E404	2073-02	16-0 S OF A3	8-6 E OF AH	21399	A831	NCR 1SN1283C
A653	C-0C1232			1988-00	3-3 N OF A11	5-4 W OF AG	21399	A832	NCR 1SN2154C
A654	C-0S1014	C-121-01790	E811	2030-00	2-0 S OF A1	5-6 E OF AE	-----	N/A	NCR 1SN6117C
A655	C-0S1014	C-121-01790	E811	2030-00	2-0 S OF A1	5-6 W OF AC	-----	N/A	NCR 1SN6117C
A656	C-0S1014	C-121-01790	E811	2030-00	2-0 S OF A1	5-6 E OF AC	-----	N/A	NCR 1SN6117C
A657	C-0S1014	C-121-01790	E811	2030-00	2-0 S OF A1	5-6 W OF AA	-----	N/A	NCR 1SN6117C
A658	C-0S1352	C-121-10639	FW833	2030-00	2-6 N OF A1	9-6 W OF AC	-----	N/A	NCR 1SN6795C
A659	C-0S1352	C-121-10639	FW833	2030-00	5-6 N OF A1	9-6 W OF AC	-----	N/A	NCR 1SN6795C
A660	C-0S1352	C-121-10639	FW833	2030-00	2-6 N OF A1	4-0 W OF AC	-----	N/A	NCR 1SN6795C

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.	
A661	C-0S1352	C-121-10639	FW833	2030-00	5-6 N OF A1	4-0 W OF AC	-----	N/A	NCR 1SN6795C
A662	C-0C1232			1988-00	1-9 N OF A11	3-9 W OF AG	21399	A833	NCR 1SN2154C
A663	C-0S1751	C-121-12027	E707	2093-0	5-5 S OF A3.1	0-6 W OF AE	-----	N/A	NCR 1SN3753C
A664	C-0S1241	C-121-10657	FW834	1973-03	A3.1	2-6 W OF AE	21399	A834	FAB REQ. C-1050
A665	C-0S1241	C-121-10657	FW834	1973-03	A3	2-6 W OF AE	21399	A835	FAB REQ. C-1050
A666	C-0S1242	C-121-00128	E112	1989-08	A2	AJ	-----	N/A	FAB REQ.
A667	C-0S1242	C-121-00128	E112	1989-08	A2	AH	21399	INACCESSIBLE	FAB REQ.
A668	C-0S1452	C-121-10675	E702	2042-00	A2	2-0 E OF AE	-----	N/A	FAB REQ. 505
A669	C-0S1452	C-121-10675	E702	2042-00	8-9 S OF A2	AB	-----	N/A	FAB REQ.
A670	C-0S1452	C-121-10675	E702	2042-00	8-9 S OF A2	AD	-----	INACCESSIBLE	FAB REQ. 479
A671	C-0S1452	C-121-10675	E702	2042-00	0-6 S OF A2	AD	-----	N/A	FAB REQ. 462
A672	C-0S1751	C-121-01979	A702	2096-03	11-0 N OF A3.1	2-0 E OF AA	-----	N/A	FAB REQ. 634
A673	C-0S1751	C-121-01979	A702	2096-03	14-0 N OF A3.1	2-0 E OF AA	-----	N/A	FAB REQ. 634
A674	C-0S1751	C-121-01979	A702	2096-03	11-0 N OF A3.1	2-0 E OF AA	-----	N/A	FAB REQ. 634
A675	C-0S1751	C-121-01979	A702	2096-03	14-0 N OF A3.1	2-0 E OF AA	-----	N/A	FAB REQ. 634
A676	C-0S1751	C-121-01979	A702	2096-03	11-0 N OF A3.1	2-0 E OF AA	-----	N/A	FAB REQ. 634
A677	C-0S1751	C-121-01979	A702	2096-03	14-0 N OF A3.1	2-0 E OF AA	-----	N/A	FAB REQ. 634
A678	C-0S1452	C-121-0936	759	2042-00	0-9 N OF A2	3-9 E OF AD	-----	N/A	FAB REQ. 501
A679	C-0S1452	C-121-0936	759	2042-00	A2	3-0 E OF AD	-----	N/A	FAB REQ. 501
A680	C-0S1452	C-121-0936	759	2042-00	6-7 N OF A2	AD	-----	N/A	FAB REQ. 501
A681	C-0S1452	C-121-10675	E702	2042-00	0-6 N OF A2	AD	-----	N/A	
A682	C-0S1352	C-121-01683	E809	2026-00	A2	1-0 E OF AE	21352	A873	
A683	C-0S1452	C-121-10675	E702	2042-00	2-0 S OF A1	2-0 E OF AE	21399	A837	
A684	C-0S1452	C-121-10675	E702	2042-00	2-0 S OF A1	2-0 W OF AA	21399	A838	
A685	C-0S1531			2047-06	7-2 N OF A8	AJ	-----	N/A	NCR 1SN3779C
A686	C-0S1531			2047-06	7-2 N OF A8	AK	-----	N/A	NCR 1SN3779C
A687	C-0S1531			2047-06	A8	AJ	21399	INACCESSIBLE	NCR 1SN3779C
A688	C-0S1531			2047-06	6-0 N OF A8	AJ	-----	N/A	NCR 1SN3779C
A689	C-0S1532			2047-06	7-4 S OF A10.9	11-2 E OF AF6	-----	N/A	FAB REQ. 717
A690	C-0S1241	C-121-10657	FW834	1985-00	A3.1	2-6 W OF AE	-----	N/A	FAB REQ. C-1050
A691	C-0S1241	C-121-10657	FW834	1985-00	A3	2-6 W OF AE	-----	N/A	FAB REQ. C-1050
AA	C-0S1231	C-121-00976	E202	1988-00	2-0 N OF A14	AJ	20568	A005	SAME AS A406
AB	C-0S1411	C-121-00165	E205	2026-00	1-0 N OF A14	10-8 W OF AL	20568	A002/A003	SAME AS A002
AC	C-0S1452	C-121-10675	E702	2037-06	8-9 S OF A2	1-0 W OF AA	20568	A006/A007	
AD	C-0S1511	C-121-01636	E501	2047-02	1-0 N OF A14	8-4 E OF AL	20568	A004	
AE	C-0S1521	C-121-00912	E401	2047-06	1-0 S OF A1	AK	20568	A001	SAME AS A037
AF	C-0S1531	C-121-00629	E502	2047-06	1-0 N OF A14	AJ	20495	A008	

----- END REPORT -----

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STRUCTURAL JOINTS TRACKING

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JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION	NCR	EVALUATION NO.	
R001	C-0S2411	C-121-08504	E101			21170	R089/R090/R667	
R002	C-0S2411	C-121-08504	E101			21170	R091	
R003	C-0S2411	C-121-08504	E101			21170	R092	
R004	C-0S2411	C-121-08504	E101			21170	R121	
R005	C-0S2411	C-121-08504	E101			21170	R093	
R006	C-0S2411	C-121-08504	E101			21170	R122	
R007	C-0S2411	C-121-08504	E101			21170	R094/R095	
R008	C-0S2411	C-121-08504	E101			21170	R096	
R009	C-0S2411	C-121-08504	E101			21170	R097/R098	
R010	C-0S2411	C-121-08506	E102			21078	R099/R100	
R011	C-0S2411	C-121-08506	E102			21078	R101/R102	
R012	C-0S2411	C-121-08506	E102			21078	VOID	SAME AS RB
R013	C-0S2411	C-121-08606	E102			21375	R621/R622	
R014	C-0S2411	C-121-08506	E102			21078	R105/R106	
R015	C-0S2411	C-121-08506	E102			21078	R107	
R016	C-0S2421	C-121-13001	E103			21080	R123/R124/R125	
R017	C-0S2421	C-121-13001	E103			21080	R126	
R018	C-0S2421	C-121-13001	E103			21080	R127	
R019	C-0S2421	C-121-13001	E103			21080	R128	
R020	C-0S2421	C-121-13001	E103			21406	R637	
R021	C-0S2511	C-121-08908	E105			21406	R645/R646	
R022	C-0S2511	C-121-08908	E105			21406	R638/R639	
R023	C-0S2511	C-121-08908	E105			21406	R649	
R024	C-0S2511	C-121-08908	E105			21406	R650/R651	
R025	C-0S2511	C-121-08908	E105			21406	R644	
R026	C-0S2511	C-121-08908	E105			-----	INACCESSIBLE	
R027	C-0S2511	C-121-08577	E106			-----	INACCESSIBLE	
R028	C-0S2511	C-121-08577	E106			-----	INACCESSIBLE	
R029	C-0S2511	C-121-08577	E106			-----	INACCESSIBLE	
R030	C-0S2511	C-121-08577	E106			21116	R108/R109/R111	
R031	C-0S2511	C-121-08577	E106			21116	R113	
R032	C-0S2511	C-121-08577	E106			21116	R170	
R033	C-0S2511	C-121-08577	E106			21116	R171	
R034	C-0S2521	C-121-08576	E108			21117	R137/R138	
R035	C-0S2521	C-121-08576	E108			21117	R139/R140	
R036						-----	N/A	NCR 1SN2793C
R037	C-0S2521	C-121-08576	E108			21117	R141/R142/R143	
R038	C-0S2521	C-121-08576	E108			21117	R144/R145/R146	
R039	C-0S2611	C-121-13093	E109			21072	R114/R115	
R040	C-0S2611	C-121-13093	E109			21072	R116/R691	
R041	C-0S2611	C-121-13093	E109			21072	R117	
R042	C-0S2611	C-121-13093	E109			21072	R118	
R043	C-0S2611	C-121-13093	E109			21072	R129	
R044	C-0S2611	C-121-13093	E109			21078	R131	
R045	C-0S2611	C-121-13093	E109			21072	R119	
R046	C-0S2611	C-121-13093	E109			21072	R132/R133/R169	
R047	C-0S2611	C-121-13093	E109			21072	R134	
R048	C-0S2621	C-121-08523	E111			21077	R120	
R049	C-0S2621	C-121-08523	E111			21077	R135/R136	

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAN	ELEVATON.	LOCATION	NCR	EVALUATION NO.
R050	C-0S2311	C-121-08549	E601			21085	R245/R246/R247/R248
R051	C-0S2311	C-121-08549	E601			21085	R249/R250/R251
R052	C-0S2311	C-121-08549	E601			21073	R252/R253
R053	C-0S2311	C-121-08549	E601			21085	R254/R255/R256
R054	C-0S2311	C-121-08549	E601			21085	R257/R258/R259/R260
R055	C-0S2311	C-121-08549	E601			21085	R261/R262/R263
R056	C-0S2311	C-121-08549	E601			21085	R264/R265/R266/R267
R057	C-0S2311	C-121-08549	E601			21085	R268/R269/R270/R271
R058	C-0S2311	C-121-08549	E601			-----	N/A
R059	C-0S2311	C-121-08786	E604			21076	R272/R273/R274/R275
R060	C-0S2311	C-121-08786	E604			21074	R276/R277
R061	C-0S2311	C-121-08786	E604			-----	N/A
R062	C-0S2311	C-121-08786	E604			-----	N/A
R063	C-0S2311	C-121-08786	E604			-----	N/A
R064	C-0S2311	C-121-08786	E604			-----	N/A
R065	C-0S2311	C-121-08887	E605			-----	N/A
R066	C-0S2311	C-121-08887	E605			-----	N/A
R067	C-0S2311	C-121-08887	E605			-----	N/A
R068	C-0S2311	C-121-08887	E605			-----	N/A
R069	C-0S2311	C-121-08887	E605			21084	R278/R279
R070	C-0S2311	C-121-08887	E605			21084	R280/R281
R071	C-0S2311	C-121-08887	E605			21084	R282
R072	C-0S2311	C-121-08887	E605			21084	R283/R284
R073	C-0S2312	C-121-08982	E610			21075	R177
R074	C-0S2312	C-121-08982	E610			21075	R178
R075	C-0S2312	C-121-08982	E610			-----	N/A
R076	C-0S2312	C-121-08982	E610			-----	N/A
R077	C-0S2411	C-121-08504	E101			21170	R179
R078	C-0S2411	C-121-08504	E101			21170	R180/R181
R079	C-0S2411	C-121-08504	E101			21170	R182/R183
R080	C-1S2313	C-0X-2905				-----	N/A
R081	C-0S2904	C-121-08543	E124			21170	R298
R082	C-0S2904	C-121-08543	E124			21170	R299
R083	C-1S2313	C-0X-2905				-----	N/A
R084	C-1S2313	C-0X-2905				-----	N/A
R085	C-0S2904	C-121-08543	E124			21170	R300
R086	C-0S2904	C-121-08543	E124			21170	R301
R087	C-0S2904	C-121-08543	E124			21170	R302
R088	C-0S2904	C-121-08543	E124			21170	R303
R089	C-0S2421	C-121-08510	E104			21081	R210/R211
R090	C-0S2421	C-121-08510	E104			21081	R212
R091	C-0S2421	C-121-08510	E104			21081	R213
R092	C-0S2421	C-121-08510	E104			21081	R214
R093	C-0S2421	C-121-08510	E104			21081	R215
R094	C-0S2421	C-121-08510	E104			21081	R216
R095	C-0S2421	C-121-08510	E104			21081	R217
R096	C-0S2421	C-121-08510	E104			21081	R219/R221
R097	C-0S2421	C-121-08510	E104			21081	R222/R223
R098	C-0S2421	C-121-08510	E104			-----	N/A
R099	C-0S2421	C-121-08510	E104			21081	R224
R100	C-0S2421	C-121-13001	E103			-----	N/A

JOINT	ERECTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.	
R101	C-0S2421	C-121-13001	E103			21080	R232	
R102	C-0S2421	C-121-13001	E103			21080	R233/R234	
R103	C-0S2421	C-121-13001	E103			21080	R235/R236	
R104	C-0S2421	C-121-13001	E103			21080	R237	
R105	C-0S2421	C-121-13258	FW14			-----	N/A	
R106	C-0S2511	C-121-08909	E105			21096	R317	
R107	C-0S2511	C-121-08909	E105			-----	N/A	
R108	C-0S2511	C-121-08909	E105			21096	R315/R316	
R109	C-0S2511	C-121-08909	E105			21096	R318	
R110	C-0S2511	C-121-08577	E106			21116	R307	
R111	C-0S2511	C-121-08577	E106			-----	VOID	SAME AS R139
R112	C-0S2511	C-121-08577	E106			-----	VOID	BOLTED
R113	C-0S2511	C-121-08577	E106			21116	R304/R305/R306	
R114	C-0S2511	C-121-08577	E106			21116	R308	
R115	C-0S2511	C-121-08577	E106			21116	R309	
R116	C-0S2511	C-121-08577	E106			21116	R310	
R117	C-0S2511	C-121-08577	E106			21116	R311	
R118	C-0S2511	C-121-08577	E106			21116	R312	
R119	C-0S2511	C-121-08577	E106			21116	R313	
R120	C-0S2511	C-121-08577	E106			21116	R314	
R121	C-0S2521	C-121-08912	E107			-----	N/A	
R122	C-0S2521	C-121-08912	E107			-----	N/A	
R123	C-0S2521	C-121-08912	E107			-----	N/A	
R124	C-0S2521	C-121-08912	E107			-----	N/A	
R125	C-0S2521	C-121-08912	E107			-----	N/A	
R126	C-0S2521	C-121-08912	E107			21115	R319/R320/R321	
R127	C-0S2521	C-121-08912	E107			21115	R322/R323/R358	
R128	C-0S2521	C-121-08912	E107			21115	R324	
R129	C-0S2521	C-121-08912	E107			21115	R325/R326	
R130	C-0S2521	C-121-08912	E107			21115	R327/R328	
R131	C-0S2521	C-121-08912	E107			-----	N/A	
R132	C-0S2521	C-121-08912	E107			21115	R329	
R133	C-0S2521	C-121-08912	E107			21115	R330	
R134	C-0S2521	C-121-13069	E125			21089	R194	
R135	C-0S2521	C-121-13069	E125			21089	R195	
R136	C-0S2521	C-121-13069	E125			21089	R196	
R137	C-0S2521	C-121-13069	E125			21089	R197	
R138	C-0S2521	C-121-13069	E125			21089	R198	
R139	C-0S2521	C-121-13069	E125			21089	R199	
R140	C-0S2521	C-121-13069	E125			21089	R200	
R141	C-0S2521	C-121-13069	E125			21089	R201	
R142	C-0S2521	C-121-13069	E125			21089	R202	
R143	C-0S2521	C-121-13069	E125			21089	R203	
R144	C-0S2521	C-121-13069	E125			R1089	R205	
R145	C-0S2521	C-121-13069	E125			21089	R206	
R146	C-0S2521	C-121-13069	E125			21089	R207	
R147	C-0S2521	C-121-13069	E125			21089	R208	
R148	C-0S2521	C-121-13069	E125			21089	R209	
R149	C-0S2521	C-121-08576	E108			21117	R331	
R150	C-0S2521	C-121-08576	E108			21117	R332	
R151	C-0S2521	C-121-08576	E108			21117	R333	

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION	NCR	EVALUATION NO.	
R152	C-0S2521	C-121-08576	E108			21117	R334/R335	
R153	C-0S2521	C-121-08576	E108			21117	R336	
R154	C-0S2521	C-121-08576	E108			21117	R337/R338	
R155	C-0S2521	C-121-08576	E108			-----	VOID	BEAM DELETED
R156	C-0S2521	C-121-08576	E108			-----	VOID	BEAM DELETED
R157	C-0S2521	C-121-08576	E108			21117	R339/R340	
R158	C-0S2521	C-121-08576	E108			21117	R341	
R159	C-0S2521	C-121-08576	E108			21117	R342	
R160	C-0S2521	C-121-08576	E108			21117	R343/R344	
R161	C-0S2611	C-121-13093	E109			21072	R188/R189	
R162	C-0S2611	C-121-13093	E109			21072	R190	
R163	C-0S2611	C-121-13093	E109			21072	R191/R192	
R164	C-0S2611	C-121-13093	E109			21072	R193	
R165	C-0S2611	C-121-08625	E110			21082	R184/R185/R186	
R166	C-0S2611	C-121-08625	E110			21082	R187	
R167	C-0S2621	C-121-08523	E111			21077	R173/R174/R591	
R168	C-0S2621	C-121-08523	E111			21077	R175/R176	
R169	C-0S2904	C-121-08543	E124			20509	R671	
R170	C-0S2904	C-121-08543	E124			20509	R672	
R171	C-0S2904	C-121-08543	E124			20509	R673	
R172	C-0S2904	C-121-08543	E124			20509	R674	
R173	C-0S2904	C-121-08543	E124			21290	R297	
R174	C-0S2904	C-121-08543	E124			20509	R675	
R175	C-0S2904	C-121-08543	E124			-----	INACCESSIBLE	
R176	C-0S2904	C-121-08543	E124			-----	INACCESSIBLE	
R177	C-0S2411	C-121-08506	E102			21078	R236/R237	
R178	C-0S2411	C-121-08506	E102			21078	R240/R241	
R179	C-0S2411	C-121-08506	E102			21078	R242	
R180	C-0S2311	C-0X-2901				-----	N/A	
R181	C-0S2311	C-0X-2901				-----	N/A	
R182	C-0S2311	C-0X-2901				-----	N/A	
R183	C-0S2311	C-0X-2901				-----	N/A	
R184	C-0S2311	C-0X-2901				-----	N/A	
R185	C-0S2311	C-0X-2901				-----	N/A	
R186	C-0S2311	C-0X-2901				-----	N/A	
R187	C-0S2311	C-0X-2901				-----	N/A	
R188	C-0S2311	C-0X-2901				-----	N/A	
R189	C-0S2311	C-0X-2901				-----	N/A	
R190	C-0S2311	C-0X-2901				-----	N/A	
R191	C-0S2311	C-0X-2901				-----	N/A	
R192	C-0S2311	C-0X-2901				-----	N/A	
R193	C-0S2311	C-0X-2902				-----	N/A	
R194	C-0S2311	C-0X-2902				-----	N/A	
R195	C-0S2311	C-0X-2902				21375	INACCESSIBLE	
R196	C-0S2311	C-0X-2902				-----	N/A	
R197	C-0S2311	C-0X-2902				-----	N/A	
R198	C-0S2311	C-0X-2902				-----	N/A	
R199	C-0S2311	C-0X-2902				21375	INACCESSIBLE	
R200	C-0S2311	C-0X-2902				21375	INACCESSIBLE	
R201	C-0S2311	C-0X-2902				-----	N/A	
R202	C-0S2311	C-0X-2902				-----	N/A	

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION	NCR	EVALUATION NO.
R203	C-0S2311	C-0X-2902				-----	N/A
R204	C-0S2311	C-0X-2902				21079	R345
R205	C-0S2311	C-0X-2902				-----	N/A
R206	C-0S2311	C-0X-2902				-----	N/A
R207	C-0S2311	C-0X-2902				-----	N/A
R208	C-0S2311	C-0X-2902				-----	N/A
R209	C-0S2311	C-0X-2902				21375	N/A
R210	C-0S2311	C-0X-2902				-----	N/A
R211	C-0S2311	C-0X-2902				-----	N/A
R212	C-0S2311	C-0X-2902				21375	N/A
R213	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R214	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R215	C-0S2311	C-0X-2902				-----	N/A
R216	C-0S2311	C-0X-2902				-----	N/A
R217	C-0S2311	C-0X-2902				-----	N/A
R218	C-0S2311	C-0X-2902				-----	N/A
R219	C-0S2311	C-0X-2902				-----	N/A
R220	C-0S2311	C-0X-2902				-----	N/A
R221	C-0S2311	C-0X-2902				-----	N/A
R222	C-0S2311	C-0X-2902				21083	R574
R223	C-0S2311	C-0X-2902				21083	R346
R224	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R225	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R226	C-0S2311	C-0X-2902				21375	N/A
R227	C-0S2311	C-0X-2902				21375	R635
R228	C-0S2311	C-0X-2902				-----	N/A
R229	C-0S2311	C-0X-2902				-----	N/A
R230	C-0S2311	C-0X-2902				-----	N/A
R231	C-0S2311	C-0X-2902				21375	N/A
R232	C-0S2311	C-0X-2902				-----	N/A
R233	C-0S2311	C-0X-2902				-----	N/A
R234	C-0S2311	C-0X-2902				-----	N/A
R235	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R236	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R237	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R238	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R239	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R240	C-0S2311	C-0X-2902				21375	R575
R241	C-0S2311	C-0X-2902				-----	N/A
R242	C-0S2311	C-0X-2902				21375	R576
R243	C-0S2311	C-0X-2902				21375	R577
R244	C-0S2311	C-0X-2902				21083	R578
R245	C-0S2311	C-0X-2902				21375	R579
R246	C-0S2311	C-0X-2902				21375	R580
R247	C-0S2311	C-0X-2902				21375	R581
R248	C-0S2311	C-0X-2902				21083	R582
R249	C-0S2311	C-0X-2902				-----	N/A
R250	C-0S2311	C-0X-2902				-----	N/A
R251	C-0S2311	C-0X-2902				-----	N/A
R252	C-0S2311	C-0X-2902				21083	R347
R253	C-0S2311	C-0X-2902				21375	R583

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION	NCR	EVALUATION NO.
R254	C-0S2311	C-0X-2902				21375	R584
R255	C-0S2311	C-0X-2902				21375	INACCESSIBLE
R256	C-0S2902	C-0X-2904				-----	N/A
R257	C-0S2902	C-0X-2904				-----	N/A
R258	C-0S2902	C-0X-2904				-----	N/A
R259	C-0S2902	C-0X-2904				-----	N/A
R260	C-0S2902	C-0X-2904				-----	N/A
R261	C-0S2902	C-0X-2904				-----	N/A
R262	C-0S2902	C-0X-2904				-----	N/A
R263	C-1S2313	C-0X-2905				-----	N/A
R264	C-1S2313	C-0X-2905				-----	N/A
R265	C-1S2313	C-0X-2905				-----	N/A
R266	C-1S2313	C-0X-2905				-----	N/A
R267	C-1S2313	C-0X-2905				-----	N/A
R268	C-1S2313	C-0X-2905				-----	N/A
R269	C-1S2313	C-0X-2905				-----	N/A
R270	C-1S2313	C-0X-2905				21375	N/A
R271	C-1S2313	C-0X-2905				21375	R354
R272	C-1S2313	C-0X-2905				21375	R355
R273	C-1S2313	C-0X-2905				-----	N/A
R274	C-1S2313	C-0X-2905				-----	N/A
R275	C-1S2313	C-0X-2905				21375	R612
R276	C-1S2313	C-0X-2905				-----	N/A
R277	C-1S2313	C-0X-2905				-----	N/A
R278	C-1S2313	C-0X-2905				-----	N/A
R279	C-1S2313	C-0X-2905				-----	N/A
R280	C-1S2313	C-0X-2905				-----	N/A
R281	C-1S2313	C-0X-2905				-----	N/A
R282	C-1S2313	C-0X-2905				-----	N/A
R283	C-1S2313	C-0X-2905				-----	N/A
R284	C-1S2313	C-0X-2905				-----	N/A
R285	C-1S2313	C-0X-2905				-----	N/A
R286	C-1S2313	C-0X-2905				-----	N/A
R287	C-1S2313	C-0X-2905				-----	N/A
R288	C-1S2313	C-0X-2905				-----	N/A
R289	C-1S2313	C-0X-2905				-----	N/A
R290	C-1S2313	C-0X-2905				-----	N/A
R291	C-1S2313	C-0X-2905				-----	N/A
R292	C-1S2313	C-0X-2905				-----	N/A
R293	C-1S2313	C-0X-2905				21377	N/A
R294	C-1S2313	C-0X-2905				21377	N/A
R295	C-1S2313	C-0X-2905				21377	N/A
R296	C-1S2313	C-0X-2905				21377	N/A
R297	C-1S2313	C-0X-2905				-----	N/A
R298	C-1S2313	C-0X-2905				-----	N/A
R299	C-1S2313	C-0X-2905				21377	N/A
R300	C-1S2313	C-0X-2905				21377	N/A
R301	C-1S2313	C-0X-2905				21377	N/A
R302	C-1S2313	C-0X-2905				-----	N/A
R303	C-1S2313	C-0X-2905				21377	N/A
R304	C-1S2313	C-0X-2905				21377	N/A

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION	NCR	EVALUATION NO.
R305	C-1S2312	C-1X-2925				-----	N/A
R306	C-1S2312	C-1X-2925				-----	N/A
R307	C-1S2312	C-1X-2925				-----	N/A
R308	C-1S2312	C-1X-2925				-----	N/A
R309	C-1S2313	C-0X-2505				-----	N/A
R310	C-1S2313	C-0X-2905				-----	N/A
R311	C-1S2313	C-0X-2905				-----	N/A
R312	C-1S2313	C-0X-2905				-----	N/A
R313	C-1S2313	C-0X-2905				-----	N/A
R314	C-1S2313	C-0X-2905				-----	N/A
R315	C-1S2313	C-0X-2905				21377	N/A
R316	C-1S2313	C-0X-2905				21377	N/A
R317	C-1S2313	C-0X-2905				21377	N/A
R318	C-1S2313	C-1X-2950				-----	N/A
R319	C-0S2511	C-1X-2950				-----	N/A
R320	C-0S2511	C-1X-2950				-----	N/A
R321	C-0S2511	C-1X-2950				-----	N/A
R322	C-0S2511	C-1X-2950				-----	N/A
R323	C-0S2511	C-1X-2950				-----	N/A
R324	C-0S2511	C-1X-2950				21377	N/A
R325	C-0S2511	C-1X-2950				-----	N/A
R326	C-0S2314	C-0X-2912				-----	N/A
R327	C-0S2314	C-0X-2912				-----	N/A
R328	C-0S2314	C-0X-2912				-----	N/A
R329	C-0S2314	C-0X-2912				-----	N/A
R330	C-0S2314	C-0X-2912				-----	N/A
R331	C-0S2314	C-0X-2912				-----	N/A
R332	C-0S2314	C-0X-2912				-----	N/A
R333	C-0S2314	C-0X-2912				-----	N/A
R334	C-0S2314	C-0X-2912				-----	N/A
R335	C-0S2314	C-0X-2912				21114	R287
R336	C-0S2314	C-0X-2912				-----	N/A
R337	C-0S2314	C-0X-2912				-----	N/A
R338	C-0S2314	C-0X-2912				21114	R288
R339	C-0S2314	C-0X-2912				-----	N/A
R340	C-0S2314	C-0X-2912				-----	N/A
R341	C-0S2314	C-0X-2912				-----	N/A
R342	C-0S2314	C-0X-2912				-----	N/A
R343	C-0S2314	C-0X-2912				-----	N/A
R344	C-0S2314	C-0X-2912				-----	N/A
R345	C-0S2314	C-0X-2912				-----	N/A
R346	C-0S2314	C-0X-2912				-----	N/A
R347	C-0S2314	C-0X-2912				-----	N/A
R348	C-0S2314	C-0X-2912				-----	N/A
R349	C-0S2314	C-0X-2912				-----	N/A
R350	C-0S2314	C-0X-2912				-----	N/A
R351	C-0S2314	C-0X-2912				-----	N/A
R352	C-0S2314	C-0X-2912				-----	N/A
R353	C-0S2314	C-0X-2912				-----	N/A
R354	C-0S2314	C-0X-2912				-----	N/A
R355	C-0S2314	C-0X-2912				-----	N/A

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.
R356	C-0S2314	C-0X-2912				-----	N/A
R357	C-0S2314	C-0X-2912				-----	N/A
R358	C-0S2314	C-0X-2912				-----	N/A
R359	C-0S2314	C-0X-2912				-----	N/A
R360	C-0S2314	C-0X-2912				-----	N/A
R361	C-0S2314	C-0X-2912				-----	N/A
R362	C-0S2314	C-0X-2912				21114	R290
R363	C-0S2314	C-0X-2912				21114	R291
R364	C-0S2314	C-0X-2912				-----	N/A
R365	C-0S2314	C-0X-2912				-----	N/A
R366	C-0S2314	C-0X-2912				-----	N/A
R367	C-0S2314	C-0X-2912				-----	N/A
R368	C-0S2314	C-0X-2912				-----	N/A
R369	C-0S2314	C-0X-2912				-----	N/A
R370	C-0S2314	C-0X-2912				21114	R292
R371	C-0S2314	C-0X-2912				-----	N/A
R372	C-0S2314	C-0X-2912				-----	N/A
R373	C-0S2314	C-0X-2912				-----	N/A
R374	C-0S2314	C-0X-2912				-----	N/A
R375	C-0S2314	C-0X-2912				-----	N/A
R376	C-0S2314	C-0X-2912				-----	N/A
R377	C-0S2314	C-0X-2912				-----	N/A
R378	C-0S2314	C-0X-2912				-----	N/A
R379	C-0S2314	C-0X-2912				-----	N/A
R380	C-0S2314	C-0X-2912				-----	N/A
R381	C-0S2314	C-0X-2912				-----	N/A
R382	C-0S2314	C-0X-2912				-----	N/A
R383	C-0S2314	C-0X-2912				-----	N/A
R384	C-0S2314	C-0X-2912				-----	N/A
R385	C-0S2314	C-0X-2912				-----	N/A
R386	C-0S2314	C-0X-2912				-----	N/A
R387	C-0S2314	C-0X-2912				-----	N/A
R388	C-0S2314	C-0X-2912				21406	R620
R389	C-0S2314	C-0X-2912				-----	N/A
R390	C-0S2314	C-0X-2912				-----	N/A
R391	C-0S2314	C-0X-2912				-----	N/A
R392	C-0S2314	C-0X-2912				-----	N/A
R393	C-0S2314	C-0X-2912				-----	N/A
R394	C-0S2314	C-0X-2912				-----	N/A
R395	C-0S2314	C-0X-2912				21406	R619
R396	C-0S2314	C-0X-2912				-----	N/A
R397	C-0S2314	C-0X-2912				-----	N/A
R398	C-0S2314	C-0X-2912				-----	N/A
R399	C-0S2314	C-0X-2912				-----	N/A
R400	C-0S2314	C-0X-2912				-----	N/A
R401	C-0S2314	C-0X-2912				-----	N/A
R402	C-0S2314	C-0X-2912				-----	N/A
R403	C-0S2314	C-0X-2912				-----	N/A
R404	C-0S2314	C-0X-2912				-----	N/A
R405	C-0S2314	C-0X-2912				-----	N/A
R406	C-0S2314	C-0X-2912				-----	N/A

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION	NCR	EVALUATION NO.
R407	C-0S2314	C-0X-2912				-----	N/A
R408	C-0S2314	C-0X-2912				-----	N/A
R409	C-0S2314	C-0X-2912				-----	N/A
R410	C-0S2314	C-0X-2912				-----	N/A
R411	C-0S2314	C-0X-2912				-----	N/A
R412	C-0S2314	C-0X-2912				-----	N/A
R413	C-0S2314	C-0X-2912				-----	N/A
R414	C-0S2314	C-0X-2912				-----	N/A
R415	C-0S2314	C-0X-2912				-----	N/A
R416	C-0S2314	C-0X-2912				21114	R294
R417	C-0S2314	C-0X-2912				21114	R295
R418	C-0S2314	C-0X-2912				-----	N/A
R419	C-0S2314	C-0X-2912				-----	N/A
R420	C-0S2314	C-0X-2912				-----	N/A
R421	C-0S2314	C-0X-2912				-----	N/A
R422	C-0S2314	C-0X-2912				21114	R296
R423	C-0S2314	C-0X-2912				-----	N/A
R424	C-0S2314	C-0X-2912				-----	N/A
R425	C-0S2314	C-0X-2912				-----	N/A
R426	C-0S2314	C-0X-2912				-----	N/A
R427	C-0S2314	C-0X-2912				-----	N/A
R428	C-0S2314	C-0X-2912				-----	N/A
R429	C-1S2313	C-0X-2905				-----	N/A
R430	C-1S2313	C-0X-2905				-----	N/A
R431	C-1S2313	C-0X-2905				-----	N/A
R432	C-1S2313	C-0X-2905				-----	N/A
R433	C-1S2313	C-0X-2905				-----	N/A
R434	C-1S2313	C-0X-2905				-----	N/A
R435	C-1S2313	C-0X-2905				21377	N/A
R436	C-1S2313	C-0X-2905				21377	N/A
R437	C-1S2313	C-0X-2905				-----	N/A
R438	C-1S2313	C-0X-2905				-----	N/A
R439	C-1S2313	C-0X-2905				-----	N/A
R440	C-1S2313	C-0X-2905				-----	N/A
R441	C-1S2313	C-0X-2905				-----	N/A
R442	C-1S2313	C-0X-2905				-----	N/A
R443	C-1S2313	C-0X-2905				-----	N/A
R444	C-1S2313	C-0X-2905				21131	R356
R445	C-1S2313	C-0X-2905				-----	N/A
R446	C-1S2313	C-0X-2905				-----	N/A
R447	C-1S2313	C-0X-2905				-----	N/A
R448	C-1S2313	C-0X-2905				-----	N/A
R449	C-1S2313	C-0X-2905				-----	N/A
R450	C-1S2313	C-0X-2905				-----	N/A
R451	C-1S2313	C-0X-2905				-----	N/A
R452	C-1S2313	C-0X-2905				-----	N/A
R453	C-1S2313	C-0X-2905				-----	N/A
R454	C-1S2313	C-0X-2905				-----	N/A
R455	C-1S2313	C-0X-2905				-----	N/A
R456	C-1S2313	C-0X-2905				21131	R357
R457	C-1S2313	C-0X-2905				-----	N/A

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION	NCR	EVALUATION NO.
R458	C-1S2313	C-0X-2905				-----	N/A
R459	C-1S2313	C-0X-2905				-----	N/A
R460	C-1S2313	C-0X-2905				-----	N/A
R461	C-1S2313	C-0X-2905				-----	N/A
R462	C-0S2315	C-0X-2914				-----	N/A
R463	C-0S2315	C-0X-2914				-----	N/A
R464	C-0S2315	C-0X-2914				-----	N/A
R465	C-0S2315	C-0X-2914				-----	N/A
R466	C-0S2315	C-0X-2914				-----	N/A
R467	C-0S2315	C-0X-2914				-----	N/A
R468	C-0S2315	C-0X-2914				-----	N/A
R469	C-0S2315	C-0X-2914				-----	N/A
R470	C-0S2315	C-0X-2914				-----	N/A
R471	C-0S2315	C-0X-2914				-----	N/A
R472	C-0S2315	C-0X-2914				-----	N/A
R473	C-0S2315	C-0X-2914				-----	N/A
R474	C-0S2315	C-0X-2914				-----	N/A
R475	C-0S2315	C-0X-2914				-----	N/A
R476	C-0S2315	C-0X-2914				-----	N/A
R477	C-0S2315	C-0X-2914				-----	N/A
R478	C-0S2315	C-0X-2914				-----	N/A
R479	C-0S2315	C-0X-2914				21289	R348
R480	C-0S2315	C-0X-2914				-----	N/A
R481	C-0S2315	C-0X-2914				-----	N/A
R482	C-0S2315	C-0X-2914				-----	N/A
R483	C-0S2315	C-0X-2914				-----	N/A
R484	C-0S2315	C-0X-2914				-----	N/A
R485	C-0S2315	C-0X-2914				-----	N/A
R486	C-0S2315	C-0X-2914				-----	N/A
R487	C-0S2315	C-0X-2914				-----	N/A
R488	C-0S2315	C-0X-2914				-----	N/A
R489	C-0S2315	C-0X-2914				-----	N/A
R490	C-0S2315	C-0X-2914				-----	N/A
R491	C-0S2315	C-0X-2914				-----	N/A
R492	C-0S2315	C-0X-2914				-----	N/A
R493	C-0S2315	C-0X-2914				-----	N/A
R494	C-0S2315	C-0X-2914				-----	N/A
R495	C-0S2315	C-0X-2914				-----	N/A
R496	C-0S2315	C-0X-2914				-----	N/A
R497	C-0S2315	C-0X-2914				-----	N/A
R498	C-0S2315	C-0X-2914				-----	N/A
R499	C-0S2315	C-0X-2914				-----	N/A
R500	C-0S2315	C-0X-2914				-----	N/A
R501	C-0S2315	C-0X-2914				21289	R349
R502	C-0S2315	C-0X-2914				-----	N/A
R503	C-0S2315	C-0X-2914				-----	N/A
R504	C-0S2315	C-0X-2914				-----	N/A
R505	C-0S2315	C-0X-2914				-----	N/A
R506	C-0S2315	C-0X-2914				-----	VOID NO WELD REQUIRED
R507	C-0S2315	C-0X-2914				-----	N/A
R508	C-0S2315	C-0X-2914				-----	N/A

*JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.	
R509	C-0S2315	C-0X-2914				-----	N/A	
R510	C-0S2315	C-0X-2914				-----	N/A	
R511	C-0S2315	C-0X-2914				-----	N/A	
R512	C-0S2315	C-0X-2914				-----	N/A	
R513	C-0S2315	C-0X-2914				21289	R351	
R514	C-0S2315	C-0X-2914				-----	N/A	
R515	C-0S2315	C-0X-2914				-----	N/A	
R516	C-0S2315	C-0X-2914				-----	N/A	
R517	C-0S2315	C-0X-2914				-----	N/A	
R518	C-0S2315	C-0X-2914				-----	N/A	
R519	C-0S2315	C-0X-2914				-----	N/A	
R520	C-0S2315	C-0X-2914				-----	N/A	
R521	C-0S2315	C-0X-2914				-----	N/A	
R522	C-0S2315	C-0X-2914				-----	N/A	
R523	C-0S2315	C-0X-2914				-----	N/A	
R524	C-0S2315	C-0X-2914				-----	N/A	
R525	C-0S2315	C-0X-2914				-----	VOID	NO WELD REQUIRED
R526	C-0S2315	C-0X-2914				-----	N/A	
R527	C-0S2315	C-0X-2914				-----	N/A	
R528	C-0S2315	C-0X-2914				-----	N/A	
R529	C-0S2315	C-0X-2914				-----	N/A	
R530	C-0S2315	C-0X-2914				-----	N/A	
R531	C-0S2315	C-0X-2914				-----	N/A	
R532	C-0S2315	C-0X-2914				-----	N/A	
R533	C-0S2315	C-0X-2914				-----	N/A	
R534	C-0S2315	C-0X-2914				-----	N/A	
R535	C-0S2315	C-0X-2914				-----	N/A	
R536	C-0S2315	C-0X-2914				-----	N/A	
R537	C-0S2315	C-0X-2914				-----	N/A	
R538	C-0S2315	C-0X-2914				-----	N/A	
R539	C-0S2315	C-0X-2914				-----	N/A	
R540	C-0S2315	C-0X-2914				-----	N/A	
R541	C-0S2315	C-0X-2914				-----	N/A	
R542	C-0S2315	C-0X-2914				-----	N/A	
R543	C-0S2315	C-0X-2914				-----	N/A	
R544	C-0S2315	C-0X-2914				-----	N/A	
R545	C-0S2315	C-0X-2914				-----	N/A	
R546	C-0S2315	C-0X-2914				-----	N/A	
R547	C-0S2315	C-0X-2914				-----	N/A	
R548	C-0S2315	C-0X-2914				-----	N/A	
R549	C-0S2315	C-0X-2914				-----	N/A	
R550	C-0S2315	C-0X-2914				-----	N/A	
R551	C-0S2315	C-0X-2914				-----	N/A	
R552	C-0S2315	C-0X-2914				-----	N/A	
R553	C-0S2315	C-0X-2914				-----	N/A	
R554	C-0S2315	C-0X-2914				-----	N/A	
R555	C-0S2315	C-0X-2914				-----	N/A	
R556	C-0S2315	C-0X-2914				-----	N/A	
R557	C-0S2315	C-0X-2914				-----	N/A	
R558	C-0S2315	C-0X-2914				-----	N/A	
R559	C-0S2315	C-0X-2914				-----	N/A	

STRUCTURAL JOINTS TRACKING

JOINT	MECHNICAL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.
R560	C-0S2315	C-0X-2914				-----	N/A
R561	C-0S2315	C-0X-2914				-----	N/A
R562	C-0S2315	C-0X-2914				-----	N/A
R563	C-0S2315	C-0X-2914				-----	N/A
R564	C-0S2315	C-0X-2914				-----	N/A
R565	C-0S2315	C-0X-2914				-----	N/A
R566	C-0S2315	C-0X-2914				-----	N/A
R567	C-0S2315	C-0X-2914				-----	N/A
R568	C-0S2315	C-0X-2914				-----	N/A
R569	C-0S2315	C-0X-2914				-----	N/A
R570	C-0S2315	C-0X-2914				-----	N/A
R571	C-0S2311	C-0X-2912				-----	N/A
R572	C-0S2314	C-0X-2912				-----	N/A
R573	C-0C2902	C-131-05734	E6			-----	N/A
R574	C-0C2902	C-131-05734	E6			-----	N/A
R575	C-0C2902	C-131-05734	E6			-----	N/A
R576	C-0C2902	C-131-05734	E6			-----	N/A
R577	C-0C2902	C-131-05734	E6			-----	N/A
R578	C-0S2001	C-121-08367	E120			-----	N/A
R579	C-0S2001	C-121-08367	E120			-----	N/A
R580	C-0S2001	C-121-08367	E120			-----	N/A
R581	C-0S2001	C-121-08367	E120			-----	N/A
R582	C-0S2001	C-121-08367	E120			-----	N/A
R583	C-0S2001	C-121-08367	E120			-----	N/A
R584	C-0S2001	C-121-08367	E120			-----	N/A
R585	C-0S2001	C-121-08367	E120			-----	R437
R586	C-0S2001	C-121-08367	E120			-----	N/A
R587	C-0S2001	C-121-08367	E120			-----	N/A
R588	C-0S2001	C-121-08367	E120			-----	N/A
R589	C-0S2001	C-121-08367	E120			-----	N/A
R590	C-0S2021	C-121-08950	E501			-----	N/A
R591	C-0S2021	C-121-08950	E501			-----	N/A
R592	C-0S2021	C-121-08950	E501			-----	N/A
R593	C-0S2021	C-121-08950	E501			-----	N/A
R594	C-1S2312	C-1X-2925				21291	R665
R595	C-1S2312	C-1X-2925				21291	R666
R596	C-1S2312	C-1X-2925				21291	R664
R597	C-1S2312	C-1X-2925				21291	R663
R598	C-1S2312	C-1X-2925				21291	R662
R599	C-1S2312	C-1X-2925				21291	R690
R600	C-1S2312	C-1X-2925				21291	R668
R601	C-1S2312	C-1X-2925				21291	R651
R602	C-0S2611	C-121-13017	FW205			-----	N/A
R603	C-0S2511	C-121-13017	FW205			-----	R381
R604	C-0S2611	C-121-08999	FW1			21375	R653
R605	C-0S2611	C-121-08999	FW1			21375	R484
R606	C-0S2611	C-121-08999	FW1			21375	R654
R607	C-0S2611	C-121-08999	FW1			21375	R485
R608	C-0S2611	C-121-08999	FW1			-----	N/A
R609	C-0S2611	C-121-08999	FW1			-----	N/A
R610	C-0S2611	C-121-08999	FW1			-----	N/A

JOINT	BECHTEL DRAWING	EXECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.
R611	C-0S2611	C-121-08999	FW1			-----	N/A
R612	C-0S2611	C-121-08999	FW1			21299	R486/R487
R613	C-0S2611	C-121-08999	FW1			21299	R488
R614	C-0S2611	C-121-08999	FW1			21299	R489
R615	C-0S2611	C-121-08999	FW1			21299	R490
R616	C-0S2611	C-121-08999	FW1			21299	R491
R617	C-0S2611	C-121-08999	FW1			21299	R492
R618	C-0S2611	C-121-08999	FW1			21299	R493
R619	C-0S2611	C-121-08999	FW1			21299	R655
R620	C-0S2611	C-121-08999	FW1			21375	R656
R621	C-0S2611	C-121-08999	FW1			21375	R494
R622	C-0S2611	C-121-08999	FW1			21375	R657
R623	C-0S2611	C-121-08999	FW1			21375	R505
R624	C-0S2611	C-121-08999	FW1			-----	N/A
R625	C-0S2611	C-121-08999	FW1			-----	N/A
R626	C-0S2611	C-121-08999	FW1			-----	N/A
R627	C-0S2611	C-121-08999	FW1			21406	R495
R628	C-0S2611	C-121-08999	FW1			21299	R496
R629	C-0S2611	C-121-08999	FW1			21299	R497
R630	C-0S2611	C-121-08999	FW1			21299	R498/R499
R631	C-0S2611	C-121-08999	FW1			21299	R500
R632	C-0S2611	C-121-08999	FW1			21299	R501
R633	C-0S2611	C-121-08999	FW1			21299	R502
R634	C-0S2611	C-121-08999	FW1			21299	R503
R635	C-0S2611	C-121-08999	FW1			21299	R504
R636	C-0S2611	C-121-13098	FW301			21207	R382
R637	C-0S2611	C-121-13098	FW301			21375	R624
R638	C-0S2611	C-121-13098	FW301			21375	R625
R639	C-0S2611	C-121-13098	FW301			21207	R383
R640	C-0S2611	C-121-13098	FW301			-----	N/A
R641	C-0S2611	C-121-13098	FW301			-----	N/A
R642	C-0S2611	C-121-13098	FW301			21375	R626
R643	C-0S2611	C-121-13099	FW302			-----	N/A
R644	C-0S2611	C-121-13099	FW302			21242	R450
R645	C-0S2611	C-121-13099	FW302			21242	R449
R646	C-0S2611	C-121-13099	FW302			-----	N/A
R647	C-0S2611	C-121-13099	FW302			-----	N/A
R648	C-0S2611	C-121-13099	FW302			-----	N/A
R649	C-0S2611	C-121-13099	FW302			-----	N/A
R650	C-0S2611	C-121-08625	E110			-----	N/A
R651	C-0S2611	C-121-08625	E110			-----	N/A
R652	C-0S2611	C-121-08625	E110			-----	N/A
R653	C-0S2914	C-121-08846	E606			-----	N/A
R654	C-0S2914	C-121-08846	E606			-----	N/A
R655	C-0S2914	C-121-08846	E606			21209	R373
R656	C-0S2914	C-121-08846	E606			21209	R374
R657	C-0S2914	C-121-08846	E606			21209	R375
R658	C-0S2914	C-121-08846	E606			21209	R376
R659	C-0S2914	C-121-08846	E606			21209	R377
R660	C-0S2914	C-121-08846	E606			21209	R378
R661	C-0S2914	C-121-08846	E606			21209	R379

JOINT	DETAIL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.
R662	C-052914	C-121-08846	E606			-----	N/A
R663	C-052919	C-121-08752	E602			21223	N/A
R664	C-052919	C-121-08752	E602			21223	N/A
R665	C-052919	C-121-08752	E602			21223	R435
R666	C-052919	C-121-08752	E602			21223	R436
R667	C-052919	C-121-08753	E603			21222	R429
R668	C-052919	C-121-08753	E603			-----	N/A
R669	C-052919	C-121-08753	E603			-----	N/A
R670	C-052919	C-121-08753	E603			-----	N/A
R671	C-052919	C-121-08753	E603			-----	N/A
R672	C-052919	C-121-08753	E603			-----	N/A
R673	C-052919	C-121-08753	E603			-----	N/A
R674	C-052919	C-121-08753	E603			-----	N/A
R675	C-052919	C-121-08753	E603			-----	N/A
R676	C-052919	C-121-08753	E603			-----	N/A
R677	C-052919	C-121-08753	E603			-----	N/A
R678	C-052919	C-121-08753	E603			-----	N/A
R679	C-052919	C-121-08753	E603			-----	N/A
R680	C-052919	C-121-08753	E603			21222	R430
R681	C-052919	C-121-08753	E603			21222	R431
R682	C-052919	C-121-08753	E603			-----	N/A
R683	C-052919	C-121-08753	E603			-----	N/A
R684	C-052919	C-121-08753	E603			-----	N/A
R685	C-052919	C-121-08753	E603			21222	R432
R686	C-052919	C-121-08753	E603			-----	N/A
R687	C-052919	C-121-08753	E603			-----	N/A
R688	C-052919	C-121-08753	E603			-----	N/A
R689	C-052919	C-121-08753	E603			-----	N/A
R690	C-052919	C-121-08753	E603			21222	R433
R691	C-052919	C-121-08753	E603			21222	R434
R692	C-052919	C-121-08753	E603			-----	N/A
R693	C-052919	C-121-08753	E603			-----	N/A
R694	C-052919	C-121-08753	E603			-----	N/A
R695	C-052919	C-121-08753	E603			-----	N/A
R696	C-052919	C-121-08753	E603			-----	N/A
R697	C-052919	C-121-08753	E603			-----	N/A
R698	C-052919	C-121-08753	E603			-----	N/A
R699	C-052919	C-121-08753	E603			-----	N/A
R700	C-052919	C-121-08753	E603			-----	N/A
R701	C-052936	C-131-05759	E13			21193	R388
R702	C-052936	C-131-05759	E13			21193	R389
R703	C-052936	C-131-05759	E13			21193	R390
R704	C-052936	C-131-05759	E13			21193	R391
R705	C-052936	C-131-05759	E13			21193	R392/R397
R706	C-052936	C-131-05759	E13			21193	R393/R398
R707	C-052936	C-131-05759	E13			21193	R394
R707	C-052936	C-131-05759	E13			21193	R395/R399
R709	C-052936	C-131-05759	E13			21193	R396/R400
R710	C-052937	C-131-05800	E4			-----	N/A
R711	C-052937	C-131-05800	E4			-----	N/A
R712	C-052937	C-131-05800	E4			-----	N/A

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.
R713	C-052937	C-131-05800	E4			-----	N/A
R714	C-052937	C-131-05800	E4			-----	N/A
R715	C-052937	C-131-05800	E4			-----	N/A
R716	C-052937	C-131-05800	E4			-----	N/A
R717	C-052937	C-131-05800	E4			-----	N/A
R718	C-052937	C-131-05800	E4			-----	N/A
R719	C-052937	C-131-05800	E4			-----	N/A
R720	C-052937	C-131-05800	E4			-----	N/A
R721	C-052937	C-131-05800	E4			-----	N/A
R722	C-052937	C-131-05800	E4			-----	N/A
R723	C-052937	C-131-05800	E4			-----	N/A
R724	C-052937	C-131-05800	E4			-----	N/A
R725	C-052937	C-131-05800	E4			-----	N/A
R726	C-052937	C-131-05800	E4			-----	N/A
R727	C-052937	C-131-05800	E4			-----	N/A
R728	C-052937	C-131-05800	E4			-----	N/A
R729	C-052937	C-131-05800	E4			-----	N/A
R730	C-052937	C-131-05800	E4			-----	N/A
R731	C-052937	C-131-05800	E4			-----	N/A
R732	C-052937	C-131-05800	E4			-----	N/A
R733	C-052937	C-131-05800	E4			-----	N/A
R734	C-052937	C-131-05800	E4			-----	N/A
R735	C-052937	C-131-05800	E4			-----	N/A
R736	C-052919	C-121-08772	E608			-----	N/A
R737	C-052919	C-121-08772	E608			-----	N/A
R738	C-052919	C-121-08772	E608			21286	R506
R739	C-052919	C-121-08772	E608			21286	R507
R740	C-052919	C-121-08772	E608			21286	R508
R741	C-052919	C-121-08772	E608			21286	R509
R742	C-052919	C-121-08772	E608			21286	R510
R743	C-052919	C-121-08772	E608			21286	R511
R744	C-052919	C-121-08772	E608			21286	R512
R745	C-052919	C-121-08772	E608			21286	R513
R746	C-052924	C-121-08773	E609			-----	N/A
R747	C-052924	C-121-08773	E609			21197	R380
R748	C-052924	C-121-08773	E609			-----	N/A
R749	C-052924	C-121-08773	E609			-----	N/A
R750	C-052924	C-121-08773	E609			-----	N/A
R751	C-052924	C-121-08773	E609			-----	N/A
R752	C-052924	C-121-08773	E609			-----	N/A
R753	C-052924	C-121-08773	E609			-----	N/A
R754	C-052924	C-121-08773	E609			-----	N/A
R755	C-052924	C-121-08773	E609			-----	N/A
R756	C-052924	C-121-08773	E609			-----	N/A
R757	C-052924	C-121-08773	E609			-----	N/A
R758	C-052924	C-121-08773	E609			-----	N/A
R759	C-052924	C-121-08773	E609			-----	N/A
R760	C-052924	C-121-08773	E609			-----	N/A
R761	C-052924	C-121-08773	E609			-----	N/A
R762	C-052924	C-121-08773	E609			-----	N/A
R763	C-052924	C-121-08773	E609			-----	N/A

STRUCTURAL JOINTS TRACKING

*JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION	NCR	EVALUATION NO.
R764	C-052924	C-121-08773	E609			-----	N/A
R765	C-052924	C-121-08773	E609			-----	N/A
R766	C-052924	C-121-08773	E609			-----	N/A
R767	C-052924	C-121-08773	E609			-----	N/A
R768	C-052924	C-121-08773	E609			-----	N/A
R769	C-052924	C-121-08773	E609			-----	N/A
R770	C-052924	C-121-08773	E609			-----	N/A
R771	C-052924	C-121-08773	E609			-----	N/A
R772	C-052924	C-121-08773	E609			-----	N/A
R773	C-052924	C-121-08773	E609			-----	N/A
R774	C-052924	C-121-08773	E609			-----	N/A
R775	C-052924	C-121-08773	E609			-----	N/A
R776	C-052924	C-121-08773	E609			-----	N/A
R777	C-052924	C-121-08773	E609			-----	N/A
R778	C-052924	C-121-08773	E609			-----	N/A
R779	C-052924	C-121-08773	E609			-----	N/A
R780	C-052924	C-121-08773	E609			21197	R384
R781	C-052924	C-121-08773	E609			-----	N/A
R782	C-052924	C-121-08773	E609			-----	N/A
R783	C-052924	C-121-08773	E609			-----	N/A
R784	C-052924	C-121-08773	E609			-----	N/A
R785	C-052924	C-121-08773	E609			-----	N/A
R786	C-052924	C-121-08773	E609			-----	N/A
R787	C-052924	C-121-08773	E609			-----	N/A
R788	C-052924	C-121-08773	E609			-----	N/A
R789	C-052924	C-121-08773	E609			-----	N/A
R790	C-052924	C-121-08773	E609			-----	N/A
R791	C-052924	C-121-08773	E609			-----	N/A
R792	C-052924	C-121-08773	E609			-----	N/A
R793	C-052924	C-121-08773	E609			-----	N/A
R794	C-052924	C-121-08773	E609			-----	N/A
R795	C-052924	C-121-08773	E609			-----	N/A
R796	C-052924	C-121-08773	E609			-----	N/A
R797	C-052924	C-121-08773	E609			-----	N/A
R798	C-052924	C-121-08773	E609			-----	N/A
R799	C-052924	C-121-08773	E609			-----	N/A
R800	C-052924	C-121-08773	E609			-----	N/A
R801	C-052924	C-121-08773	E609			-----	N/A
R802	C-052924	C-121-08773	E609			-----	N/A
R803	C-052924	C-121-08773	E609			-----	N/A
R804	C-052924	C-121-08773	E609			-----	N/A
R805	C-052924	C-121-08773	E609			-----	N/A
R806	C-052924	C-121-08773	E609			-----	N/A
R807	C-052924	C-121-08773	E609			-----	N/A
R808	C-052924	C-121-08773	E609			21197	R385
R809	C-052924	C-121-08773	E609			-----	N/A
R810	C-052711	C-121-08360	E117			21311	R514
R811	C-052711	C-121-08360	E117			21311	R515
R812	C-052711	C-121-08360	E117			21311	R516
R813	C-052711	C-121-08360	E117			21311	R517
R814	C-052711	C-121-08360	E117			21311	R518

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION	NCR	EVALUATION NO.
R815	C-0S2711	C-121-08360	E117			21311	R519
R816	C-0S2711	C-121-08360	E117			21311	R520
R817	C-0S2711	C-121-08360	E117			21311	R521
R818	C-0S2711	C-121-08360	E117			21210	R522
R819	C-0S2711	C-121-08360	E117			21311	R523
R820	C-0S2711	C-121-08360	E117			21311	R524
R821	C-0S2711	C-121-08360	E117			21311	R525
R822	C-0S2711	C-121-08360	E117			21311	R526
R823	C-0S2711	C-121-08360	E117			21311	R527
R824	C-0S2711	C-121-08360	E117			21311	R528
R825	C-0S2711	C-121-08360	E117			21311	R529
R826	C-0S2711	C-121-08360	E117			21311	R530
R827	C-0S2711	C-121-08360	E117			21311	R531
R828	C-0S2711	C-121-08361	E121			21310	R532
R829	C-0S2711	C-121-08361	E121			21310	R533
R830	C-0S2711	C-121-08361	E121			21310	R534
R831	C-0S2711	C-121-08361	E121			21310	R535
R832	C-0S2711	C-121-08361	E121			21310	R536
R833	C-0S2711	C-121-08361	E121			21310	R537
R834	C-0S2711	C-121-08361	E121			21310	R538
R835	C-0S2711	C-121-08361	E121			21310	R539
R836	C-0S2711	C-121-08361	E121			21310	R540
R837	C-0S2711	C-121-08361	E121			21310	R541
R838	C-0S2711	C-121-08361	E121			21310	R542
R839	C-0S2711	C-121-08361	E121			21310	R543
R840	C-0S2711	C-121-08361	E121			21310	R544
R841	C-0S2711	C-121-08361	E121			21310	R545
R842	C-0S2711	C-121-08362	E121			21309	R546
R843	C-0S2711	C-121-08362	E123			21309	R547
R844	C-0S2711	C-121-08362	E123			21309	R548
R845	C-0S2711	C-121-08362	E123			21309	R549
R846	C-0S2711	C-121-08362	E123			21309	R550
R847	C-0S2711	C-121-08362	E123			21309	R551
R848	C-0S2711	C-121-08362	E123			21309	R552
R849	C-0S2711	C-121-08362	E123			21309	R553
R850	C-0S2711	C-121-08362	E123			21309	R554
R851	C-0S2711	C-121-08362	E123			21309	R555
R852	C-0S2711	C-121-08362	E123			21309	R556
R853	C-0S2711	C-121-08362	E123			21309	R557
R854	C-0S2711	C-121-08362	E123			21309	R558
R855	C-0S2711	C-121-08362	E123			21309	R559
R856	C-0S2711	C-121-08355	E122			21308	R560
R857	C-0S2711	C-121-08355	E122			21308	R561
R858	C-0S2711	C-121-08355	E122			21308	R562
R859	C-0S2711	C-121-08355	E122			21308	R563
R860	C-0S2711	C-121-08355	E122			21308	R564
R861	C-0S2711	C-121-08355	E122			21308	R565
R862	C-0S2711	C-121-08355	E122			21308	R566
R863	C-0S2711	C-121-08355	E122			21308	R567
R864	C-0S2711	C-121-08355	E122			21308	R568
R865	C-0S2711	C-121-08355	E122			21308	R569

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION	NCR	EVALUATION NO.	
R866	C-052711	C-121-08355	E122			21308	R570	
R867	C-052711	C-121-08355	E122			21308	R571	
R868	C-052711	C-121-08355	E122			21308	R572	
R869	C-052711	C-121-08355	E122			21308	R573	
R870	C-052312	C-131-05743	E12			-----	N/A	
R871	C-052312	C-131-05743	E12			21232	R438	
R872	C-052312	C-131-05743	E12			-----	N/A	
R873	C-052312	C-131-05743	E12			21232	R439	
R874	C-052312	C-131-05743	E12			-----	N/A	
R875	C-052312	C-131-05743	E12			-----	R440	
R876	C-052312	C-131-05743	E12			21232	R634	
R877	C-052312	C-131-05743	E12			21232	R442	
R878	C-052312	C-131-05743	E12			-----	N/A	
R879	C-052312	C-131-05743	E12			-----	N/A	
R880	C-052312	C-131-05743	E12			-----	N/A	
R881	C-052312	C-131-05743	E12			-----	N/A	
R882	C-052312	C-131-05743	E12			-----	N/A	
R883	C-052312	C-131-05743	E12			-----	N/A	
R884	C-052312	C-131-05743	E12			-----	N/A	
R885	C-052312	C-131-05743	E12			-----	N/A	
R886	C-052312	C-131-05743	E12			21232	R441	
R887	C-052907	C-131-05666	E1			-----	N/A	
R888	C-052907	C-131-05666	E1			-----	N/A	
R889	C-052907	C-131-05666	E1			21375	R648	
R890	C-052907	C-131-05666	E1			-----	N/A	
R891	C-052907	C-131-05666	E1			-----	N/A	
R892	C-052907	C-131-05666	E1			-----	N/A	
R893	C-052907	C-131-05666	E1			-----	N/A	
R894	C-052907	C-131-05666	E1			-----	N/A	
R895	C-052907	C-131-05666	E1			-----	N/A	
R896	C-052907	C-131-05666	E1			-----	N/A	
R897	C-052907	C-131-05666	E1			-----	N/A	
R898	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R899	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R900	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R901	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R902	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R903	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R904	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R905	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R906	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R907	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R908	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R909	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R910	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R911	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R912	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R913	C-052907	C-131-05666	E1			-----	VOID	CONSTRUCTION NOT COMPLETED
R914	C-052907	C-131-05666	E1			21406	VOID	CONSTRUCTION NOT COMPLETED
R915	C-052907	C-131-05666	E1			21375	R647	
R916	C-052907	C-131-05666	E1			21406	VOID	CONSTRUCTION NOT COMPLETED

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.
R917	C-052907	C-131-05666	E1			-----	N/A
R918	C-052907	C-131-05666	E1			-----	N/A
R919	C-052907	C-131-05666	E1			-----	N/A
R920	C-052907	C-121-05666	E1			-----	N/A
R921	C-052907	C-131-05666	E1			-----	N/A
R922	C-052907	C-131-05666	E1			-----	N/A
R923	C-052907	C-131-05666	E1			-----	N/A
R924	C-052907	C-131-05666	E1			-----	N/A
R925	C-152312	C-1X-2925				-----	N/A
R926	C-152312	C-1X-2925				-----	N/A
R927	C-152312	C-1X-2925				-----	N/A
R928	C-152313	C-0X-2905				-----	N/A
R929	C-152312	C-1X-2925				-----	N/A
R930	C-152312	C-1X-2925				-----	N/A
R931	C-152312	C-1X-2925				-----	N/A
R932	C-152312	C-1X-2925				21406	N/A
R933	C-152312	C-1X-2925				-----	N/A
R934	C-152313	C-0X-2905				21406	N/A
R935	C-152313	C-0X-2905				21406	N/A
R936	C-152312	C-1X-2925				-----	N/A
R937	C-152312	C-1X-2925				-----	N/A
R938	C-152312	C-1X-2925				21406	N/A
R939	C-152312	C-1X-2925				-----	N/A
R940	C-152312	C-1X-2925				-----	N/A
R941	C-052315	C-0X-2917				-----	N/A
R942	C-052315	C-0X-2917				-----	N/A
R943	C-052315	C-0X-2917				-----	N/A
R944	C-052315	C-0X-2917				-----	N/A
R945	C-052511	C-121-08909	E105			21274	R466/R467
R946	C-052511	C-121-08909	E105			21274	N/A
R947	C-052511	C-121-08909	E105			21274	R458/R459
R948	C-052511	C-121-08909	E105			21274	N/A
R949	C-052511	C-121-08909	E105			21375	R613
R950	C-052511	C-121-08909	E105			21375	R614
R951	C-052511	C-121-08909	E105			21375	R615
R952	C-052511	C-121-08909	E105			21375	R616
R953	C-052511	C-121-08909	E105			21375	R617
R954	C-052511	C-121-08909	E105			21375	R618
R955	C-052311	C-0X-2902				-----	N/A
R956	C-052311	C-0X-2902				-----	N/A
R957	C-052311	C-0X-2902				-----	N/A
R958	C-052311	C-0X-2902				-----	N/A
R959	C-052511	C-121-08577	E106			21303	R468
R960	C-052511	C-121-08577	E106			21303	R469
R961	C-052511	C-121-08577	E106			21375	R587
R962	C-052511	C-121-08577	E106			21303	R470
R963	C-052511	C-121-08577	E106			21375	R588
R964	C-052311	C-0X-2902				-----	N/A
R965	C-052311	C-0X-2902				-----	N/A
R966	C-052521	C-121-08912	E107			21375	R627
R967	C-052521	C-121-08576	E108			21375	R628

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION	NCR	EVALUATION NO.	
R968	C-052521	C-121-08576	E108			21375	R629	
R969	C-052521	C-121-08576	E108			21375	R630	
R970	C-052521	C-121-08576	E108			21375	R631	
R971	C-052521	C-121-08576	E108			21375	R632	
R972	C-052521	C-121-08576	E108			21375	R633	
R973	C-052001	C-121-08367	E120			-----	N/A	
R974	C-052001	C-121-08367	E120			-----	N/A	
R975	C-052521	C-121-08576	E108			21302	R471	
R976	C-052521	C-121-08576	E108			21302	R472	
R977	C-052611	C-121-13093	E109			21271	R460/R461/R586	
R978	C-052611	C-121-08263	E110			21271	R462/R463	
R979	C-052611	C-121-08625	E110			21277	R443	
R980	C-052611	C-121-08625	E110			21277	R444	
R981	C-052611	C-121-08625	E110			21277	R445	
R982	C-052611	C-121-08625	E110			21277	R446	
R983	C-052621	C-121-08523	E111			21276	R455	
R984	C-052621	C-121-08523	E111			21276	R454	
R985	C-052621	C-121-08523	E111			21276	R451	
R986	C-052611	C-121-13265	FW13			21276	R452/R453	
R987	C-052611	C-121-13265	FW13			-----	N/A	
R988	C-052611	C-121-13265	FW13			21275	R447/R448	
R989	C-052611	C-121-13265	FW13			21275	R456/R457	
R990	C-052001	C-121-08367	E120			-----	N/A	
R991	C-052001	C-121-08367	E120			-----	R589	
R992	C-052001	C-121-08367	E120			-----	R590	
R993	C-152313	C-0X-2905				21406	N/A	
R994	C-152313	C-0X-2905				21406	N/A	
R995	C-052702	C-0X-2904				21406	R623	FCR 1-0899-C
R996	C-052511					-----	N/A	FCR 1-0899-C
R997	C-052511					21354	R686	FCR 1-0899-C
R998	C-052521					21354	R687	FCR 1-0899-C
R999	C-052521					21354	R688	FCR 1-0899-C
RA	C-052611	C-121-08549	E601			20567	R072/R073	
RB	C-052411	C-121-08506	E102			20567	R049/R104	SAME AS R12
RC	C-052521	C-121-08912	E107			20567	R048	
RD	C-052521	C-121-13069	E125			-----	N/A	
RE	C-052611	C-121-13093	E109			-----	N/A	
RF	C-052704	C-121-08543	E124			20509	R076	
RG01						-----	N/A	CRANE CLIP
RG02						-----	N/A	CRANE CLIP
RG03						-----	N/A	CRANE CLIP
RG04						-----	N/A	CRANE CLIP
RG05						-----	N/A	CRANE CLIP
RG06						-----	N/A	CRANE CLIP
RG07						-----	N/A	CRANE CLIP
RG08						-----	N/A	CRANE CLIP
RG09						-----	N/A	CRANE CLIP
RG10						-----	N/A	CRANE CLIP
RG11						-----	N/A	CRANE CLIP
RG12						-----	N/A	CRANE CLIP
RG13						21221	R401	CRANE CLIP

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION	NCR	EVALUATION NO.
RG14						-----	N/A CRANE CLIP
RG15						-----	N/A CRANE CLIP
RG16						-----	N/A CRANE CLIP
RG17						-----	N/A CRANE CLIP
RG18						-----	N/A CRANE CLIP
RG19						-----	N/A CRANE CLIP
RG20						-----	N/A CRANE CLIP
RG21						-----	N/A CRANE CLIP
RG22						-----	N/A CRANE CLIP
RG23						-----	N/A CRANE CLIP
RG24						21211	R402 CRANE CLIP
RG25						-----	N/A CRANE CLIP
RG26						21221	R403 CRANE CLIP
RG27						21221	R404 CRANE CLIP
RG28						-----	N/A CRANE CLIP
RG29						21221	R405 CRANE CLIP
RG30						21221	R406 CRANE CLIP
RG31						21221	R407 CRANE CLIP
RG32						-----	N/A CRANE CLIP
RG33						-----	N/A CRANE CLIP
RG34						-----	N/A CRANE CLIP
RG35						-----	N/A CRANE CLIP
RG36						-----	N/A CRANE CLIP
RG37						-----	N/A CRANE CLIP
RG38						-----	N/A CRANE CLIP
RG39						-----	N/A CRANE CLIP
RG40						-----	N/A CRANE CLIP
RG41						-----	N/A CRANE CLIP
RG42						-----	N/A CRANE CLIP
RG43						-----	N/A CRANE CLIP
RG44						-----	N/A CRANE CLIP
RG45						-----	N/A CRANE CLIP
RG46						-----	N/A CRANE CLIP
RG47						-----	N/A CRANE CLIP
RG48						-----	N/A CRANE CLIP
RG49						-----	N/A CRANE CLIP
RG50						-----	N/A CRANE CLIP
RG51						21221	R408 CRANE CLIP
RG52						21221	R409 CRANE CLIP
RG53						21221	R410 CRANE CLIP
RG54						21221	R411 CRANE CLIP
RG55						21221	R412 CRANE CLIP
RG56						-----	N/A CRANE CLIP
RG57						-----	N/A CRANE CLIP
RG58						-----	N/A CRANE CLIP
RG59						-----	N/A CRANE CLIP
RG60						-----	N/A CRANE CLIP
RG61						-----	N/A CRANE CLIP
RG62						21221	R413 CRANE CLIP
RG63						21221	R414 CRANE CLIP
RG64						-----	N/A CRANE CLIP

JOINT	DRAWING	ERECTION	DRAW	ELEVATON	LOCATION	NCR	EVALUATION NO.	
RG65						-----	N/A	CRANE CLIP
RG66						-----	N/A	CRANE CLIP
RG67						-----	N/A	CRANE CLIP
RG68						-----	N/A	CRANE CLIP
RG69						21221	R415	CRANE CLIP
RG70						-----	N/A	CRANE CLIP
RG71						21221	R416	CRANE CLIP
RG72						-----	N/A	CRANE CLIP
RG73						21221	R417	CRANE CLIP
RG74						21211	R418	CRANE CLIP
RG75						-----	N/A	CRANE CLIP
RG76						21211	R419	CRANE CLIP
RG77						-----	N/A	CRANE CLIP
RG78						-----	N/A	CRANE CLIP
RG79						-----	N/A	CRANE CLIP
RG80						-----	N/A	CRANE CLIP
RG81						-----	N/A	CRANE CLIP
RG82						-----	N/A	CRANE CLIP
RG82						-----	N/A	CRANE CLIP
RG83						-----	N/A	CRANE CLIP
RG84						-----	N/A	CRANE CLIP
RG85						-----	N/A	CRANE CLIP
RG86						-----	N/A	CRANE CLIP
RG87						-----	N/A	CRANE CLIP
RG88						-----	N/A	CRANE CLIP
RG89						-----	N/A	CRANE CLIP
RG90						-----	N/A	CRANE CLIP
RG91						-----	N/A	CRANE CLIP
RG92						-----	N/A	CRANE CLIP
RG93						-----	N/A	CRANE CLIP
RG94						21221	R420	CRANE CLIP
RG95						-----	N/A	CRANE CLIP
RG96						-----	N/A	CRANE CLIP
RG97						-----	N/A	CRANE CLIP
RG98						21221	R421	CRANE CLIP
RG99						21321	R422	CRANE CLIP
RH01						-----	N/A	CRANE CLIP
RH02						-----	N/A	CRANE CLIP
RH03						-----	N/A	CRANE CLIP
RH04						-----	N/A	CRANE CLIP
RH05						-----	N/A	CRANE CLIP
RH06						-----	N/A	CRANE CLIP
RH07						-----	N/A	CRANE CLIP
RH08						-----	N/A	CRANE CLIP
RH09						-----	N/A	CRANE CLIP
RH10						-----	N/A	CRANE CLIP
RH11						-----	N/A	CRANE CLIP
RH12						-----	N/A	CRANE CLIP
RH13						-----	N/A	CRANE CLIP
RH14						-----	N/A	CRANE CLIP
RH15						-----	N/A	CRANE CLIP

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.
RH16						-----	N/A CRANE CLIP
RH17						-----	N/A CRANE CLIP
RH18						-----	N/A CRANE CLIP
RH19						-----	N/A CRANE CLIP
RH20						-----	N/A CRANE CLIP
RH21						-----	N/A CRANE CLIP
RH22						-----	N/A CRANE CLIP
RH23						-----	N/A CRANE CLIP
RH24						-----	N/A CRANE CLIP
RH25						-----	N/A CRANE CLIP
RH26						-----	N/A CRANE CLIP
RH27						-----	N/A CRANE CLIP
RH28						-----	N/A CRANE CLIP
RH29						-----	N/A CRANE CLIP
RH30						-----	N/A CRANE CLIP
RH31						-----	N/A CRANE CLIP
RH32						-----	N/A CRANE CLIP
RH33						-----	N/A CRANE CLIP
RH34						-----	N/A CRANE CLIP
RH35						-----	N/A CRANE CLIP
RH36						-----	N/A CRANE CLIP
RH37						-----	N/A CRANE CLIP
RH38						-----	N/A CRANE CLIP
RH39						-----	N/A CRANE CLIP
RH40						-----	N/A CRANE CLIP
RH41						-----	N/A CRANE CLIP
RH42						-----	N/A CRANE CLIP
RH43						-----	N/A CRANE CLIP
RH44						-----	N/A CRANE CLIP
RH45						-----	N/A CRANE CLIP
RH46						-----	N/A CRANE CLIP
RH47						-----	N/A CRANE CLIP
RH48						-----	N/A CRANE CLIP
RH49						-----	N/A CRANE CLIP
RH50						-----	N/A CRANE CLIP
RH51						-----	N/A CRANE CLIP
RH52						-----	N/A CRANE CLIP
RH53						-----	N/A CRANE CLIP
RH54						-----	N/A CRANE CLIP
RH55						-----	N/A CRANE CLIP
RH56						-----	N/A CRANE CLIP
RH57						-----	N/A CRANE CLIP
RH58						-----	N/A CRANE CLIP
RH59						-----	N/A CRANE CLIP
RH60						-----	N/A CRANE CLIP
RH61						-----	N/A CRANE CLIP
RH62						-----	N/A CRANE CLIP
RH63						-----	N/A CRANE CLIP
RH64						-----	N/A CRANE CLIP
RH65						-----	N/A CRANE CLIP
RH66						-----	N/A CRANE CLIP

*JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.	
RH67						-----	N/A	CRANE CLIP
RH68						-----	N/A	CRANE CLIP
RH69						-----	N/A	CRANE CLIP
RH70						-----	N/A	CRANE CLIP
RH71						-----	N/A	CRANE CLIP
RH72						-----	N/A	CRANE CLIP
RH73						-----	N/A	CRANE CLIP
RH74						-----	N/A	CRANE CLIP
RH75						-----	N/A	CRANE CLIP
RH76						-----	N/A	CRANE CLIP
RH77						-----	N/A	CRANE CLIP
RH78						-----	N/A	CRANE CLIP
RH79						-----	N/A	CRANE CLIP
RH80						-----	N/A	CRANE CLIP
RH81						-----	N/A	CRANE CLIP
RH82						-----	N/A	CRANE CLIP
RH83						-----	N/A	CRANE CLIP
RH84						-----	N/A	CRANE CLIP
RH85						-----	N/A	CRANE CLIP
RH86						-----	N/A	CRANE CLIP
RH87						-----	N/A	CRANE CLIP
RH88						-----	N/A	CRANE CLIP
RH89						-----	N/A	CRANE CLIP
RH90						-----	N/A	CRANE CLIP
RH91						-----	N/A	CRANE CLIP
RH92						21221	R423	CRANE CLIP
RH93						-----	N/A	CRANE CLIP
RH94						-----	N/A	CRANE CLIP
RH95						-----	N/A	CRANE CLIP
RH96						-----	N/A	CRANE CLIP
RH97						-----	N/A	CRANE CLIP
RH98						-----	N/A	CRANE CLIP
RH99						-----	N/A	CRANE CLIP
RI01						-----	N/A	CRANE CLIP
RI02						-----	N/A	CRANE CLIP
RI03						-----	N/A	CRANE CLIP
RI04						-----	N/A	CRANE CLIP
RI05						-----	N/A	CRANE CLIP
RI06						21221	R424	CRANE CLIP
RI07						-----	N/A	CRANE CLIP
RI08						-----	N/A	CRANE CLIP
RI09						-----	N/A	CRANE CLIP
RI10						-----	N/A	CRANE CLIP
RI11						21221	R425	CRANE CLIP
RI12						21221	R426	CRANE CLIP
RI13						21221	R427	CRANE CLIP
RI14						21221	R428	CRANE CLIP
RI15						-----	N/A	CRANE CLIP
RI16						-----	N/A	CRANE CLIP
RI17						-----	N/A	CRANE CLIP
RI18						-----	N/A	CRANE CLIP

JOINT	DRAWING	ERECTION	DRAW	ELEVATON	LOCATION	NCR	EVALUATION NO.
RI19						-----	N/A CRANE CLIP
RI20						-----	N/A CRANE CLIP
RI21						-----	N/A CRANE CLIP
RI22						-----	N/A CRANE CLIP
RI23						-----	N/A CRANE CLIP
RI24						-----	N/A CRANE CLIP
RI25						-----	N/A CRANE CLIP
RI26						-----	N/A CRANE CLIP
RI27						-----	N/A CRANE CLIP
RI28						-----	N/A CRANE CLIP
RI29						-----	N/A CRANE CLIP
RI30						-----	N/A CRANE CLIP
RJ01						-----	N/A NCR 1SN2585C
RJ02						-----	N/A NCR 1SN2585C
RJ03						-----	N/A NCR 1SN2658C
RJ04						-----	N/A NCR 1SN2685C
RJ05	C-082621	C-121-08523	E111			-----	N/A FAB REQ. RB332
RJ06						-----	N/A NCR 1SN12992C
RJ07						-----	N/A NCR 1SN12992C
RJ08	C-082311	C-121-08787	E605			-----	INACCESSIBLE NCR 1SN13013C
RJ09						-----	N/A NCR 1SN13017C
RJ10						-----	N/A NCR 1SN3149C
RJ11						-----	N/A NCR 1SN3230CW
RJ12						-----	N/A NCR 1SN3255C
RJ13						-----	N/A NCR 1SN3261C
RJ14						-----	N/A NCR 1SN3385C
RJ15						21732	R636/R689 NCR 1SN3385C
RJ16						-----	N/A NCR 1SN3386C
RJ17						-----	N/A NCR 1SN3482C
RJ18	C-082919					-----	INACCESSIBLE NCR 1SN4534C
RJ19	C-082511	C-121-08909	E105			-----	N/A NCR 1SN3589C
RJ20						-----	NCR 1SN3794C
RJ21						-----	N/A NCR 1SN3795C
RJ22	C-082312	C-121-08982	E610			-----	N/A NCR 1SN4389C
RJ23	C-082621	C-121-08523	E111			-----	N/A NCR 1SN4276C
RJ24						-----	N/A NCR 1SN8612C
RJ25	C-082621	C-121-08523	E111			-----	VOID, SAME AS RJ04 NCR 1SN12190C
RJ26	C-082919					-----	INACCESSIBLE NCR 1SN4536C
RJ27	C-082711	C-121-08362	E123			-----	N/A NCR 1SN19864C
RJ28	C-082711	C-121-08355	E122			-----	N/A NCR 1SN19864C
RJ29	C-082711	C-121-08360	E117			-----	N/A NCR 1SN19864C
RJ30	C-082711	C-121-08360	E117			-----	N/A NCR 1SN19864C
RJ31	C-082711	C-121-08361	E121			-----	N/A NCR 1SN19864C
RJ32						-----	N/A NCR 1SN2698C
RJ33	C-082411	C-121-08506	E102			-----	N/A NCR 1SN1649C
RJ34	C-082511	C-121-08909	E105			-----	N/A NCR 1SN2136C
RJ35	C-082411	C-121-08506	E102			-----	N/A NCR 1SN1568C
RJ36	C-082312	C-121-08982	E610			-----	N/A NCR 1SN4389C
RJ37						-----	N/A NCR 1SN3796C
RJ38	C-082919	C-121-08752	E602			-----	INACCESSIBLE FAB REQ. RB341
RJ39	C-082919	C-121-08752	E602			-----	INACCESSIBLE FAB REQ. RB341

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION	NCR	EVALUATION NO.	
RJ40	C-052521	C-121-08576	E108			-----	N/A	FAB REQ. RB308
RJ41	C-052511	C-121-08577	E106			-----	N/A	FAB REQ. RB265
RJ42	C-052621	C-121-08523	E111			-----	N/A	FAB REQ. RB436
RJ43	C-052621	C-121-08523	E111			21406	R659	FAB REQ. RB436
RJ44	C-052611					-----	N/A	NCR 1SN11282C
RJ45	C-052611					-----	N/A	NCR 1SN11282C
RJ46	C-052611					-----	N/A	NCR 1SN11282C
RJ47	C-052611					-----	N/A	NCR 1SN11282C
RJ48	C-052611					-----	N/A	NCR 1SN11282C
RJ49	C-052611					-----	N/A	NCR 1SN11282C
RJ50	C-052611					-----	N/A	NCR 1SN11282C
RJ51	C-052611					-----	N/A	NCR 1SN11282C
RJ52	C-052521					21406	R640	NCR 1SN3115C
RJ53	C-052521					-----	N/A	NCR 1SN3115C
RJ54	C-052521					21406	R641	NCR 1SN3115C
RJ55	C-052521					21406	R642	NCR 1SN3115C
RJ56	C-052521					-----	N/A	NCR 1SN3115C
RJ57	C-052521					21406	R643	NCR 1SN3115C
RJ58	C-152313	C-0X-2905				21406	R660	
RJ59	C-152313	C-0X-2905				21406	N/A	
RJ60						-----	VOID	NO. NOT USED
RJ61	C-052919					-----	INACCESSIBLE	NCR 1SN4536C
RJ62	C-052919					-----	INACCESSIBLE	NCR 1SN4536C
RJ63		C-121-13266				21406	N/A	FAB REQ. RB555
RJ64		C-121-13266				21406	R652	FAB REQ. RB555
RJ65		C-121-13266				21406	N/A	FAB REQ. RB555
RJ66		C-121-13266				21406	N/A	FAB REQ. RB555
RJ67		C-121-13266				21406	N/A	FAB REQ. RB555
RJ68		C-121-13266				21406	N/A	FAB REQ. RB555
RJ69		C-121-13266				21406	N/A	FAB REQ. RB555
RJ70		C-121-13266				21406	N/A	FAB REQ. RB555
RJ71		C-121-08759				-----	INACCESSIBLE	FAB REQ. RB411
RJ72		C-121-08759				-----	INACCESSIBLE	FAB REQ. RB411
RJ73		C-121-08133				-----	N/A	FAB REQ. RB503
RJ74		C-121-08133				-----	N/A	FAB REQ. RB503
RJ75		C-121-08987				-----	N/A	FAB REQ. RB381
RJ76		C-121-08987				-----	N/A	FAB REQ. RB381
RJ77		C-121-08987				-----	N/A	FAB REQ. RB381
RJ78		C-121-08987				21406	R162	FAB REQ. RB381
RJ79		C-121-08039				-----	N/A	NCR 1SN2728C
RJ80		C-121-08039				-----	N/A	NCR 1SN2728C
RJ81		C-121-08039				-----	N/A	NCR 1SN2728C
RJ82		C-121-08039				-----	N/A	NCR 1SN2728C
RJ83	C-052611	C-121-08625	E110			20494	R676	
RJ84	C-052611	C-121-08625	E110			20494	R677	
RJ85	C-052621	C-121-08523	E111			20494	R678	
RJ86	C-052621	C-121-08523	E111			20494	R679	
RJ87	C-052924	C-121-08773	E609			20494	R086/R087/R088	
RJ88	C-052924	C-121-08773	E609			20494	R077/R078/R079	
RJ89	C-052924	C-121-08773	E609			20494	R080/R081/R082	
RJ90	C-052924	C-121-08773	E609			20494	R083/R084/R085	

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION	NCR	EVALUATION NO.
RJ91	C-052935	C-121-05671	35-E2			-----	INACCESSIBLE
RJ92	C-052935	C-121-05671	35-E2			-----	INACCESSIBLE
RJ93	C-052311	C-121-08786	E604			20494	R058/R062
RJ94	C-052311	C-121-08786	E604			20494	R063/R064

..... END REPORT .....

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.
C001	C-0S3211	C-121-01426	E001	1984-00	2-0 N OF C8	5-8 W OF CB	21349	C352
C002	C-0S3311	C-121-01408	E002	2000-00	2-0 N OF C8	15-0 W OF CC	20947	C007/C008/C009
C003	C-0S3311	C-121-01408	E002	2000-00	2-0 N OF C8	14-6 W OF CA	20947	C010/C011/C012
C004	C-0S3311	C-121-01408	E002	2000-00	18-0 S OF C5	2-0 W OF CA	20947	C013/C014/C015
C005	C-0S3311	C-121-01408	E002	2000-00	13-0 S OF C5	2-0 W OF CA	20947	C016/C017/C018
C006	C-0S3311	C-121-01408	E002	2000-00	7-10 S OF C5	2-0 W OF CA	20947	INACCESSIBLE
C007	C-0S3311	C-121-01408	E002	2000-00	8-0 N OF C5	2-0 W OF CA	20948	INACCESSIBLE
C008	C-0S3311	C-121-01408	E002	2000-00	5-0 S OF C3	2-0 W OF CA	20947	C024/C025/C026/C027
C009	C-0S3311	C-121-01408	E002	2000-00	6-0 S OF C1	1-6 E OF CF	20947	C028/C029/C030/C031
C010	C-0S3411	C-121-01411	E003	2016-00	1-0 N OF C8	14-6 W OF CA	21349	C358
C011	C-0S3411	C-121-01411	E003	2016-00	11-6 N OF C3	2-0 W OF CA	20985	C101/C102/C103
C012	C-0S3411	C-121-01411	E003	2016-00	1-0 S OF C1	CC	20985	C104
C013	C-0S3411	C-121-01411	E003	2016-00	9-0 S OF C1	0-6 E OF CF	20985	C105/C106/C107
C014	C-0S3411	C-121-01411	E003	2016-00	8-0 N OF C3	0-6 E OF CF	20985	C108/C109
C015	C-0S3511	C-121-01414	E004	2032-00	1-0 N OF C8	8-0 W OF CC	21015	C110/C111
C016	C-0S3511	C-121-01414	E004	2032-00	11-6 N OF C3	2-0 W OF CA	21015	C112/C113
C017	C-0S3511	C-121-01414	E004	2032-00	4-3 S OF C1	2-0 W OF CA	21015	C114
C018	C-0S3511	C-121-01414	E004	2032-00	1-0 S OF C1	14-6 W OF CA	21349	C360
C019	C-0S3511	C-121-01414	E004	2032-00	1-0 S OF C1	CC	21014	C246
C020	C-0S3511	C-121-01414	E004	2032-00	1-0 S OF C1	14-6 E OF CF	21014	C343
C021	C-0S3511	C-121-01414	E004	2032-00	16-0 N OF C5	0-6 E OF CF	21015	C115
C022	C-0S3611	C-121-01417	E005	2047-06	1-0 N OF C8	8-0 W OF CC	21048	C032/C033/C034
C023	C-0S3611	C-121-01417	E005	2047-06	1-0 N OF C8	CC	21048	C035/C036/C037/C038
C024	C-0S3611	C-121-01417	E005	2047-06.	1-0 N OF C8	7-10 E OF CC	21048	C396/C397/C398
C025	C-0S3611	C-121-01417	E005	2047-06	1-0 N OF C8	19-3 W OF CA	21048	C158/C159/C160/C161
C026	C-0S3611	C-121-01417	E005	2047-06	1-0 N OF C8	14-6 W OF CA	21349	C354
C027	C-0S3611	C-121-01417	E005	2047-06	13-6 N OF C7	2-0 W OF CA	21048	C162/C163/C164
C028	C-0S3611	C-121-01417	E005	2047-06	13-0 S OF C5	2-0 W OF CA	21048	C373/C374/C375
C029	C-0S3611	C-121-01417	E005	2047-06	7-10 S OF C5	2-0 W OF CA	21048	C376/C377
C030	C-0S3611	C-121-01417	E005	2047-06	8-0 N OF C5	2-0 W OF CA	21048	C039/C040/C041/C395
C031	C-0S3611	C-121-01417	E005	2047-06	5-0 S OF C3	2-0 W OF CA	21046	C362/C363/C364
C032	C-0S3611	C-121-01417	E005	2047-06	1-0 S OF C1	14-6 W OF CA	21349	C383
C033	C-0S3611	C-121-01417	E005	2047-06	1-0 S OF C1	15-10 W OF CC	21047	C042
C034	C-0S3611	C-121-01417	E005	2047-06	1-0 S OF C1	2-0 E OF CF	21046	C043
C035	C-0S3612	C-121-01484	E012	2059-03	1-0 N OF C8	10-9 E OF CC	21031	C044/C045/C046/C047
C036	C-0S3612	C-121-01484	E012	2059-03	C7	15-0 W OF CA	21032	C048/C049/C050
C037	C-0S3612	C-121-01484	E012	2059-03	0-6 N OF C7	13-8 W OF CA	21032	C051/C052/C053
C038	C-0S3612	C-121-01484	E012	2059-03	11-4 N OF C7	2-0 W OF CA	21031	C054/C055/C056/C057
C039	C-0S3612	C-121-01484	E012	2059-03	9-5 S OF C5	2-0 W OF CA	21031	C058/C059/C060/C061
C040	C-0S3612	C-121-01484	E012	2059-03	5-4 S OF C5	7-0 W OF CA	21032	C062/C063/C064
C041	C-0S3612	C-121-01484	E012	2059-03	C5	7-0 W OF CA	21031	C165/C166/C385
C042	C-0S3612	C-121-01484	E012	2059-03	7-7 N OF C5	7-0 W OF CA	21032	C065/C066/C067
C043	C-0S3612	C-121-01484	E012	2059-03	13-4 S OF C3	2-0 W OF CA	21031	C068/C069/C070
C044	C-0S3612	C-121-01484	E012	2059-03	C3	13-10 W OF CA	-----	N/A
C045	C-0S3612	C-121-01484	E012	2059-03	1-0 S OF C1	9-0 W OF CC	21031	C071
C046	C-0S3612	C-121-01484	E012	2059-03	C3	0-6 E OF CF	21031	C072/C073/C074/C075
C047	C-0S3612	C-121-01484	E012	2059-03	C5	0-6 E OF CF	21031	C167/C168/C169/C387/C388
C048	C-0S3612	C-121-01484	E012	2059-03	6-5 S OF C5	0-6 E OF CF	21031	C076/C077/C078/C079
C049	C-0S3612	C-121-01484	E012	2059-03	9-5 S OF C5	0-6 E OF CF	21031	C080/C081/C082

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.
C050	C-0S3612	C-121-01484	E012	2059-03	11-4 N OF C7	0-6 E OF CF	21031	C083/C084/C085/C086
C051	C-0S3612	C-121-01484	E012	2059-03	3-4 N OF C7	0-6 E OF CF	21031	C087/C088
C052	C-0S3612	C-121-01484	E012	2059-03	0-6 N OF C7	3-0 E OF CF	21032	C089/C090/C091
C053	C-0S3612	C-121-01484	E012	2059-03	0-6 N OF C7	9-6 E OF CF	21032	C092/C093/C094/C389
C054	C-0S3612	C-121-01484	E012	2059-03	0-6 N OF C7	15-10 W OF CC	21032	C095/C096/C097
C055	C-0S3612	C-121-01484	E012	2059-03	0-6 N OF C7	9-5 W OF CC	21031	C098/C099/C100/C351
C056	C-0S3711	C-121-01420	E006	2073-06	1-0 N OF C8	2-0 E OF CF	21002	C116
C057	C-0S3711	C-121-01420	E006	2073-06	1-0 N OF C8	7-0 E OF CF	21002	C117
C058	C-0S3711	C-121-01420	E006	2073-06	1-0 N OF C8	10-11 W OF CC	21001	C118/C119
C059	C-0S3711	C-121-01420	E006	2073-06	1-0 N OF C8	8-0 W OF CC	21001	C120/C121
C060	C-0S3711	C-121-01420	E006	2073-06	1-0 N OF C8	CC	21001	C122/C123
C061	C-0S3711	C-121-01420	E006	2073-06	1-0 N OF C8	7-10 E OF CC	21001	C124/C125
C062	C-0S3711	C-121-01420	E006	2073-06	1-0 N OF C8	15-9 E OF CC	21002	C126
C063	C-0S3711	C-121-01420	E006	2073-06	1-0 N OF C8	14-6 W OF CA	21349	C355
C064	C-0S3711	C-121-01420	E006	2073-06	5-3 N OF C8	2-0 W OF CA	21002	C127
C065	C-0S3711	C-121-01420	E006	2073-06	4-3 S OF C7	2-0 W OF CA	21002	C128
C066	C-0S3711	C-121-01420	E006	2073-06	C7	2-0 W OF CA	21002	C129
C067	C-0S3711	C-121-01420	E006	2073-06	13-6 N OF C7	2-0 W OF CA	21002	C130
C068	C-0S3711	C-121-01420	E006	2073-06	13-0 S OF C5	2-0 W OF CA	21001	C131/C132/C133
C069	C-0S3711	C-121-01420	E006	2073-06	7-10 S OF C5	2-0 W OF CA	21002	C134/C135/C369/C370
C070	C-0S3711	C-121-01420	E006	2073-06	C5	2-0 W OF CA	21349	INACCESSIBLE
C071	C-0S3711	C-121-01420	E006	2073-06	8-0 N OF C5	2-0 W OF CA	21002	C170/C171/C367/C368
C072	C-0S3711	C-121-01420	E006	2073-06	5-6 S OF C3	2-0 W OF CA	21001	C136/C137/C138/C139
C073	C-0S3711	C-121-01420	E006	2073-06	C3	2-0 W OF CA	21002	C140
C074	C-0S3711	C-121-01420	E006	2073-06	11-6 N OF C3	2-0 W OF CA	21349	C356
C075	C-0S3711	C-121-01420	E006	2073-06	9-3 S OF C1	2-0 W OF CA	21001	C141
C076	C-0S3711	C-121-01420	E006	2073-06	5-3 S OF C1	2-0 W OF CA	21002	C142
C077	C-0S3711	C-121-01420	E006	2073-06	1-0 S OF C1	14-6 W OF CA	21349	C357
C078	C-0S3711	C-121-01420	E006	2073-06	1-0 S OF C1	15-9 E OF CC	21001	C143/C144
C079	C-0S3711	C-121-01420	E006	2073-06	1-0 S OF C1	7-10 E OF CC	21002	C145
C080	C-0S3711	C-121-01420	E006	2073-06	1-0 S OF C1	CC	21001	C146
C081	C-0S3711	C-121-01420	E006	2073-06	1-0 S OF C1	8-0 W OF CC	21002	C147
C082	C-0S3711	C-121-01420	E006	2073-06	1-0 S OF C1	13-6 W OF CC	21002	C148
C083	C-0S3711	C-121-01420	E006	2073-06	1-0 S OF C1	19-0 W OF CC	21001	C149
C084	C-0S3711	C-121-01420	E006	2073-06	1-0 S OF C1	8-3 E OF CF	21001	C150
C085	C-0S3711	C-121-01420	E006	2073-06	1-0 S OF C1	2-0 E OF CF	21033	C151/C152
C086	C-0S3711	C-121-01420	E006	2073-06	C3	0-6 E OF CF	21001	C153/C154
C087	C-0S3711	C-121-01420	E006	2073-06	C5	0-6 E OF CF	21001	C155/C156
C088	C-0S3711	C-121-01420	E006	2073-06	C7	0-6 E OF CF	21001	C157
C089	C-0S3211	C-121-01426	E001	1984-00	2-0 N OF C8	CD	20899	C172/C173/C174
C090	C-0S3211	C-121-01426	E001	1984-00	2-0 N OF C8	CC	20899	C312/C313/C314/C315
C091	C-0S3211	C-121-01426	E001	1984-00	2-0 N OF C8	1-9 W OF CB	21133	C353
C092	C-0S3211	C-121-01426	E001	1984-00	7-6 N OF C8	2-0 W OF CA	-----	N/A
C093	C-0S3211	C-121-01426	E001	1984-00	C7	2-0 W OF CA	20899	C175/C176/C399
C094	C-0S3211	C-121-01426	E001	1984-00	8-0 S OF C5	2-0 W OF CA	20899	C316
C095	C-0S3211	C-121-01426	E001	1984-00	6-0 S OF C5	2-0 W OF CA	20900	C177
C096	C-0S3211	C-121-01426	E001	1984-00	C5	2-0 W OF CA	20900	C178
C097	C-0S3211	C-121-01426	E001	1984-00	C4	2-0 W OF CA	20900	C317
C098	C-0S3211	C-121-01426	E001	1984-00	8-0 N OF C4	2-0 W OF CA	20899	C179/C180/C181
C099	C-0S3211	C-121-01426	E001	1984-00	C3	2-0 W OF CA	20899	C182/C183/C184/C185
C100	C-0S3211	C-121-01426	E001	1984-00	5-9 N OF C3	2-0 W OF CA	20900	C186

STRUCTURAL JOINTS TRACKING

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JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.
C101	C-0S3211	C-121-01426	E001	1984-00	C2	2-0 W OF CA	20899	C318
C102	C-0S3211	C-121-01426	E001	1984-00	6-10 N OF C2	2-0 W OF CA	20899	C319
C103	C-0S3211	C-121-01426	E001	1984-00	2-0 S OF C1	6-6 W OF CA	20900	C320
C104	C-0S3211	C-121-01426	E001	1984-00	2-0 S OF C1	CB	20899	C321/C322/C323/C324
C105	C-0S3211	C-121-01426	E001	1984-00	2-0 S OF C1	CC	20899	C187/C188/C189/C190
C106	C-0S3211	C-121-01426	E001	1984-00	2-0 S OF C1	CD	20899	C191/C192/C193/C194
C107	C-0S3211	C-121-01426	E001	1984-00	2-0 S OF C1	2-6 W OF CD	20900	C195
C108	C-0S3211	C-121-01426	E001	1984-00	5-9 N OF C2	1-6 E OF CF	20900	C196
C109	C-0S3211	C-121-01426	E001	1984-00	C2	1-6 E OF CF	-----	N/A
C110	C-0S3211	C-121-01426	E001	1984-00	5-9 N OF C3	1-6 E OF CF	20900	C197
C111	C-0S3211	C-121-01426	E001	1984-00	C3	1-6 E OF CF	20899	C198/C199
C112	C-0S3211	C-121-01426	E001	1984-00	8-0 N OF C4	1-6 E OF CF	20900	C200
C113	C-0S3211	C-121-01426	E001	1984-00	C4	1-6 E OF CF	20899	C201/C202/C203/C204
C114	C-0S3211	C-121-01426	E001	1984-00	C5	1-6 E OF CF	20899	C205/C206/C207/C208
C115	C-0S3211	C-121-01426	E001	1984-00	8-0 N OF C6	1-6 E OF CF	20900	C209
C116	C-0S3211	C-121-01426	E001	1984-00	C7	1-6 E OF CF	20899	C210/C211
C117	C-0S3211	C-121-01426	E001	1984-00	7-6 N OF C8	1-6 E OF CF	20899	C212/C213
C118	C-0S3311	C-121-01408	E002	2000-00	2-0 N OF C8	3-0 E OF CF	20948	C214
C119	C-0S3311	C-121-01408	E002	2000-00	2-0 N OF C8	8-0 W OF CC	20947	C215/C216
C120	C-0S3311	C-121-01408	E002	2000-00	2-0 N OF C8	CC	20848	C217
C121	C-0S3311	C-121-01408	E002	2000-00	2-0 N OF C8	7-10 E OF CC	20947	C218/C219
C122	C-0S3311	C-121-01408	E002	2000-00	2-0 N OF C8	15-9 E OF CC	20947	C220/C221
C123	C-0S3311	C-121-01408	E002	2000-00	5-3 N OF C8	2-0 W OF CA	20948	C222
C124	C-0S3311	C-121-01408	E002	2000-00	9-3 N OF C8	2-0 W OF CA	20947	C223/C224
C125	C-0S3311	C-121-01408	E002	2000-00	13-6 N OF C8	2-0 W OF CA	20948	C225/C386
C126	C-0S3311	C-121-01408	E002	2000-00	C5	2-0 W OF CA	21349	INACCESSIBLE
C127	C-0S3311	C-121-01408	E002	2000-00	C3	2-0 W OF CA	20947	C226
C128	C-0S3311	C-121-01408	E002	2000-00	13-6 S OF C1	2-0 W OF CA	20912	C227/C228
C129	C-0S3311	C-121-01408	E002	2000-00	9-3 S OF C1	2-0 W OF CA	20947	C229/C230
C130	C-0S3311	C-121-01408	E002	2000-00	5-3 S OF C1	2-0 W OF CA	20948	C231
C131	C-0S3311	C-121-01408	E002	2000-00	2-0 S OF C1	20-6 E OF CC	20947	C232/C233/C234
C132	C-0S3311	C-121-01408	E002	2000-00	2-0 S OF C1	15-9 E OF CC	20947	C235/C236
C133	C-0S3311	C-121-01408	E002	2000-00	2-0 S OF C1	7-10 E OF CC	20947	C237/C238
C134	C-0S3311	C-121-01408	E002	2000-00	2-0 S OF C1	CC	20948	C239
C135	C-0S3311	C-121-01408	E002	2000-00	2-0 S OF C1	6-4 W OF CC	20948	C240
C136	C-0S3311	C-121-01408	E002	2000-00	2-0 S OF C1	12-8 W OF CC	20947	C241
C137	C-0S3311	C-121-01408	E002	2000-00	2-0 S OF C1	14-6 E OF CF	20947	C242/C243
C138	C-0S3311	C-121-01408	E002	2000-00	C3	1-6 E OF CF	20948	C244
C139	C-0S3311	C-121-01408	E002	2000-00	C7	1-6 E OF CF	20948	C245
C140	C-0S3411	C-121-01411	E003	2016-00	1-0 N OF C8	2-0 E OF CF	20916	C269
C141	C-0S3411	C-121-01411	E003	2016-00	1-0 N OF C8	8-0 W OF CC	20916	INACCESSIBLE
C142	C-0S3411	C-121-01411	E003	2016-00	1-0 N OF C8	CC	20915	C271/C272
C143	C-0S3411	C-121-01411	E003	2016-00	5-3 N OF C8	2-0 W OF CA	20916	C273
C144	C-0S3411	C-121-01411	E003	2016-00	9-3 N OF C8	2-0 W OF CA	20916	C274
C145	C-0S3411	C-121-01411	E003	2016-00	C7	2-0 W OF CA	20916	C275/C276
C146	C-0S3411	C-121-01411	E003	2016-00	7-10 N OF C7	2-0 W OF CA	20915	C277/C278
C147	C-0S3411	C-121-01411	E003	2016-00	18-0 S OF C5	2-0 W OF CA	20916	C279
C148	C-0S3411	C-121-01411	E003	2016-00	13-0 S OF C5	2-0 W OF CA	20916	C280
C149	C-0S3411	C-121-01411	E003	2016-00	7-10 S OF C5	2-0 W OF CA	20915	INACCESSIBLE
C150	C-0S3411	C-121-01411	E003	2016-00	C5	2-0 W OF CA	20916	C283
C151	C-0S3411	C-121-01411	E003	2016-00	8-0 N OF C5	2-0 W OF CA	20916	C284/C394

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.
C152	C-0S3411	C-121-01411	E003	2016-00	16-0 N OF C5	2-0 W OF CA	20916	C285
C153	C-0S3411	C-121-01411	E003	2016-00	8-0 S OF C3	2-0 W OF CA	20915	C286
C154	C-0S3411	C-121-01411	E003	2016-00	5-0 S OF C3	2-0 W OF CA	20916	C287
C155	C-0S3411	C-121-01411	E003	2016-00	C3	2-0 W OF CA	20916	C288
C156	C-0S3411	C-121-01411	E003	2016-00	8-0 N OF C3	2-0 W OF CA	20916	C289
C157	C-0S3411	C-121-01411	E003	2016-00	9-0 S OF C1	2-0 W OF CA	20915	C290/C400
C158	C-0S3411	C-121-01411	E003	2016-00	5-3 S OF C1	2-0 W OF CA	20915	C291
C159	C-0S3411	C-121-01411	E003	2016-00	1-0 S OF C1	14-6 W OF CA	21349	C359
C160	C-0S3411	C-121-01411	E003	2016-00	1-0 S OF C1	14-6 E OF CF	20915	C292
C161	C-0S3411	C-121-01411	E003	2016-00	C3	0-6 E OF CF	20916	C293
C162	C-0S3411	C-121-01411	E003	2016-00	8-0 S OF C3	0-6 E OF CF	20915	C294
C163	C-0S3411	C-121-01411	E003	2016-00	16-0 N OF C5	0-6 E OF CF	20916	C295
C164	C-0S3411	C-121-01411	E003	2016-00	8-0 N OF C5	0-6 E OF CF	20915	C296
C165	C-0S3411	C-121-01411	E003	2016-00	C5	0-6 E OF CF	20915	C297
C166	C-0S3411	C-121-01411	E003	2016-00	7-10 S OF C5	0-6 E OF CF	20916	C298
C167	C-0S3411	C-121-01411	E003	2016-00	15-9 N OF C7	0-6 E OF CF	20916	C299
C168	C-0S3411	C-121-01411	E003	2016-00	7-10 N OF C7	0-6 E OF CF	20916	C300
C169	C-0S3411	C-121-01411	E003	2016-00	C7	0-6 E OF CF	20916	C301
C170	C-0S3511	C-121-01414	E004	2032-00	1-0 N OF C8	2-0 E OF CF	21015	C247
C171	C-0S3511	C-121-01414	E004	2032-00	1-0 N OF C8	16-5 E OF CF	-----	N/A
C172	C-0S3511	C-121-01414	E004	2032-00	1-0 N OF C8	CC	21015	C248
C173	C-0S3511	C-121-01414	E004	2032-00	1-0 N OF C8	14-6 W OF CA	21349	C361/C382
C174	C-0S3511	C-121-01414	E004	2032-00	5-3 N OF C8	2-0 W OF CA	21015	C305
C175	C-0S3511	C-121-01414	E004	2032-00	4-3 S OF C7	2-0 W OF CA	21015	C306
C176	C-0S3511	C-121-01414	E004	2032-00	C7	2-0 W OF CA	21015	C249
C177	C-0S3511	C-121-01414	E004	2032-00	7-10 N OF C7	2-0 W OF CA	21015	C250
C178	C-0S3511	C-121-01414	E004	2032-00	13-6 N OF C7	2-0 W OF CA	21014	C251
C179	C-0S3511	C-121-01414	E004	2032-00	13-0 S OF C5	2-0 W OF CA	21014	C252
C180	C-0S3511	C-121-01414	E004	2032-00	7-10 S OF C5	2-0 W OF CA	21015	C253/C366
C181	C-0S3511	C-121-01414	E004	2032-00	C5	2-0 W OF CA	21015	C254
C182	C-0S3511	C-121-01414	E004	2032-00	8-0 N OF C5	2-0 W OF CA	21015	C255/C365
C183	C-0S3511	C-121-01414	E004	2032-00	16-0 N OF C5	2-0 W OF CA	21014	C256/C257
C184	C-0S3511	C-121-01414	E004	2032-00	8-0 S OF C3	2-0 W OF CA	21015	C258
C185	C-0S3511	C-121-01414	E004	2032-00	5-0 S OF C3	2-0 W OF CA	21015	C259
C186	C-0S3511	C-121-01414	E004	2032-00	C3	2-0 W OF CA	21014	C260/C261
C187	C-0S3511	C-121-01414	E004	2032-00	8-0 N OF C3	2-0 W OF CA	21015	C307
C188	C-0S3511	C-121-01414	E004	2032-00	8-0 S OF C1	2-0 W OF CA	21015	C262
C189	C-0S3511	C-121-01414	E004	2032-00	C3	0-6 E OF CF	-----	N/A
C190	C-0S3511	C-121-01414	E004	2032-00	8-0 S OF C3	0-6 E OF CF	21015	C344
C191	C-0S3511	C-121-01414	E004	2032-00	8-0 N OF C5	0-6 E OF CF	21015	C263
C192	C-0S3511	C-121-01414	E004	2032-00	C5	0-6 E OF CF	21015	C264
C193	C-0S3511	C-121-01414	E004	2032-00	7-10 S OF C5	0-6 E OF CF	21015	C265
C194	C-0S3511	C-121-01414	E004	2032-00	15-9 S OF C5	0-6 E OF CF	21015	C266
C195	C-0S3511	C-121-01414	E004	2032-00	7-10 N OF C7	0-6 E OF CF	21015	C267
C196	C-0S3511	C-121-01414	E004	2032-00	C7	0-6 E OF CF	21014	C268
C197	C-0S3611	C-121-01417	E005	2047-06	1-0 N OF C8	2-0 E OF CF	21047	C325
C198	C-0S3611	C-121-01417	E005	2047-06	1-0 N OF C8	15-0 W OF CC	21047	C345
C199	C-0S3611	C-121-01417	E005	2047-06	5-3 N OF C8	2-0 W OF CA	21047	C346
C200	C-0S3611	C-121-01417	E005	2047-06	4-3 S OF C7	2-0 W OF CA	21047	C347
C201	C-0S3611	C-121-01417	E005	2047-06	C5	2-0 W OF CA	21349	INACCESSIBLE
C202	C-0S3611	C-121-01417	E005	2047-06	C3	2-0 W OF CA	21046	C326/C327

STRUCTURAL JOINTS TRACKING

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BECHTEL

JOINT	DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.
C203	C-0S3611	C-121-01417	E005	2047-06	11-6 N OF C3	2-0 W OF CA	21046	C348
C204	C-0S3611	C-121-01417	E005	2047-06	9-3 S OF C1	2-0 W OF CA	21047	C349
C205	C-0S3611	C-121-01417	E005	2047-06	5-3 S OF C1	2-0 W OF CA	21047	C350
C206	C-0S3611	C-121-01417	E005	2047-06	1-0 S OF C1	15-9 E OF CC	21047	C328
C207	C-0S3611	C-121-01417	E005	2047-06	1-0 S OF C1	7-10 E OF CC	21046	C329/C330
C208	C-0S3611	C-121-01417	E005	2047-06	1-0 S OF C1	CC	21046	C331/C332
C209	C-0S3611	C-121-01417	E005	2047-06	1-0 S OF C1	8-0 W OF CC	21046	C333/C334
C210	C-0S3611	C-121-01417	E005	2047-06	1-0 S OF C1	9-10 E OF CF	21046	C335/C336
C211	C-0S3611	C-121-01417	E005	2047-06	C3	0-6 E OF CF	21046	C337
C212	C-0S3612	C-121-01484	E012	2059-03	1-0 S OF C1	12-3 E OF CF	20904	C338/C339/C340
C213	C-0S3612	C-121-01484	E012	2059-03	14-3 N OF C3	0-6 E OF CF	20904	C341/C342
C214	C-0S3612	C-121-01484	E012	2059-03	10-4 S OF C3	0-6 E OF CF	21349	C390
C215	C-0S3612	C-121-01484	E012	2059-03	10-9 N OF C5	0-6 E OF CF	21349	C391
C216	C-0S3811	C-121-09015	E007	2087-02	C7	2-3 E OF CF	21349	INACCESSIBLE
C217	C-0S3811	C-121-09015	E007	2087-02	C7	9-1 E OF CF	21349	INACCESSIBLE
C218	C-0S3811	C-121-09015	E007	2087-02	C7	15-11E OF CF	21349	INACCESSIBLE
C219	C-0S3811	C-121-09015	E007	2087-02	C7	10-9 W OF CC	21349	INACCESSIBLE
C220	C-0S3612	C-121-01485	E013	2059-03	C3	CC	21019	C308
C221	C-0S3612	C-121-01485	E013	2059-03	C5	CC	21019	C309
C222	C-0S3612	C-121-01485	E013	2059-03	C5	CC	21019	C310
C223	C-0S3612	C-121-01485	E013	2059-03	C7	CC	21019	C311
C224	C-0S3411	C-121-01411	E003	2016-00	1-0 N OF C8	15-0 W OF CC	20916	C302
C225	C-0S3411	C-121-01411	E003	2016-00	5-0 S OF C1	0-6 E OF CF	20915	C303/C304
C226	C-0S3711	C-121-01420	E006	2073-06	C7	9-10 E OF CF	-----	N/A
C227	C-0S3711	C-121-01420	E006	2073-06	C7	15-10 W OF CC	21301	C371
C228	C-0S3612	C-121-01484	E012	2059-03	11-9 N OF C3	CC	21300	C372
C229	C-0S3612	C-121-01484	E012	2059-03	11-9 N OF C3	3-3 E OF CC	-----	N/A
C230	C-0C3902	C-131-05505	4B-E7	2071-00	5-10 N OF C5	0-6 E OF CF	21349	INACCESSIBLE
C231	C-0C3902	C-131-05505	4B-E7	2060-02	5-10 N OF C5	0-6 E OF CF	21349	INACCESSIBLE
C232	C-0C3902	C-131-05505	4B-E7	2060-02	5-10 N OF C5	0-6 E OF CF	21349	INACCESSIBLE
C233	C-0C3902	C-131-05505	4B-E7	2049-04	5-10 N OF C5	0-6 E OF CF	21349	INACCESSIBLE
C234	C-0C3902	C-131-05505	4B-E7	2071-00	7-9 N OF C5	0-6 E OF CF	21349	INACCESSIBLE
C235	C-0C3902	C-131-05505	4B-E7	2060-02	7-9 N OF C5	0-6 E OF CF	21349	INACCESSIBLE
C236	C-0C3902	C-131-05505	4B-E7	2060-02	7-9 N OF C5	0-6 E OF CF	21349	INACCESSIBLE
C237	C-0C3902	C-131-05505	4B-E7	2049-04	7-9 N OF C5	0-6 E OF CF	21349	INACCESSIBLE
C238	C-0C3902	C-131-05505	4B-E7	2071-00	5-3 S OF C4	0-6 E OF CF	21349	INACCESSIBLE
C239	C-0C3902	C-131-05505	4B-E7	2060-02	5-3 S OF C4	0-6 E OF CF	21349	INACCESSIBLE
C240	C-0C3902	C-131-05505	4B-E7	2060-02	5-3 S OF C4	0-6 E OF CF	21349	INACCESSIBLE
C241	C-0C3902	C-131-05505	4B-E7	2049-04	5-3 S OF C4	0-6 E OF CF	21349	INACCESSIBLE
C242	C-0C3902	C-131-05505	4B-E7	2071-00	0-11 S OF C4	0-6 E OF CF	21349	INACCESSIBLE
C243	C-0C3902	C-131-05505	4B-E7	2060-02	0-11 S OF C4	0-6 E OF CF	21349	INACCESSIBLE
C244	C-0C3902	C-131-05505	4B-E7	2060-02	0-11 S OF C4	0-6 E OF CF	21349	INACCESSIBLE
C245	C-0C3902	C-131-05505	4B-E7	2049-04	0-11 S OF C4	0-6 E OF CF	21349	INACCESSIBLE
C246	C-0C3902	C-131-05505	4B-E7	2071-00	1-0 N OF C4	0-6 E OF CF	21349	INACCESSIBLE
C247	C-0C3902	C-131-05505	4B-E7	2060-02	1-0 N OF C4	0-6 E OF CF	21349	INACCESSIBLE
C248	C-0C3902	C-131-05505	4B-E7	2060-02	1-0 N OF C4	0-6 E OF CF	21349	INACCESSIBLE
C249	C-0C3902	C-131-05505	4B-E7	2049-04	1-0 N OF C4	0-6 E OF CF	21349	INACCESSIBLE
C250	C-0C3902	C-131-05505	4B-E7	2071-00	5-8 N OF C4	0-6 E OF CF	21349	INACCESSIBLE
C251	C-0C3902	C-131-05505	4B-E7	2060-02	5-8 N OF C4	0-6 E OF CF	21349	INACCESSIBLE
C252	C-0C3902	C-131-05505	4B-E7	2060-02	5-8 N OF C4	0-6 E OF CF	21349	INACCESSIBLE
C253	C-0C3902	C-131-05505	4B-E7	2049-04	5-8 N OF C4	0-6 E OF CF	21349	INACCESSIBLE

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.	
C254	C-0C3111			2047-06	C3	9-6 W OF CC	-----	N/A	NCR 1SN5847C
C255	C-0C3111			2047-06	C3	9-6 W OF CC	-----	N/A	NCR 1SN5847C
C256	C-0S3711	C-121-01420	E6	2073-06	27-0 N OF C8	5-6 W OF CA	21349	INACCESSIBLE	FAB REQ. 50
C257	C-0S3711	C-121-01420	E6	2073-06	32-0 N OF C8	5-6 W OF CA	21349	INACCESSIBLE	FAB REQ. 50
C258	C-0S3211	C-121-01426	E1	1984-00	13-6 N OF C8	11-0 E OF CC	21395	C392	NCR 1-0238C
C259	C-0S3211	C-121-01426	E1	1984-00	21-3 N OF C8	11-0 E OF CC	21395	C393	NCR 1-0238C
CA	C-0S3311	C-121-01408	E002	2000-00	C5	1-6 E OF CF	20566	C006	
CB	C-0S3511	C-121-01414	E004	2032-00	8-0 N OF C3	0-6 E OF CF	-----	N/A	
CC	C-0S3511	C-121-01414	E004	2032-00	9-0 S OF C1	0-6 E OF CF	-----	N/A	
CD	C-0S3611	C-121-01417	E005	2047-06	C7	0-6 E OF CF	20566	C003	
CE	C-0S3611	C-121-01417	E005	2047-06	C5	0-6 E OF CF	20566	C004/C005	
CF	C-0S3611	C-121-01417	E005	2047-06	C7	2-0 W OF CA	20566	C001/C002	

..... END REPORT .....

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.	
D001	C-0S5211	C-121-08958	E002	2029-07	1-0 N OF D6	3-3 W OF DB	20865	D012/D013	
D002	C-0S5211	C-121-08958	E002	2029-07	1-0 N OF D6	3-9 W OF DA	20865	D014/D015	
D003	C-0S5213	C-121-08840	E008	2031-02	10-6 S OF D1	1-0 E OF DB	21198	D016/D017	
D004	C-0S5213	C-121-08840	E008	2031-02	0-6 S OF D1	1-0 E OF DB	21198	D018/D019	
D005	C-0S5213	C-121-08840	E008	2045-06	3-1 S OF D2	24-3 E OF DC	21198	D069	
D006	C-0S5213	C-121-08861	E009	2016-02	7-0 N OF D28	0-6 E OF DC	21732	D068	
D007	C-0S5311	C-121-08831	E003	2047-02	D3	0-6 E OF DC	21186	D071/D101	
D008	C-0S5311	C-121-08831	E003	2047-02	D2	0-6 E OF DC	21186	D072/D073	
D009	C-0S5311	C-121-08831	E003	2047-02	7-0 N OF D2	0-6 E OF DC	21186	D074	
D010	C-0S5311	C-121-08831	E003	2047-02	D5	1-0 W OF DB	21186	D075	
D011	C-0S5311	C-121-08831	E003	2047-02	7-0 N OF D2	1-0 W OF DB	21186	D076/D077	
D012	C-0S5311	C-121-08831	E003	2047-02	7-0 N OF D2	1-0 E OF DB	21741	D070	
D013	C-0S5213	C-121-08861	E009	2016-02	D2	0-6 E OF DC	-----	N/A	
D014	C-0S5213	C-121-08861	E009	2016-02	D28	1-0 E OF DB	-----	N/A	
D015	C-0S5213	C-121-08861	E009	2016-02	7-0 N OF D28	1-0 E OF DB	-----	N/A	
D016	C-0S5213	C-121-08840	E008	2031-02	10-6 S OF D1	0-6 E OF DC	-----	N/A	
D017	C-0S5213	C-121-08840	E008	2031-02	0-6 S OF D1	0-6 E OF DC	-----	N/A	
D018	C-0S5213	C-121-08840	E008	2045-06	3-1 S OF D2	24-9 E OF DB	21198	D020	
D019	C-0S5211	C-121-08958	E002	2029-07	1-0 N OF D6	15-9 W OF DB	-----	N/A	
D020	C-0S5211	C-121-08958	E002	2029-07	D5	0-6 E OF DC	21208	D021/D022	
D021	C-0S5211	C-121-08958	E002	2029-07	D3	0-6 E OF DC	21208	D023/D024	
D022	C-0S5211	C-121-08958	E002	2029-07	D4	1-0 W OF DB	-----	VOID	SAME AS JOINT DA
D023	C-0S5211	C-121-08958	E002	2029-07	D2	1-0 W OF DB	-----	N/A	
D024	C-0S5211	C-121-08958	E002	2029-07	1-0 N OF D6	12-3 W OF DA	21208	D066	
D025	C-0S5211	C-121-08958	E002	2029-07	D5	1-0 E OF DB	21208	D046	
D026	C-0S5211	C-121-08958	E002	2029-07	D3	1-0 E OF DB	21208	D047	
D027	C-0S5311	C-121-08831	E003	2047-02	D5	0-6 E OF DC	21186	D078/D079	
D028	C-0S5311	C-121-08831	E003	2047-02	6-6 N OF D5	0-6 E OF DC	21186	D080/D081	
D029	C-0S5311	C-121-08831	E003	2047-02	6-6 S OF D3	1-0 W OF DB	21186	D082/D083	
D030	C-0S5311	C-121-08831	E003	2047-02	6-6 S OF D3	0-6 E OF DC	21186	D084/D085	
D031	C-0S5311	C-121-08831	E003	2047-02	D5	1-0 E OF DB	21186	D050/D051	
D032	C-0S5311	C-121-08831	E003	2047-02	6-6 N OF D5	1-0 E OF DB	21186	D052/D053	
D033	C-0S5311	C-121-08831	E003	2047-02	6-6 S OF D3	1-0 E OF DB	21186	D054/D055	
D034	C-0S5311	C-121-08831	E003	2047-02	D2	1-0 E OF DB	21186	D056/D057	
D035	C-0S5311	C-121-08831	E003	2047-02	D3	1-0 E OF DB	21186	D058/D059	
D036	C-0S5311	C-121-08831	E003	2047-02	D3	1-0 W OF DB	21186	D086/D087	
D037	C-0S5311	C-121-08831	E003	2047-02	D2	1-0 W OF DB	21186	D088/D089	
D038	C-0S5311	C-121-08831	E003	2047-02	D1	0-6 E OF DC	21186	D090/D091	
D039	C-0S5311	C-121-08831	E003	2047-02	7-0 N OF D2	12-2 E OF DC	-----	N/A	
D040	C-0S5311	C-121-08831	E003	2047-02	D1	12-2 E OF DC	21186	D092	
D041	C-0S5311	C-121-08831	E003	2047-02	7-0 N OF D2	8-8 W OF DB	-----	N/A	
D042	C-0S5311	C-121-08831	E003	2047-02	D1	8-8 W OF DB	-----	N/A	
D043	C-0S5311	C-121-08831	E003	2047-02	D1	1-0 W OF DB	21186	D093/D094	
D044	C-0S5311	C-121-08831	E003	2047-02	D1	1-0 E OF DB	21186	D060/D061	
D045	C-0S5311	C-121-08831	E003	2047-02	7-0 N OF D2	12-8 E OF DB	-----	N/A	
D046	C-0S5311	C-121-08831	E003	2047-02	D1	12-8 E OF DB	-----	N/A	
D047	C-0S5311	C-121-08831	E003	2047-02	7-0 N OF D2	5-2 W OF DA	21186	D062	
D048	C-0S5311	C-121-08831	E003	2047-02	D1	5-2 W OF DA	21186	D063	
D049	C-0S5211	C-121-08958	E002	2027-09	1-0 N OF D6	1-6 E OF DC	21208	D067	

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.
D050	C-055211	C-121-08958	E002	2029-07	D4	0-6 E OF DC	21208	D097
D051	C-055211	C-121-08958	E002	2029-07	D2	0-6 E OF DC	21208	D098/D099
D052	C-055211	C-121-08958	E002	2027-09	1-0 N OF D6	5-3 W OF DB	-----	N/A
D053	C-055211	C-121-08958	E002	2029-07	1-0 N OF D6	4-3 W OF DB	21208	D025
D054	C-055211	C-121-08958	E002	2029-07	D5	1-0 W OF DB	21208	D100
D055	C-055211	C-121-08958	E002	2029-07	D3	1-0 W OF DB	-----	N/A
D056	C-055211	C-121-08958	E002	2027-09	1-0 N OF D6	2-0 E OF DB	21208	D026
D057	C-055211	C-121-08958	E002	2029-07	D4	1-0 E OF DB	21208	D048
D058	C-055211	C-121-08958	E002	2029-07	D2	1-0 E OF DB	21208	D047
D059	C-055211	C-121-08958	E002	2027-09	1-0 N OF D6	1-9 W OF DA	21208	D027
D060	C-055211	C-121-08958	E002	2029-07	1-0 N OF D6	DA	21208	D028
D061	C-055901	C-121-13249	E004	2022-09	1-0 N OF D6	DA	20850	D029
D062	C-055212	C-121-08900	E007	2009-08	8-6 S OF D4	1-0 E OF DB	20851	D030
D063	C-055212	C-121-08900	E007	2006-01	8-6 S OF D4	1-0 E OF DB	-----	N/A
D064	C-055212	C-121-08900	E007	2009-08	5-6 N OF D4	1-0 E OF DB	20851	D031
D065	C-055212	C-121-08900	E007	2006-01	5-6 N OF D4	1-0 E OF DB	-----	N/A
D066	C-055212	C-121-08900	E007	2009-08	10-2 N OF D4	1-0 E OF DB	20851	D032
D067	C-055212	C-121-08900	E007	2006-01	10-2 N OF D4	1-0 E OF DB	-----	N/A
D068	C-055212	C-121-08900	E007	2009-08	8-6 S OF D4	0-6 E OF DC	20851	D033
D069	C-055212	C-121-08900	E007	2006-01	8-6 S OF D4	0-6 E OF DC	20851	D034
D070	C-055212	C-121-08900	E007	2009-08	5-6 N OF D4	0-6 E OF DC	20851	D035
D071	C-055212	C-121-08900	E007	2006-01	5-6 N OF D4	0-6 E OF DC	20851	D036
D072	C-055212	C-121-08900	E007	2009-08	10-2 N OF D4	0-6 E OF DC	20851	D037
D073	C-055212	C-121-08900	E007	2006-01	10-2 N OF D4	0-6 E OF DC	20851	D038
D074	C-055311	C-121-08831	E003	2047-02	6-6 N OF D5	1-0 W OF DB	21186	D095/D096
D075	C-055311	C-121-08831	E003	2047-02	1-0 N OF D6	DA	21186	D064
D076	C-055212	C-121-08899	E006	2019-03	1-10 N OF D6	0-6 E OF DC	20868	D040
D077	C-055212	C-121-08899	E006	2019-03	4-0 N OF D6	0-6 E OF DC	-----	N/A
D078	C-055212	C-121-08899	E006	2019-03	1-0 N OF D6	11-0 E OF DC	20868	D041
D079	C-055212	C-121-08899	E006	2016-03	1-0 N OF D6	11-0 E OF DC	-----	N/A
D080	C-055212	C-121-08899	E006	2019-03	1-0 N OF D6	11-6 W OF DB	-----	N/A
D081	C-055212	C-121-08899	E006	2016-03	1-0 N OF D6	11-6 W OF DB	-----	N/A
D082	C-055212	C-121-08899	E006	2019-03	1-0 N OF D6	8-6 W OF DB	-----	N/A
D083	C-055212	C-121-08899	E006	2019-03	1-0 N OF D6	4-6 W OF DB	-----	N/A
D084	C-055212	C-121-08899	E006	2019-03	1-0 N OF D6	1-10 W OF DB	-----	N/A
D085	C-055212	C-121-08899	E006	2019-03	6-6 N OF D6	1-0 W OF DB	20868	D042
D086	C-055212	C-121-08899	E006	2019-03	1-0 N OF D6	3-0 E OF DB	20867	D043
D087	C-055212	C-121-08899	E006	2016-03	1-0 N OF D6	3-0 E OF DB	20868	D044
D088	C-055212	C-121-08899	E006	2019-03	1-0 N OF D6	15-9 E OF DB	20867	D045
D089	C-055212	C-121-08899	E006	2016-03	1-0 N OF D6	15-9 E OF DB	20868	D039
D090	C-055212	C-121-08899	E006	2019-03	1-0 N OF D6	1-0 W OF DA	-----	N/A
D091	C-055212	C-121-08899	E006	2016-03	1-0 N OF D6	1-0 W OF DA	-----	N/A
D092	C-055213	C-121-08840	E008	2045-06	3-1 S OF D2	12-3 E OF DC	21307	D102
D093	C-055213	C-121-08840	E008	2045-06	3-1 S OF D2	12-9 E OF DB	21307	D103
DA	C-055211	C-121-08958	E002	2029-07	D4	1-0 W OF DB	21569	D104
DB	C-055213	C-121-08861	E009	2016-02	D2	1-0 E OF DB	20565	D009/D010/D011
DC	C-055213	C-121-08861	E009	2016-02	D2.8	0-6 E OF DC	20565	D007/D008
DD	C-055311	C-121-08831	E003	2047-02	D4	1-0 E OF DB	20565	D001/D002
DE	C-055311	C-121-08831	E003	2047-02	D4	1-0 W OF DB	20565	D003/D004
DF	C-055311	C-121-08831	E003	2047-02	D4	0-6 E OF DC	20565	D005/D006

..... END REPORT .....

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.	
F001	C-0S6311	C-121-19001	E002	2047-06	7-9 N OF F7	8-4 W OF FC	20986	F060/F061	
F002	C-0S6311	C-121-19001	E002	2047-06	F6	8-4 W OF FC	20986	F062/F063/F115	
F003	C-0S6311	C-121-19001	E002	2047-06	7-6 N OF F6	8-4 W OF FC	20986	F064/F065	
F004	C-0S6311	C-121-19001	E002	2047-06	7-9 S OF F5	8-4 W OF FC	20986	F066/F067/F068	
F005	C-0S6211	C-121-19027	E003	2026-00	2-0 S OF F1	1-0 E OF FD	20849	F051	
F006	C-0S6211	C-121-19027	E003	2026-00	9-4 S OF F1	1-0 E OF FD	20849	F018	
F007	C-0S6211	C-121-19027	E003	2026-00	5-10 N OF F2	1-0 E OF FD	20849	F019/F020	
F008	C-0S6211	C-121-19027	E003	2026-00	F2	4-0 E OF FD	20849	F021	
F009	C-0S6211	C-121-19027	E003	2026-00	6-8 S OF F2	1-0 E OF FD	20849	F022/F023	
F010	C-0S6211	C-121-19027	E003	2026-00	6-8 N OF F3	1-0 E OF FD	20848	F024/F025	
F011	C-0S6211	C-121-19027	E003	2026-00	6-8 S OF F3	1-0 E OF FD	20849	F026	
F012	C-0S6211	C-121-19027	E003	2026-00	6-8 N OF F4	1-0 E OF FD	20849	F027	
F013	C-0S6211	C-121-19027	E003	2026-00	6-4 S OF F4	1-0 E OF FD	20849	F028	
F014	C-0S6211	C-121-19027	E003	2026-00	7-[illegible] N OF F5	1-0 E OF FD	20849	F029	
F015	C-0S6211	C-121-19027	E003	2026-00	1-0 S OF F5	9-4 W OF FC	20849	F030/F031	
F016	C-0S6211	C-121-19027	E003	2026-00	F6	9-4 W OF FC	20849	F015/F016	
F017	C-0S6211	C-121-19027	E003	2026-00	1-6 S OF F6	8-4 W OF FC	20849	F010/F011	
F018	C-0S6211	C-121-19027	E003	2026-00	7-4 N OF F7	8-4 W OF FC	20849	F012	
F019	C-0S6211	C-121-19027	E003	2026-00	4-0 N OF F7	FC	20849	F014	
F020	C-0S6211	C-121-19027	E003	2026-00	F4	4-0 E OF FD	20849	F017	
F021	C-0S6511	C-121-19029	E005	2083-06	F6	5-3 E OF FD	[illegible]84	F032/F033	
F022	C-0S6511	C-121-19029	E005	2083-06	1-0 N OF F7	5-3 E OF FD	20864	F034/F035/F036	
F023	C-0S6511	C-121-19029	E005	2083-06	1-0 N OF F7	5-3 W OF FA	20864	F037/F038/F039	
F024	C-0S6511	C-121-19029	E005	2083-06	F6	5-3 W OF FA	-----	VOID	NO WELD REQUIRED
F025	C-0S6511	C-121-12029	E005	2083-06	6-6 S OF F5	1-0 W OF FA	-----	N/A	
F026	C-0S6511	C-121-12029	E005	2083-06	5-10 S OF F2	5-3 W OF FA	-----	N/A	
F027	C-0S6511	C-121-12029	E005	2083-06	2-2 S OF F2	5-3 W OF FA	-----	VOID	SAME AS F047
F028	C-0S6511	C-121-12029	E005	2083-06	1-10 N OF F2	5-3 W OF FA	-----	VOID	SAME AS F045
F029	C-0S6511	C-121-12029	E005	2083-06	1-0 S OF F1	5-3 W OF FA	20911	F042/F043	
F030	C-0S6511	C-121-19029	E005	2083-06	11-3 N OF F4	5-3 E OF FD	-----	N/A	
F031	C-0S6511	C-121-19029	E005	2083-06	2-1 N OF F4	5-3 E OF FD	-----	F131	
F032	C-0S6005	C-121-19069	E007	2082-07	1-0 N OF F7	7-6 E OF FB	20859	F111/F112	
F033	C-0S6005	C-121-19069	E007	2073-02	1-0 N OF F1	2-0 W OF FC	20888	F113/F114	
F034	C-0S6005	C-121-19069	E007	2073-02	1-0 N OF F1	6-0 E OF FC	21353	F126/F127	
F035	C-0S6005	C-121-19069	E007	2073-02	16-6 N OF F1	2-0 W OF FC	-----	N/A	
F036	C-0S6005	C-121-19078	E010	2026-00	0-6 S OF F5	1-7 E OF FC	20882	F047	
F037	C-0S6005	C-121-19078	E010	2026-00	4-0 N OF F5	1-7 E OF FC	20883	F048	
F038	C-0S6005	C-121-19078	E010	2026-00	4-0 N OF F5	5-7 E OF FC	20883	F049	
F039	C-0S6005	C-121-19078	E010	2021-00	4-0 N OF F5	5-7 E OF FC	-----	N/A	
F040	C-0S6005	C-121-19078	E010	2057-06	13-6 S OF F4	1-0 W OF FA	-----	N/A	
F041	C-0S6005	C-121-19078	E010	2052-01	13-6 S OF F4	1-0 W OF FA	-----	N/A	
F042	C-0S6005	C-121-19078	E010	2057-06	2-0 S OF F4	1-0 W OF FA	20883	F050	
F043	C-0S6005	C-121-19078	E010	2052-01	2-0 S OF F4	1-0 W OF FA	-----	N/A	
F044	C-0S6311	C-121-19001	E002	2047-06	6-8 N OF F5	1-0 E OF FD	20893	F069/F070	
F045	C-0S6211	C-121-19027	E003	2026-00	F6	7-3 E OF FD	20848	F056/F057	
F046	C-0S6211	C-121-19027	E003	2026-00	1-0 S OF F5	7-3 E OF FD	-----	N/A	
F047	C-0S6211	C-121-19027	E003	2026-00	F6	13-5 E OF FD	20869	F058	
F048	C-0S6311	C-121-19001	E002	2047-06	6-8 S OF F4	1-0 E OF FD	-----	N/A	
F049	C-0S6211	C-121-19027	E003	2026-00	F6	15-6 W OF FC	-----	N/A	

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION		NCR	EVALUATION NO.
F050	C-056211	C-121-19027	E003	2026-00	1-6 S OF F5	15-6 W OF FC	-----	N/A
F051	C-056211	C-121-19027	E003	2026-00	1-0 S OF F5	FC	20848	F059
F052	C-056211	C-121-19027	E003	2026-00	7-4 N OF F5	3-0 W OF FC	-----	N/A
F053	C-056211	C-121-19027	E003	2026-00	6-4 S OF F4	3-0 W OF FC	-----	N/A
F054	C-056211	C-121-19027	E003	2026-00	F4	3-0 W OF FC	-----	N/A
F055	C-056211	C-121-19027	E003	2026-00	6-8 N OF F4	3-0 W OF FC	-----	N/A
F056	C-056211	C-121-19027	E003	2026-00	6-8 S OF F3	3-0 W OF FC	-----	N/A
F057	C-056211	C-121-19027	E003	2026-00	F3	3-0 W OF FC	-----	N/A
F058	C-056211	C-121-19027	E003	2026-00	6-8 N OF F3	3-0 W OF FC	-----	N/A
F059	C-056211	C-121-19027	E003	2026-00	6-8 S OF E2	3-0 W OF FC	-----	N/A
F060	C-056211	C-121-19027	E003	2026-00	F2	3-0 W OF FC	-----	N/A
F061	C-056211	C-121-19027	E003	2026-00	5-10 N OF F2	3-0 W OF FC	-----	N/A
F062	C-056211	C-121-19027	E003	2026-00	9-4 S OF F1	3-10 W OF FC	-----	N/A
F063	C-056211	C-121-19027	E003	2026-00	2-0 S OF F1	3-10 W OF FC	-----	N/A
F064	C-056311	C-121-19001	E002	2047-06	F4	4-0 E OF FD	20893	F071
F065	C-056311	C-121-19001	E002	2047-06	6-4 N OF F4	1-0 E OF FD	20893	F072/F073
F066	C-056311	C-121-19001	E002	2047-06	6-8 S OF F3	1-0 E OF FD	20893	F074
F067	C-056311	C-121-19001	E002	2047-06	F3	4-0 E OF FD	20893	F075/F076
F068	C-056311	C-121-19001	E002	2047-06	7-0 N OF F3	1-0 E OF FD	20893	F077/F078
F069	C-056311	C-121-19001	E002	2047-06	6-8 S OF F2	1-0 E OF FD	20893	F079/F080
F070	C-056311	C-121-19001	E002	2047-06	F2	4-0 E OF FD	20893	F081/F082
F071	C-056311	C-121-19001	E002	2047-06	7-0 N OF F2	1-0 E OF FD	20893	F083/F084
F072	C-056311	C-121-19001	E002	2047-06	2-0 S OF F1	1-0 E OF FD	20893	F085
F073	C-056311	C-121-19001	E002	2047-06	4-0 N OF F7	FC	-----	N/A
F074	C-056311	C-121-19001	E002	2047-06	1-0 S OF F5	FC	20893	F086
F075	C-056311	C-121-19001	E002	2047-06	6-8 N OF F5	3-0 W OF FC	20893	F087
F076	C-056311	C-121-19001	E002	2047-06	6-8 S OF F4	3-0 W OF FC	20893	F088
F077	C-056311	C-121-19001	E002	2047-06	F4	3-0 W OF FC	-----	N/A
F078	C-056311	C-121-19001	E002	2047-06	6-4 N OF F4	3-0 W OF FC	20893	F089
F079	C-056311	C-121-19001	E002	2047-06	6-8 S OF F3	3-0 W OF FC	-----	N/A
F080	C-056311	C-121-19001	E002	2047-06	F3	3-0 W OF FC	20893	F090
F081	C-056311	C-121-19001	E002	2047-06	7-0 N OF F3	3-0 W OF FC	20893	F091
F082	C-056311	C-121-19001	E002	2047-06	6-8 S OF F2	3-0 W OF FC	20893	F092
F083	C-056311	C-121-19001	E002	2047-06	F2	3-0 W OF FC	20893	F093
F084	C-056311	C-121-19001	E002	2047-06	7-0 N OF F2	3-0 W OF FC	20893	F094
F085	C-056311	C-121-19001	E002	2047-06	8-9 S OF F1	3-0 W OF FC	20893	F095
F086	C-056311	C-121-19001	E002	2047-06	2-0 S OF F1	3-0 W OF FC	20893	F096
F087	C-056311	C-121-19001	E002	2047-06	1-0 N OF F7	7-8 E OF FC	20893	F097
F088	C-056311	C-121-19001	E002	2047-06	1-0 N OF F7	7-0 W OF FB	20893	F098/F099/F100
F089	C-056311	C-121-19001	E002	2047-06	1-0 N OF F7	5-9 E OF FB	20893	F101/F102
F090	C-056311	C-121-19001	E002	2047-06	1-0 N OF F7	11-6 E OF FB	20893	F103/F104/F105
F091	C-056311	C-121-19001	E002	2047-06	1-0 N OF F7	6-6 W OF FA	20893	F106/F107/F125
F092	C-056311	C-121-19001	E002	2047-06	4-0 N OF F5	FB	20893	F108
F093	C-056311	C-121-19001	E002	2047-06	4-0 N OF F5	5-9 E OF FB	20893	F109
F094	C-056311	C-121-19001	E002	2047-06	4-0 N OF F5	11-6 E OF FB	20893	F110
F095	C-056311	C-121-19001	E002	2047-06	4-0 N OF F5	6-6 W OF FA	-----	N/A
F096	C-056312	C-131-05765	E004	2048-06	1-0 S OF F5	17-11 E OF FD	-----	N/A
F097	C-056312	C-131-05765	E004	2048-06	F6	25-0 E OF FD	21490	F143
F098	C-056312	C-131-05765	E004	2048-06	1-0 S OF F5	25-0 E OF FD	-----	N/A
F099	C-056411	C-121-19030	E006	2065-00	F3	4-0 E OF FD	20876	F044
F100	C-056411	C-121-19030	E006	2065-00	8-0 N OF F3	1-0 E OF FD	20876	F045

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON.	LOCATION		NCR	EVALUATION NO.
F101	C-056411	C-121-19030	E006	2065-00	4-0 S OF F2	1-0 E OF FD	-----	N/A
F102	C-056411	C-121-19030	E006	2065-00	4-2 N OF F2	1-0 E OF FD	-----	N/A
F103	C-056411	C-121-19030	E006	2065-00	10-2 S OF F1	1-0 E OF FD	20876	F046
F104	C-056411	C-121-19030	E006	2065-00	2-0 S OF F1	1-0 E OF FD	-----	N/A
F105	C-056511	C-121-19029	E005	2083-06	6-6 N OF F9	1-0 E OF FD	-----	N/A
F106	C-056511	C-121-19029	E005	2083-06	2-6 S OF F6	1-0 E OF FD	-----	N/A
F107	C-056511	C-121-19029	E005	2083-06	2-6 N OF F6	1-0 E OF FD	-----	N/A
F108	C-056511	C-121-19029	E005	2083-06	9-0 N OF F6	1-0 E OF FD	-----	N/A
F109	C-056511	C-121-19029	E005	2083-06	6-6 S OF F5	1-0 E OF FD	-----	N/A
F110	C-056511	C-121-19029	E005	2083-06	2-6 N OF F5	1-0 E OF FD	-----	N/A
F111	C-056511	C-121-19029	E005	2083-06	8-4 N OF F6	1-0 E OF FD	21104	F116
F112	C-056511	C-121-19029	E005	2083-06	5-10 S OF F4	1-0 E OF FD	-----	N/A
F113	C-056511	C-121-19029	E005	2083-06	2-6 N OF F4	1-0 E OF FD	-----	N/A
F114	C-056511	C-121-19029	E005	2083-06	8-4 N OF F4	1-0 E OF FD	-----	N/A
F115	C-056511	C-121-19029	E005	2083-06	5-10 S OF F3	1-0 E OF FD	-----	N/A
F116	C-056511	C-121-19029	E005	2083-06	2-6 N OF F3	1-0 E OF FD	-----	N/A
F117	C-056511	C-121-19029	E005	2083-06	8-4 N OF F3	1-0 E OF FD	20946	F124
F118	C-056511	C-121-19029	E005	2083-06	5-10 S OF F2	1-0 E OF FD	-----	N/A
F119	C-056511	C-121-19029	E005	2083-06	2-6 N OF F2	1-0 E OF FD	-----	N/A
F120	C-056511	C-121-19029	E005	2083-06	9-2 N OF F2	1-0 E OF FD	-----	N/A
F121	C-056511	C-121-19029	E005	2083-06	6-8 S OF F1	1-0 E OF FD	-----	N/A
F122	C-056511	C-121-19029	E005	2083-06	6-6 N OF F7	5-3 E OF FD	-----	N/A
F123	C-056511	C-121-19029	E005	2083-06	2-6 S OF F6	5-3 E OF FD	-----	N/A
F124	C-056511	C-121-19029	E005	2083-06	2-6 N OF F6	5-3 E OF FD	-----	N/A
F125	C-056511	C-121-19029	E005	2083-06	9-0 N OF F6	5-3 E OF FD	-----	N/A
F126	C-056511	C-121-19029	E005	2083-06	6-6 S OF F5	5-3 E OF FD	-----	N/A
F127	C-056511	C-121-19029	E005	2083-06	F5	5-3 E OF FD	-----	N/A
F128	C-056511	C-121-19029	E005	2083-06	2-6 N OF F5	5-3 E OF FD	-----	N/A
F129	C-056511	C-121-19029	E005	2083-06	8-4 N OF F5	5-3 E OF FD	-----	N/A
F130	C-056511	C-121-19029	E005	2083-06	5-10 S OF F4	5-3 E OF FD	-----	N/A
F131	C-056511	C-121-19029	E005	2083-06	F4	5-3 E OF FD	-----	N/A
F132	C-056511	C-121-19029	E005	2083-06	2-6 N OF F4	5-3 E OF FD	-----	N/A
F133	C-056511	C-121-19029	E005	2083-06	8-4 N OF F4	5-3 E OF FD	-----	N/A
F134	C-056511	C-121-19029	E005	2083-06	5-10 S OF F3	5-3 E OF FD	-----	N/A
F135	C-056511	C-121-19029	E005	2083-06	F3	5-3 E OF FD	-----	N/A
F136	C-056511	C-121-19029	E005	2083-06	2-6 N OF F3	5-3 E OF FD	-----	N/A
F137	C-056511	C-121-19029	E005	2083-06	8-4 N OF F3	5-3 E OF FD	-----	N/A
F138	C-056511	C-121-19029	E005	2083-06	5-10 S OF F2	5-3 E OF FD	-----	N/A
F139	C-056511	C-121-19029	E005	2083-06	F2	5-3 E OF FD	-----	N/A
F140	C-056511	C-121-19029	E005	2083-06	2-6 N OF F2	5-3 E OF FD	-----	N/A
F141	C-056511	C-121-19029	E005	2083-06	9-2 N OF F2	5-3 E OF FD	-----	N/A
F142	C-056511	C-121-19029	E005	2083-06	6-8 S OF F1	5-3 E OF FD	-----	N/A
F143	C-056511	C-121-19029	E005	2083-06	1-0 S OF F1	5-3 E OF FD	20946	F117/F118
F144	C-056511	C-121-19029	E005	2083-06	6-6 N OF F7	5-3 W OF FA	-----	N/A
F145	C-056511	C-121-19029	E005	2083-06	2-6 S OF F6	5-3 W OF FA	20946	F119
F146	C-056511	C-121-19029	E005	2083-06	2-6 N OF F6	5-3 W OF FA	-----	N/A
F147	C-056511	C-121-19029	E005	2083-06	9-0 N OF F6	5-3 W OF FA	-----	N/A
F148	C-056511	C-121-19029	E005	2083-06	6-6 S OF F5	5-3 W OF FA	-----	N/A
F149	C-056511	C-121-19029	E005	2083-06	F5	5-3 W OF FA	-----	N/A
F150	C-056511	C-121-19029	E005	2083-06	2-6 N OF F5	5-3 W OF FA	-----	N/A
F151	C-056511	C-121-19029	E005	2083-06	8-4 N OF F5	5-3 W OF FA	-----	N/A

STRUCTURAL JOINTS TRACKING

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION		NCR	EVALUATION NO.
F152	C-0S6511	C-121-19029	E005	2083-06	5-10 S OF F4	5-3 W OF FA	-----	N/A
F153	C-0S6511	C-121-19029	E005	2083-06	F4	5-3 W OF FA	-----	N/A
F154	C-0S6511	C-121-19029	E005	2083-06	2-6 N OF F4	5-3 W OF FA	20946	F120
F155	C-0S6511	C-121-19029	E005	2083-06	8-4 N OF F4	5-3 W OF FA	-----	N/A
F156	C-0S6511	C-121-19029	E005	2083-06	5-10 S OF F3	5-3 W OF FA	-----	N/A
F157	C-0S6511	C-121-19029	E005	2083-06	F3	5-3 W OF FA	-----	N/A
F158	C-0S6511	C-121-19029	E005	2083-06	2-6 N OF F3	5-3 W OF FA	-----	N/A
F159	C-0S6511	C-121-19029	E005	2083-06	8-4 N OF F3	5-3 W OF FA	-----	N/A
F160	C-0S6511	C-121-12029	E005	2083-06	F2	5-3 W OF FA	-----	N/A
F161	C-0S6511	C-121-12029	E005	2083-06	2-6 N OF F2	5-3 W OF FA	-----	N/A
F162	C-0S6511	C-121-12029	E005	2083-06	9-2 N OF F2	5-3 W OF FA	-----	N/A
F163	C-0S6511	C-121-12029	E005	2083-06	6-8 S OF F1	5-3 W OF FA	-----	N/A
F164	C-0S6511	C-121-12029	E005	2083-06	6-6 N OF F7	1-0 W OF FA	-----	N/A
F165	C-0S6511	C-121-12029	E005	2083-06	2-6 S OF F6	1-0 W OF FA	-----	N/A
F166	C-0S6511	C-121-12029	E005	2083-06	2-6 N OF F6	1-0 W OF FA	-----	N/A
F167	C-0S6511	C-121-12029	E005	2083-06	9-0 N OF F6	1-0 W OF FA	-----	N/A
F168	C-0S6511	C-121-12029	E005	2083-06	6-6 S OF F5	1-0 W OF FA	-----	VOID SAME AS F025
F169	C-0S6511	C-121-12029	E005	2083-06	2-6 N OF F5	1-0 W OF FA	-----	N/A
F170	C-0S6511	C-121-12029	E005	2083-06	8-4 N OF F5	1-0 W OF FA	20946	F121
F171	C-0S6511	C-121-12029	E005	2083-06	5-10 S OF F4	1-0 W OF FA	-----	N/A
F172	C-0S6511	C-121-12029	E005	2083-06	2-6 N OF F4	1-0 W OF FA	-----	N/A
F173	C-0S6511	C-121-12029	E005	2083-06	8-4 N OF F4	1-0 W OF FA	-----	N/A
F174	C-0S6511	C-121-12029	E005	2083-06	5-10 S OF F3	1-0 W OF FA	-----	N/A
F175	C-0S6511	C-121-12029	E005	2083-06	2-6 N OF F3	1-0 W OF FA	-----	N/A
F176	C-0S6511	C-121-12029	E005	2083-06	8-4 N OF F3	1-0 W OF FA	-----	N/A
F177	C-0S6511	C-121-12029	E005	2083-06	5-10 S OF F2	1-0 W OF FA	-----	N/A
F178	C-0S6511	C-121-12029	E005	2083-06	2-6 N OF F2	1-0 W OF FA	-----	N/A
F179	C-0S6511	C-121-12029	E005	2083-06	9-2 N OF F2	1-0 W OF FA	20946	F122
F180	C-0S6511	C-121-12029	E005	2083-06	6-8 S OF F1	1-0 W OF FA	20946	F123
F181	C-0S6312	C-131-05765	E004	2048-06	1-6 N OF F6	3-4 E OF FD	21490	F144
F182	C-0S6312	C-131-05765	E004	2048-06	5-0 S OF F5	1-0 E OF FD	-----	N/A
F183	C-0S6312	C-131-05765	E004	2048-06	1-0 S OF F5	4-6 E OF FD	21490	F145
F184	C-0S6312	C-131-05765	E004	2048-06	1-0 S OF F5	5-10 E OF FD	21490	F146
F185	C-0S6312	C-131-05765	E004	2048-06	1-0 S OF F5	8-4 E OF FD	21490	F147
F186	C-0S6312	C-131-05765	E004	2048-06	1-0 S OF F5	8-4 E OF FD	-----	N/A
F187	C-0S6312	C-131-05765	E004	2048-06	F6	8-4 E OF FD	-----	N/A
F188	C-0S6312	C-131-05765	E004	2048-06	F6	10-10 E OF FD	-----	N/A
F189	C-0S6312	C-131-05765	E004	2048-06	F6	17-11 E OF FD	-----	N/A
F190	C-0S6005	C-121-19069	E007	2082-07	3-0 N OF F7	1-6 E OF FB	-----	N/A
F191	C-0S6005	C-121-19069	E007	2082-07	1-0 N OF F7	2-6 E OF FB	-----	N/A
F192	C-0S6005	C-121-19069	E007	2070-00	1-0 N OF F7	4-3 E OF FB	-----	N/A
F193	C-0S6005	C-121-19069	E007	2067-00	1-0 N OF F7	4-3 E OF FB	-----	N/A
F194	C-0S6005	C-121-19069	E007	2070-00	1-0 N OF F7	10-6 E OF FB	-----	N/A
F195	C-0S6005	C-121-19069	E007	2067-00	1-0 N OF F7	10-6 E OF FB	-----	N/A
F196	C-0S6411	C-131-05813	E014	2047-06	1-3 S OF F1	0-11 E OF FC	-----	N/A
F197	C-0S6411	C-131-05813	E014	2047-06	6-8 N OF F5	0-11 E OF FC	-----	N/A
F198	C-0S6411	C-131-05813	E014	2047-06	6-8 N OF F5	9-2 W OF FA	-----	N/A
FA	C-0S6211	C-121-19027	E003	2026-00	1-0 S OF F5	13-5 E OF FD	20569	F007
FB	C-0S6211	C-121-19027	E003	2026-00	F3	4-0 E OF FB	20569	F008
FC	C-0S6311	C-121-19001	E002	2047-06	1-0 N OF F7	14-8 W OF FB	20569	F005/F006
FD	C-0S6311	C-121-19001	E002	2047-06	4-0 N OF F7	FB	20569	F003/F004

JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION		NCR	EVALUATION NO.	
FE	C-0S6311	C-121-19001	E002	2047-06	8-9 S OF F1	1-0 E OF FD	20569	F001/F002	
FF	C-0S6312	C-131-05765	E004	2048-06	1-0 S OF F5	10-10 E OF FD	20569	F009	
FG01	C-0S6511	C-121-19029	E005	2083-06	1 S OF F1	5-3 E OF FD	-----	N/A	
FG02	C-0S6511	C-121-19029	E005	2083-06	2 S OF F1	5-3 E OF FD	-----	N/A	
FG03	C-0S6511	C-121-19029	E005	2083-06	3 S OF F1	5-3 E OF FD	-----	N/A	
FG04	C-0S6511	C-121-19029	E005	2083-06	4 S OF F1	5-3 E OF FD	-----	N/A	
FG05	C-0S6511	C-121-19029	E005	2083-06	5 S OF F1	5-3 E OF FD	-----	N/A	
FG06	C-0S6511	C-121-19029	E005	2083-06	6 S OF F1	5-3 E OF FD	-----	N/A	
FG07	C-0S6511	C-121-19029	E005	2083-06	7 S OF F1	5-3 E OF FD	-----	N/A	
FG08	C-0S6511	C-121-19029	E005	2083-06	8 S OF F1	5-3 E OF FD	-----	N/A	
FG09	C-0S6511	C-121-19029	E005	2083-06	9 S OF F1	5-3 E OF FD	-----	N/A	
FG10	C-0S6511	C-121-19029	E005	2083-06	10 S OF F1	5-3 E OF FD	-----	N/A	
FG11	C-0S6511	C-121-19029	E005	2083-06	11 S OF F1	5-3 E OF FD	-----	N/A	
FG12	C-0S6511	C-121-19029	E005	2083-06	12 S OF F1	5-3 E OF FD	-----	N/A	
FG13	C-0S6511	C-121-19029	E005	2083-06	13 S OF F1	5-3 E OF FD	21398	F136	
FG14	C-0S6511	C-121-19029	E005	2083-06	14 S OF F1	5-3 E OF FD	-----	N/A	
FG15	C-0S6511	C-121-19029	E005	2083-06	15 S OF F1	5-3 E OF FD	-----	N/A	
FG16	C-0S6511	C-121-19029	E005	2083-06	16 S OF F1	5-3 E OF FD	-----	N/A	
FG17	C-0S6511	C-121-19029	E005	2083-06	17 S OF F1	5-3 E OF FD	21398	F137	
FG18	C-0S6511	C-121-19029	E005	2083-06	18 S OF F1	5-3 E OF FD	-----	N/A	
FG19	C-0S6511	C-121-19029	E005	2083-06	19 S OF F1	5-3 E OF FD	21270	F128	
FG20	C-0S6511	C-121-19029	E005	2083-06	20 S OF F1	5-3 E OF FD	21270	VOID	SAME AS F031
FG21	C-0S6511	C-121-19029	E005	2083-06	21 S OF F1	5-3 E OF FD	21270	F132	
FG22	C-0S6511	C-121-19029	E005	2083-06	22 S OF F1	5-3 E OF FD	21398	N/A	
FG23	C-0S6511	C-121-19029	E005	2083-06	23 S OF F1	5-3 E OF FD	-----	VOID	SAME AS F030
FG24	C-0S6511	C-121-19029	E005	2083-06	24 S OF F1	5-3 E OF FD	-----	N/A	
FG25	C-0S6511	C-121-19029	E005	2083-06	25 S OF F1	5-3 E OF FD	-----	N/A	
FG26	C-0S6511	C-121-19029	E005	2083-06	26 S OF F1	5-3 E OF FD	-----	N/A	
FG27	C-0S6511	C-121-19029	E005	2083-06	27 S OF F1	5-3 E OF FD	-----	N/A	
FG28	C-0S6511	C-121-19029	E005	2083-06	28 S OF F1	5-3 E OF FD	-----	N/A	
FG29	C-0S6511	C-121-19029	E005	2083-06	29 S OF F1	5-3 E OF FD	-----	N/A	
FG30	C-0S6511	C-121-19029	E005	2083-06	30 S OF F1	5-3 E OF FD	-----	N/A	
FG31	C-0S6511	C-121-19029	E005	2083-06	31 S OF F1	5-3 E OF FD	-----	N/A	
FG32	C-0S6511	C-121-19029	E005	2083-06	32 S OF F1	5-3 E OF FD	-----	N/A	
FG33	C-0S6511	C-121-19029	E005	2083-06	33 S OF F1	5-3 E OF FD	-----	N/A	
FG34	C-0S6511	C-121-19029	E005	2083-06	34 S OF F1	5-3 E OF FD	-----	N/A	
FG35	C-0S6511	C-121-19029	E005	2083-06	35 S OF F1	5-3 E OF FD	-----	N/A	
FG36	C-0S6511	C-121-19029	E005	2083-06	36 S OF F1	5-3 E OF FD	-----	N/A	
FG37	C-0S6511	C-121-19029	E005	2083-06	37 S OF F1	5-3 E OF FD	-----	N/A	
FG38	C-0S6511	C-121-19029	E005	2083-06	38 S OF F1	5-3 E OF FD	-----	N/A	
FG39	C-0S6511	C-121-19029	E005	2083-06	39 S OF F1	5-3 E OF FD	-----	N/A	
FG40	C-0S6511	C-121-19029	E005	2083-06	40 S OF F1	5-3 E OF FD	-----	N/A	
FG41	C-0S6511	C-121-19029	E005	2083-06	1 S OF F1	5-3 W OF FA	-----	N/A	
FG42	C-0S6511	C-121-19029	E005	2083-06	2 S OF F1	5-3 W OF FA	-----	N/A	
FG43	C-0S6511	C-121-19029	E005	2083-06	3 S OF F1	5-3 W OF FA	21270	F129	
FG44	C-0S6511	C-121-19029	E005	2083-06	4 S OF F1	5-3 W OF FA	21270	F130	
FG45	C-0S6511	C-121-19029	E005	2083-06	5 S OF F1	5-3 W OF FA	21270	F134	
FG46	C-0S6511	C-121-19029	E005	2083-06	6 S OF F1	5-3 W OF FA	21270	F133	
FG47	C-0S6511	C-121-19029	E005	2083-06	7 S OF F1	5-3 W OF FA	21270	F135	
FG48	C-0S6511	C-121-19029	E005	2083-06	8 S OF F1	5-3 W OF FA	-----	N/A	
FG49	C-0S6511	C-121-19029	E005	2083-06	9 S OF F1	5-3 W OF FA	-----	N/A	

JOINT	SECATEL DRAWING	ERECTION	DRAW	ELEVATION	LOCATION	NCR	EVALUATION NO.
F650	C-056511	C-121-19029	E005	2083-06	10 S OF F1 5-3 W OF FA	-----	N/A
F651	C-056511	C-121-19029	E005	2083-06	11 S OF F1 5-3 W OF FA	-----	N/A
F652	C-056511	C-121-19029	E005	2083-06	12 S OF F1 5-3 W OF FA	-----	N/A
F653	C-056511	C-121-19029	E005	2083-06	13 S OF F1 5-3 W OF FA	-----	N/A
F654	C-056511	C-121-19029	E005	2083-06	14 S OF F1 5-3 W OF FA	-----	N/A
F655	C-056511	C-121-19029	E005	2083-06	15 S OF F1 5-3 W OF FA	-----	N/A
F656	C-056511	C-121-19029	E005	2083-06	16 S OF F1 5-3 W OF FA	21398	F139
F657	C-056511	C-121-19029	E005	2083-06	17 S OF F1 5-3 W OF FA	21398	F140
F658	C-056511	C-121-19029	E005	2083-06	18 S OF F1 5-3 W OF FA	21398	F141
F659	C-056511	C-121-19029	E005	2083-06	19 S OF F1 5-3 W OF FA	-----	N/A
F660	C-056511	C-121-19029	E005	2083-06	20 S OF F1 5-3 W OF FA	-----	N/A
F661	C-056511	C-121-19029	E005	2083-06	21 S OF F1 5-3 W OF FA	-----	N/A
F662	C-056511	C-121-19029	E005	2083-06	22 S OF F1 5-3 W OF FA	-----	N/A
F663	C-056511	C-121-19029	E005	2083-06	23 S OF F1 5-3 W OF FA	-----	N/A
F664	C-056511	C-121-19029	E005	2083-06	24 S OF F1 5-3 W OF FA	-----	N/A
F665	C-056511	C-121-19029	E005	2083-06	25 S OF F1 5-3 W OF FA	-----	N/A
F666	C-056511	C-121-19029	E005	2083-06	26 S OF F1 5-3 W OF FA	-----	N/A
F667	C-056511	C-121-19029	E005	2083-06	27 S OF F1 5-3 W OF FA	-----	N/A
F668	C-056511	C-121-19029	E005	2083-06	28 S OF F1 5-3 W OF FA	-----	N/A
F669	C-056511	C-121-19029	E005	2083-06	29 S OF F1 5-3 W OF FA	-----	N/A
F670	C-056511	C-121-19029	E005	2083-06	30 S OF F1 5-3 W OF FA	-----	N/A
F671	C-056511	C-121-19029	E005	2083-06	31 S OF F1 5-3 W OF FA	-----	N/A
F672	C-056511	C-121-19029	E005	2083-06	32 S OF F1 5-3 W OF FA	-----	N/A
F673	C-056511	C-121-19029	E005	2083-06	33 S OF F1 5-3 W OF FA	-----	N/A
F674	C-056511	C-121-19029	E005	2083-06	34 S OF F1 5-3 W OF FA	-----	N/A
F675	C-056511	C-121-19029	E005	2083-06	35 S OF F1 5-3 W OF FA	-----	N/A
F676	C-056511	C-121-19029	E005	2083-06	36 S OF F1 5-3 W OF FA	-----	N/A
F677	C-056511	C-121-19029	E005	2083-06	37 S OF F1 5-3 W OF FA	-----	N/A
F678	C-056511	C-121-19029	E005	2083-06	38 S OF F1 5-3 W OF FA	-----	N/A
F679	C-056511	C-121-19029	E005	2083-06	39 S OF F1 5-3 W OF FA	-----	N/A

..... END REPORT .....

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STRUCTURAL JOINTS TRACKING

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JOINT	BECHTEL DRAWING	ERECTION	DRAW	ELEVATON	LOCATION	NCR	EVALUATION NO.
P001	C-KS301	C-131-05381	E4	2000-00		20989	P001
P002	C-KS301	C-131-05381	E4	2000-00		------	N/A
P003	C-KS301	C-131-05381	E4	2000-00		------	N/A
P004	C-KS301	C-131-05381	E4	2000-00		------	N/A
P005	C-KS301	C-131-05381	E4	2000-00		------	N/A
P006	C-KS301	C-131-05381	E4	2000-00		20990	P002
P007	C-KS301	C-131-05381	E4	2000-00		20989	P003
P008	C-KS301	C-131-05381	E4	2000-00		20989	P004
P009	C-KS301	C-131-05381	E4	2000-00		------	N/A
P010	C-KS301	C-131-05381	E4	2000-00		------	N/A
P011	C-KS301	C-131-05381	E4	2000-00		------	N/A
P012	C-KS301	C-131-05381	E4	2000-00		20989	P005
P013	C-KS301	C-131-05412	E201	2000-00		20987	P006
P014	C-KS301	C-131-05412	E201	2000-00		20987	P007
P015	C-KS301	C-131-05412	E201	2000-00		20987	P008
P016	C-KS301	C-131-05412	E201	2000-00		20988	P009
P017	C-KS301	C-131-05381	E4	2000-00		21341	P010
P018	C-KS301	C-131-05381	E4	2000-00		21341	P011
P019	C-KS301	C-131-05381	E4	2000-00		21341	P012
P020	C-KS301	C-131-05381	E4	2000-00		21341	P013
P021	C-KS301	C-131-05412	E201	2000-00		21340	P014
P022	C-KS301	C-131-05412	E201	2000-00		21340	P015
P023	C-KS301	C-131-05382	E5	2009-00		21339	P016
P024	C-KS301	C-131-05382	E5	2005-08		21339	P017/P018
P025	C-KS301	C-131-05382	E5	2009-00		21339	P019
P026	C-KS301	C-131-05382	E5	2005-08		21339	P020
P027	C-KS301	C-131-05382	E5	2009-00		21339	P021
P028	C-KS301	C-131-05382	E5	2005-08		21339	P022
P029	C-KS301	C-131-05382	E5	2009-00		21339	P023
P030	C-KS301	C-131-05382	E5	2005-08		21339	P024
PA	C-KS301	C-131-05381	E4	2000-00		------	N/A
PB	C-KS301	C-131-05381	E4	2000-00		------	N/A
PC	C-KS301	C-131-05381	E4	2000-00		------	N/A
PD	C-KS301	C-131-05381	E4	2000-00		------	N/A
PE	C-KS301	C-131-05412	E201	2000-00		------	N/A
PF	C-KS301	C-131-05412	E201	2000-00		------	N/A

..... END REPORT .....

.DATE 20 DEC 84 16:53:47 RID 6 11 DEC 84 BECHTEL

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* BUILDING . BECHTEL ID . VENDOR ID . AWS WELDING REPORT
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BUILDING		BECHTEL ID	VENDOR ID
AUXILIARY	*	C-121-00007	K6720-0-E301
AUXILIARY		C-121-00010	K6720-0-E001
AUXILIARY		C-121-00011	K6720-0-E003
AUXILIARY	*	C-121-00034	K6720-0-E103
AUXILIARY		C-121-00037	K6720-0-E108
AUXILIARY		C-121-00110	K6720-0-E109
AUXILIARY	*	C-121-00127	K6720-0-E111
AUXILIARY	*	C-121-00128	K6720-0-E112
AUXILIARY	*	C-121-00130	K6720-0-E203
AUXILIARY	*	C-121-00165	K6720-0-E205
AUXILIARY	*	C-121-00274	K6720-0-E403
AUXILIARY		C-121-00494	K6720-0-E1111
AUXILIARY		C-121-00495	K6720-0-E1121
AUXILIARY		C-121-00496	K6720-0-E1131
AUXILIARY		C-121-00497	K6720-0-E1141
AUXILIARY		C-121-00498	K6720-0-E1151
AUXILIARY		C-121-00549	K6720-0-E302
AUXILIARY		C-121-00581	K6710-0-E107
AUXILIARY	*	C-121-00617	K6710-0-E206
AUXILIARY		C-121-00621	K6710-0-E209
AUXILIARY	*	C-121-00627	K6710-0-E402
AUXILIARY	*	C-121-00629	K6710-0-E502
AUXILIARY		C-121-00682	K6710-0-E405
AUXILIARY		C-121-00686	K6710-0-E503
AUXILIARY		C-121-00878	K6710-1-FW301
AUXILIARY		C-121-00880	K6720-0-E303
AUXILIARY		C-121-00881	K6720-0-E304
AUXILIARY		C-121-00883	K6720-0-E307
AUXILIARY	*	C-121-00912	K6710-1-E401
AUXILIARY		C-121-00913	K6720-0-E701
AUXILIARY		C-121-00933	K6720-0-E703
AUXILIARY	*	C-121-00934	K6720-0-E704
AUXILIARY	*	C-121-00961	K6710-1-FW812
AUXILIARY	*	C-121-00962	K6710-1-FW813
AUXILIARY		C-121-00963	K6710-1-FW814
AUXILIARY		C-121-00969	K6710-1-E101
AUXILIARY		C-121-00970	K6710-1-E102
AUXILIARY	*	C-121-00971	K6710-1-E105
AUXILIARY	*	C-121-00973	K6710-1-E201
AUXILIARY	*	C-121-00976	K6710-1-E202
AUXILIARY	*	C-121-00978	K6710-1-E208
AUXILIARY	*	C-121-00980	K6710-1-E211
AUXILIARY		C-121-00982	K6710-1-E504
AUXILIARY	*	C-121-01549	K6710-1-E302
AUXILIARY	*	C-121-01561	K6710-1-FW815
AUXILIARY		C-121-01562	K6710-1-FW816
AUXILIARY		C-121-01563	K6710-1-FW817
AUXILIARY		C-121-01568	K6720-0-E808
AUXILIARY		C-121-01619	K6710-1-FW818

* Structurally significant joints identified on drawing with asterisk.

BUILDING		BECHTEL ID	VENDOR ID
AUXILIARY		C-121-01620	K6710-1-FW819
AUXILIARY	*	C-121-01621	K6710-1-FW820
AUXILIARY	*	C-121-01622	K6710-1-FW821
AUXILIARY	*	C-121-01634	K6710-1-E104
AUXILIARY	*	C-121-01635	K6710-1-E204
AUXILIARY	*	C-121-01636	K6710-1-E501
AUXILIARY		C-121-01681	K6710-1-FW822
AUXILIARY	*	C-121-01683	K6720-0-E809
AUXILIARY	*	C-121-01685	K6710-1-E301
AUXILIARY		C-121-01691	K6710-1-FW823
AUXILIARY		C-121-01692	K6710-1-FW829
AUXILIARY	*	C-121-01700	K6710-1-E106
AUXILIARY		C-121-01701	K6710-1-E302
AUXILIARY	*	C-121-01773	K6710-1-FW824
AUXILIARY	*	C-121-01776	K6710-1-FW825
AUXILIARY		C-121-01779	K6710-1-FW826
AUXILIARY	*	C-121-01780	K6710-1-FW827
AUXILIARY		C-121-01783	K6710-1-FW830
AUXILIARY	*	C-121-01786	K6710-1-E207
AUXILIARY	*	C-121-01789	K6710-1-E210
AUXILIARY	*	C-121-01790	K6720-0-E811
AUXILIARY		C-121-01818	K6720-0-E812
AUXILIARY		C-121-01824	K6710-1-E306
AUXILIARY	*	C-121-01871	K6710-1-E110
AUXILIARY		C-121-01874	K6710-1-FW837
AUXILIARY	*	C-121-01883	K6710-1-FW838
AUXILIARY	*	C-121-01884	K6720X1-0-E601
AUXILIARY	*	C-121-01885	K6720X1-0-E602
AUXILIARY	*	C-121-01886	K6720X1-0-FW1
AUXILIARY	*	C-121-01887	K6720X1-0-FW2
AUXILIARY	*	C-121-01929	K6710-1-E404
AUXILIARY		C-121-01939	K6720X1-0-FW3
AUXILIARY		C-121-01940	K6720X1-0-FW4
AUXILIARY	*	C-121-01945	K6720-0-FW839
AUXILIARY		C-121-01947	K6720-0-E004
AUXILIARY	*	C-121-01976	K6710-1-FW841
AUXILIARY		C-121-01980	K6720X4-0-FW12
AUXILIARY		C-121-10356	K6710-1-FW832
AUXILIARY	*	C-121-10639	K6710-1-FW833
AUXILIARY		C-121-10645	K6710-1-FW831
AUXILIARY	*	C-121-10657	K6710-1-FW834
AUXILIARY	*	C-121-10675	K6710-1-E702
AUXILIARY		C-121-10725	K6710-0-E002
AUXILIARY		C-121-10728	K6710-1-FW835
AUXILIARY	*	C-121-10731	K6710-1-E705
AUXILIARY		C-121-10739	K6710-1-FW836
AUXILIARY		C-121-12007	K6720-0-FW840
AUXILIARY		C-121-12010	K6720-0-FW101
AUXILIARY		C-121-12019	K6720X2-0-FW1
AUXILIARY	*	C-121-12026	K6720X3-0-E706
AUXILIARY	*	C-121-12027	K6720X3-0-E707

BUILDING		BECHTEL ID	VENDOR ID
AUXILIARY		C-121-12043	K6720X3-0-E708
AUXILIARY		C-131-05412	M-412A-E201
AUXILIARY		C-131-05413	M-412A-E202
AUXILIARY		C-131-05482	M-312B-E104
AUXILIARY		C-131-05579	M-312B-E106
AUXILIARY		C-131-05725	M-312B-E109
AUXILIARY		C-131-05780	M-E1
AUXILIARY	*	C-131-05794	58-E1
AUXILIARY	*	C-131-05798	31-E2
AUXILIARY	*	C-131-05799	31-E3

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BUILDING		BECHTEL ID	VENDOR ID
REACTOR	*	C-0X2901	
REACTOR	*	C-0X2902	
REACTOR		C-0X2903	
REACTOR	*	C-0X2904	
REACTOR	*	C-0X2905	
REACTOR		C-0X2906	
REACTOR		C-0X2907	
REACTOR		C-0X2908	
REACTOR		C-0X2909	
REACTOR		C-0X2910	
REACTOR		C-0X2911	
REACTOR	*	C-0X2912	
REACTOR		C-0X2913	
REACTOR	*	C-0X2914	
REACTOR		C-0X2915	
REACTOR		C-0X2916	
REACTOR	*	C-0X2917	
REACTOR		C-0X2918	
REACTOR		C-0X2919	
REACTOR		C-0X2920	
REACTOR		C-0X2921	
REACTOR		C-0X2922	
REACTOR		C-0X2923	
REACTOR		C-0X2924	
REACTOR	*	C-1X2925	
REACTOR		C-1X2950	
REACTOR		C-0X8902	
REACTOR		C-0X8903	
REACTOR		C-0X8904	
REACTOR		C-0X8905	
REACTOR		C-0X8906	
REACTOR		C-0X8907	
REACTOR		C-121-08081	K6724-0-E115
REACTOR		C-121-08082	K6724-0-E112
REACTOR		C-121-08083	K6724-0-E113
REACTOR		C-121-08122	K6724-0-E116
REACTOR		C-121-08302	K6724-0-E119
REACTOR	*	C-121-08355	K6724-0-E122
REACTOR	*	C-121-08360	K6724-0-E117
REACTOR	*	C-121-08361	K6724-0-E121
REACTOR	*	C-121-08362	K6724-0-E123
REACTOR	*	C-121-08367	K6724-0-E120
REACTOR		C-121-08379	K6724-0-E105A
REACTOR	*	C-121-08504	K6714-0-E101
REACTOR	*	C-121-08506	K6714-0-E102
REACTOR	*	C-121-08510	K6714-0-E104
REACTOR	*	C-121-08523	K6714-0-E111
REACTOR	*	C-121-08543	K6724-0-E124
REACTOR	*	C-121-08549	K6724-0-E601

BUILDING		BECHTEL ID	VENDOR ID
REACTOR		C-121-08562	K6724-0-E106A
REACTOR		C-121-08572	K6714-0-E114
REACTOR	*	C-121-08576	K6714-0-E108
REACTOR	*	C-121-08577	K6714-0-E106
REACTOR		C-121-08621	K6714-0-E118
REACTOR	*	C-121-08625	K6714-0-E110
REACTOR		C-121-08741	K6714-1-FW602
REACTOR	*	C-121-08752	K6724-0-E602
REACTOR	*	C-121-08753	K6724-0-E603
REACTOR	*	C-121-08772	K6724-0-E608
REACTOR	*	C-121-08773	K6724-0-E609
REACTOR	*	C-121-08786	K6724-0-E604
REACTOR	*	C-121-08787	K6724-0-E605
REACTOR		C-121-08815	K6724X2-0-FW401
REACTOR	*	C-121-08846	K6724-0-E606
REACTOR		C-121-08847	K6724-0-E607
REACTOR		C-121-08896	K6714-1-FW200
REACTOR		C-121-08897	K6714-1-FW204
REACTOR	*	C-121-08909	K6714-1-E105
REACTOR	*	C-121-08912	K6714-1-E107
REACTOR	*	C-121-08950	K6724-0-E501
REACTOR	*	C-121-08982	K6724X5-0-E610
REACTOR		C-121-08997	K6724X2-0-FW2
REACTOR	*	C-121-08999	K6724X2-0-FW1
REACTOR	*	C-121-13001	K6714-1-E103
REACTOR	*	C-121-13017	K6724-0-FW205
REACTOR		C-121-13052	K6724X6-0-E126
REACTOR		C-121-13060	K6724X6-0-FW1
REACTOR	*	C-121-13069	K6724X2-0-E125
REACTOR		C-121-13070	K6724X2-0-FW3
REACTOR	*	C-121-13093	K6714-1-E109
REACTOR	*	C-121-13098	K6724X7-0-FW301
REACTOR	*	C-121-13099	K6724X7-0-FW302
REACTOR		C-121-13119	K6724X7-0-FW303
REACTOR		C-121-13120	K6724X7-0-FW101
REACTOR		C-121-13241	K6724X9-0-FW11
REACTOR		C-121-13242	K6724X9-0-E611
REACTOR	*	C-121-13258	K6724X11-0-FW14
REACTOR		C-121-13259	K6724X11-0-FW15
REACTOR	*	C-121-13265	K6724X11-0-FW13
REACTOR		C-121-19096	K6724X10-0-FW12
REACTOR		C-131-05649	M-36-E1
REACTOR		C-131-05650	M-36-E2
REACTOR		C-131-05651	M-36-E3
REACTOR		C-131-05652	M-36-E4
REACTOR	*	C-131-05666	E1
REACTOR		C-131-05671	E2
REACTOR		C-131-05672	E3
REACTOR		C-131-05712	M-36-E5
REACTOR		C-131-05732	M-24-E1
REACTOR	*	C-131-05734	M-36-E6

BUILDING	BECHTEL ID	VENDOR ID	AWS WELDING REPORT APPENDIX B. PAGE 6
REACTOR	* C-131-05743	E12	
REACTOR	* C-131-05759	E13	
REACTOR	* C-131-05800	31-E4	
REACTOR	C-131-05809	M-19-E2	

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BUILDING		BECHTEL ID	VENDOR ID
CONTROL		C-121-01053	K6721-0-E10
CONTROL		C-121-01272	K6721-0-E11
CONTROL		C-121-01311	K6711-1-FW24
CONTROL		C-121-01312	K6711-1-FW25
CONTROL		C-121-01313	K6711-1-FW26
CONTROL		C-121-01314	K6711-1-FW27
CONTROL		C-121-01315	K6711-1-FW28
CONTROL		C-121-01316	K6711-1-FW44
CONTROL		C-121-01317	K6711-1-FW45
CONTROL		C-121-01318	K6711-1-FW46
CONTROL		C-121-01319	K6711-1-FW47
CONTROL		C-121-01320	K6711-1-FW49
CONTROL		C-121-01321	K6711-1-FW52
CONTROL		C-121-01322	K6711-1-FW53
CONTROL		C-121-01323	K6711-1-FW54
CONTROL		C-121-01324	K6711-1-FW55
CONTROL		C-121-01325	K6711-1-FW56
CONTROL		C-121-01326	K6711-1-FW57
CONTROL		C-121-01327	K6711-1-FW58
CONTROL		C-121-01328	K6711-1-FW59
CONTROL		C-121-01329	K6711-1-FW60
CONTROL		C-121-01330	K6711-1-FW62
CONTROL		C-121-01331	K6711-1-FW63
CONTROL		C-121-01332	K6711-1-FW65
CONTROL		C-121-01333	K6711-1-FW66
CONTROL		C-121-01334	K6711-1-FW77
CONTROL	*	C-121-01408	K6711-1-E2
CONTROL	*	C-121-01411	K6711-1-E3
CONTROL	*	C-121-01414	K6711-1-E4
CONTROL	*	C-121-01417	K6711-1-E5
CONTROL	*	C-121-01420	K6711-1-E6
CONTROL	*	C-121-01426	K6711-1-E1
CONTROL		C-121-01428	K6711-1-FW17
CONTROL		C-121-01430	K6711-1-FW19
CONTROL		C-121-01434	K6711-1-E9
CONTROL	*	C-121-01484	K6711X1-1-E12
CONTROL	*	C-121-01485	K6711X1-1-E13
CONTROL	*	C-121-09015	K6711-1-E7
CONTROL		C-121-09023	K6711-1-E8
CONTROL	*	C-131-05505	4B-E7
CONTROL		C-131-05684	M-12B-E107

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BUILDING	BECHTEL ID	VENDOR ID
DIESEL GEN.	C-121-08387	K6726-0-E1
DIESEL GEN.	C-121-08391	K6726-0-E5
DIESEL GEN. *	C-121-08831	K6716-1-E3
DIESEL GEN. *	C-121-08840	K6726X2-0-E8
DIESEL GEN. *	C-121-08861	K6716X3-0-E9
DIESEL GEN. *	C-121-08899	K6726X1-0-E6
DIESEL GEN. *	C-121-08900	K6726X1-0-E7
DIESEL GEN. *	C-121-08958	K6716-1-E2
DIESEL GEN.	C-121-08959	K6716-1-FW1
DIESEL GEN. *	C-121-13249	K6716-1-E4

. AWS WELDING REPORT
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BUILDING	BECHTEL ID	VENDOR ID	AWS WELDING REPORT APPENDIX B. PAGE 9
FUEL	* C-121-05765	E4	
FUEL	* C-121-05813	E14	
FUEL	C-121-05821	M-19-E3	
FUEL	C-121-19028	K6728-0-E4	
FUEL	* C-121-19029	K6728-0-E5	
FUEL	* C-121-19030	K6728-0-E6	
FUEL	C-121-19032	K6728-0-E8	
FUEL	C-121-19066	K6728X2-0-E10	
FUEL	* C-121-19078	K6728X4-0-E10	
FUEL	C-131-19000	K6728-0-E1	
FUEL	* C-131-19001	K6728-0-E2	
FUEL	* C-131-19027	K6728-0-E3	
FUEL	* C-131-19069	K6718-1-E7	

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* FIELD FABRICATION REQUEST

AWS WELDING REPORT
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* BUILDING	NUMBER	DATE
REACTOR	RB0046	11-26-79
AUXILIARY	0556	11-03-82
REACTOR	RB0135	01-24-80
AUXILIARY	0030	02-14-79
AUXILIARY	0504	08-04-82
AUXILIARY	0503	08-04-82
AUXILIARY	0506	08-04-82
REACTOR	RB0006	09-18-79
REACTOR	RB1037	08-03-83
	0420	11-11-81
FUEL	F0073	01-18-82
REACTOR	RB0437	02-23-81
REACTOR	RB0671	04-27-82
REACTOR	RB0464	04-07-81
REACTOR	RB1019	07-13-83
FUEL	F0114	03-20-84
FUEL	F0091	11-10-82
REACTOR	RB0919	03-14-83
REACTOR	RB0717	07-13-82
REACTOR	RB1779	10-12-84
REACTOR		04-22-78
REACTOR	RB0842	11-18-82
REACTOR	RB0153	02-07-80
REACTOR	RB1351	02-06-84
REACTOR	RB0437	02-23-81
REACTOR	RB0360	11-18-80
REACTOR	RB0065	12-20-79
REACTOR	RB0135	01-24-80
ESWS	0012	02-25-82
DIESEL	D0017	02-26-79
	0010	06-03-80
FUEL	F0014	08-19-80
REACTOR	RB0065	12-20-79
REACTOR	RB0391	12-23-80
REACTOR	RB0623	02-24-82
REACTOR	RB0376	12-08-80
REACTOR	RB0360	11-18-80
AUXILIARY		08-10-78
AUXILIARY	N/A	08-15-78
AUXILIARY	0023	12-13-78
RADWASTE	RW0037	02-24-81
FUEL	F0020	10-27-80
FUEL	F0050	03-04-81
AUXILIARY	0697	10-03-83
AUXILIARY	0823	05-19-84
	0791	04-23-84
AUXILIARY	0901	08-24-84
ESWS	0029	09-17-84
DIESEL	0798	05-01-84

FIELD FABRICATION REQUEST

BUILDING	NUMBER	DATE
ESWS	0031	09-23-84
ESWS	0028	09-17-84
ESWS	0030	09-17-84
REACTOR	RB0431	02-16-84
AUXILIARY	0451	02-15-82
AUXILIARY	0452	02-23-82
REACTOR	RB1133	11-22-83
CONTROL	0899	08-21-84
REACTOR	RB1112	11-14-83
REACTOR	RB1073	09-13-83
REACTOR	RB0928	03-31-83
REACTOR	RB0925	04-28-83
REACTOR	RB0853	01-25-83
REACTOR	RB0853	03-01-83
AUXILIARY	0646	05-26-83
FUEL	F0099	05-09-83
REACTOR	RB0970	05-04-83
REACTOR	RB0965	04-28-83
REACTOR	RB0952	04-18-83
REACTOR	RB0951	04-18-83
REACTOR	RB0941	04-13-83
REACTOR	RB0937	04-11-83
AUXILIARY	0630	03-30-83
REACTOR	RB0906	03-07-83
REACTOR	RB0900	02-28-83
REACTOR	RB0888	02-10-83
REACTOR	RB0894	02-16-83
AUXILIARY	0645	05-24-83
REACTOR	RB0982	05-17-83
REACTOR	RB0978	05-12-83
TURBINE	0491	06-03-82
AUXILIARY	0493	06-16-82
CONTROL	0493	06-16-82
REACTOR	RB0695	06-07-82
REACTOR	RB0716	07-09-82
RADWASTE	RW0042	07-15-82
REACTOR	RB0723	07-19-82
REACTOR	RB0721	07-19-82
REACTOR	RB0725	07-21-82
REACTOR	RB0729	07-29-82
AUXILIARY	0500	08-02-82
FUEL	F0109	11-14-83
AUXILIARY	0700	10-10-83
REACTOR	RB1086	09-28-83
AUXILIARY	0703	10-17-83
REACTOR	RB1058	08-25-83
REACTOR	RB0875	01-26-83
REACTOR	RB1061	08-29-83
REACTOR	RB1036	08-03-83
REACTOR	RB1034	08-03-83
AUXILIARY	0670	07-29-83

FIELD FABRICATION REQUEST

BUILDING	NUMBER	DATE
	0487	05-13-82
AUXILIARY	0437	01-20-82
AUXILIARY	0436	01-20-82
REACTOR	RB0606	01-27-82
REACTOR	RB0617	02-10-82
AUXILIARY	0471	04-14-82
AUXILIARY	0472	04-14-82
REACTOR	RB0654	04-12-82
REACTOR	RB0646	08-30-82
REACTOR	RB0637	03-23-82
REACTOR	RB0639	03-23-82
REACTOR	RB0638	03-23-82
AUXILIARY	0458	02-25-82
AUXILIARY	0457	02-24-82
REACTOR	RB0620	02-17-82
FUEL	R0031	04-22-82
REACTOR	RB0676	05-04-82
RADWASTE	RW0003	03-27-79
REACTOR	R0005	10-24-78
REACTOR	R0001	09-07-78
REACTOR	R0002	09-07-78
REACTOR	RB0601	01-18-82
REACTOR	RB0602	01-19-83
AUXILIARY	0046	05-14-79
REACTOR	RB0618	02-16-82
REACTOR	RB0619	02-17-82
FUEL	F0076	03-04-82
REACTOR	RB0628	03-01-82
REACTOR	RB0616	02-10-82
FUEL	F0069	10-19-81
	0409	09-28-81
REACTOR	RB0498	06-16-81
REACTOR	RB0482	05-21-81
REACTOR	RB0466	05-04-81
RADWASTE	RW0038	04-01-81
REACTOR	RB0446	03-10-81
REACTOR	RB0446	03-03-81
REACTOR	RB0427	02-10-81
FUEL	F0045	02-09-81
REACTOR	RB0377	12-09-80
REACTOR	RB0366	11-24-80
REACTOR	RB0367	11-24-80
REACTOR	RB0335	10-27-80
REACTOR	RB0337	10-29-80
AUXILIARY	0119	12-26-79
REACTOR	RB0371	12-02-80
REACTOR	RB0370	12-02-80
REACTOR	RB0373	12-03-80
REACTOR	RB0022	10-16-79
REACTOR	RB0020	10-10-79
REACTOR	RB0573	11-04-81

FIELD FABRICATION REQUEST — AWS WELDING REPORT
APPENDIX C, PAGE 4

BUILDING	NUMBER	DATE
REACTPR	RB0562	10-26-81
REACTOR	RB0798	09-30-82
REACTOR	RB0792	10-04-82
REACTOR	RB0795	10-05-82
CONTROL	0550	10-14-82
REACTOR	RB0803	10-15-82
REACTOR	RB0789	09-23-82
	0536	09-21-82
AUXILIARY	0513	09-08-82
	0022	08-23-82
REACTOR	RB0745	08-11-82
FUEL	F0090	11-02-82
REACTOR	R0003	10-03-78
REACTOR	RB1414	04-17-84
AUXILIARY	0665	07-12-83
AUXILIARY	0667	07-18-83
ESWS	0004	01-20-82
CORRIDOR	0673	08-09-83
AUXILIARY	0442	02-02-82
REACTOR	RB0509	06-29-81
AUXILIARY	0384	05-12-81
FUEL	F0043	02-02-81
FUEL	F0042	01-29-81
CONTROL	0320	01-29-81
CONTROL	0289	10-22-80
CONTROL	0288	10-21-80
	0280	10-13-80
CONTROL	0260	09-16-80
AUXILIARY	0257	09-10-80
REACTOR	RB0318	09-10-80
FUEL	F0016	09-03-80
CONTROL	0239	08-05-80
	0139	02-07-80
AUXILIARY	0122	01-09-80
	0097	10-25-79
DIESEL	0094	10-10-79
AUXILIARY	0066	08-04-79
AUXILIARY	0053	06-25-79
	0051	06-11-79
	0025	12-04-78
	0012	09-14-78
AUXILIARY	A0082	06-29-82
CONTROL	C0056	07-12-83
REACTOR	RB0822	04-25-83
REACTOR	RB0822	03-23-83
REACTOR	RB0929	03-31-83
REACTOR	RB0821	01-31-83
REACTOR	RB0853	02-03-83
REACTOR	RB0924	03-17-83
REACTOR	RB0821	01-31-83
REACTOR	RB0924	09-07-83

FIELD FABRICATION REQUEST

BUILDING	NUMBER	DATE
REACTOR	RB0924	09-06-83
AUXILIARY	A0153	08-11-83
REACTOR	RB1133	11-22-83
REACTOR	RB0742	08-11-82
	B0018	06-28-82
	0450	02-15-82
	0013	10-05-78
DIESEL	D0322	08-06-79
FUEL	F0068	10-01-81
REACTOR	RB0822	11-18-82
REACTOR	RB0822	12-02-82
REACTOR	1374	04-11-84
REACTOR	RB0244	05-05-80
REACTOR	RB0853	01-13-83
REACTOR	RB1619	06-01-84
AUXILIARY	A0169	06-25-84
DIESEL	0155	03-03-80
DIESEL	0144	02-19-80
FUEL	F0093	11-29-82
REACTOR	RB0089	01-03-80
FUEL	F0019	10-20-80
FUEL	F0015	09-02-80
FUEL	F0013	08-05-80
FUEL	F0010	07-23-80
SITE	RVH0002	12-21-81
REACTOR	RB0271	06-10-80
REACTOR	RB0272	06-10-80
REACTOR	RB0923	03-17-83
AUXILIARY	0555	11-03-82
AUXILIARY	0557	11-04-82
AUXILIARY	0559	11-08-82
AUXILIARY	0560	11-11-82
AUXILIARY	0565	12-02-82
REACTOR	RB0583	12-01-81
AUXILIARY	0584	01-10-83
AUXILIARY	0585	01-10-83
AUXILIARY	0593	01-17-83
AUXILIARY	0744	01-30-84
REACTOR	RB0857	12-21-82
REACTOR	RB1312	03-22-84
REACTOR	RB1652	06-08-84
REACTOR	RB1671	06-12-84
REACTOR	RB1726	06-23-84
REACTOR	RB1739	07-07-84
REACTOR	RB0209	04-03-80
REACTOR	RB0191	03-24-80
REACTOR	RB0178	03-13-80
REACTOR	RB1259	02-15-84
RADWASTE	RW0044	05-10-84
ESWS	0032	10-02-84
REACTOR	RB0227	04-22-80

FIELD FABRICATION REQUEST

BUILDING	NUMBER	DATE
REACTOR	RB0510	06-30-81
AUXILIARY	0104	11-29-79
	0079	08-22-79
	0078	08-22-79
	0069	08-09-79
	0170	03-24-80
AUXILIARY		
	0010	08-15-78
	0011	08-15-78

..... END REPORT .....

LIST OF NONCONFORMANCE REPORTS

1-041-C
1-042-C
1-043-C
1-045-C
1-047-C
1-048-C
1-049-C
1-074-C
1-082-C
1-083-C
1-084-C
1-085-C
1-086-C
1-087-C
1-090-C
1-094-C
1-095-C
1-096-C
1-0104-C
1-0123-C
1-0124-C
1-0128-C
1-0136-C
1-0139-C
1-0143-C
1-0148-C
1-0149-C
1-0158-C
1-0160-C
1-0166-C
1-0170-C
1-0178-C
1-0183-C
1-0189-C
1-0205-C
1-0238-C
1-0244-C
1-0255-C
1-0266-C
1-0276-C
1-0277-C
1-0335-C
1-0338-C
1-0339-C
1-0340-C
1-0345-C
1-0355-C
1-0385-C
1-0423-C
1-0433-C
1-0434-C
1-0439-C
1-0445-C
1-0446-C

1-0503-C
1-0549-C
1-0550-C
1-0551-C
1-0552-C
1SN0738C
1SN0899C
1SN0972C
1SN0992C
1SN1056C
1SN1057C
1SN1277CW
1SN1283C
1SN1432M
1SN1486C
1SN1549C
1SN1567C
1SN1568C
1SN1649C
1SN1906C
1SN2061C
1SN2138C
1SN2154C
1SN2228C
1SN2419CW
1SN2489C
1NN2530C
1SN2585C
1SN2642C
1SN2647M
1SN2658C
1SN2698C
ISN2728C
1SN2793C
1SN2945C
1NN2972C
1SN2987C
1SN2992C
1SN3013C
1SN3017C
1SN3039C
1SN3041C
1SN3111C
1SN3115C
1NN3132C
1SN3139C
1SN320CW
1SN3255C
1SN3261C
1SN3385C
1SN3386C
1SN3475C
1SN3482C
1SN3483C

1SN3516CW
1SN3589C
1SN3614C
1SN3753C
1NN3768C
1SN3779C
1SN3784C
1SN3794C
1SN3795C
1SN3796C
1SN3890C
1SN3891C
1SN3892C
1NN4121C
1SN4276C
1SN4283C
1SN4293C
1SN4389C
1NN4530C
1SN4536C
1SN5823C
1SN5847C
1NN6009C
1SN6117C
1SN6299C
1SN6331C
1SN6795C
1SN6809C
1SN8312C
1SN8378C
1SN8590C
1SN8612C
1SN8890C
1NN8967C
1SN9119C
1SN9476C
1SN10026C
1SN10381PW
1SN10931C
1SN11086C
1SN11282C
1SN11592C
1SN11689C
1SN11986C
1SN12190C
1SN12517C
1SN13280C
1SN15220MW
1SN15352C
1SN15685PW
1SN15723CW
1SN16728CW
1SN16988CW
1SN19864C

LIST OF FIELD CHANGE REQUEST

1-0860-C
1-0901-C
1-0917-C
1-0928-C
1-0957-C
1-0974-C
1-0993-C
1-1007-C
1-1434-C
1-1440-C
1-1590-C

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*JOINT.TYPE      U S        .          W D                         .  I C        . U R  . U C  .  M M   . I J  G N
*    .  A  B  C  D . A  B  C  D  E  F  G  H  I  J  K  L . A  B  C  D . A  B . A  B . A  B  C . A  B
*=====.====.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.
```

JOINT TYPE
F) BEAM FRAMING CONNECTION
O) OTHER

(US) UNDERSIZED
A) UNDERSIZED FOR PART OF LENGTH
B) ONE LEG UNDER SIZED
C) FULL LENGTH UNDERSIZED
D) UNDERSIZED DUE TO FIT-UP/ROOT GAP

(WD) WELD DEFECTS
A) OVERLAP
B) INCOMPLETE PENETRATION
C) LACK OF FUSION
D) EXCESSIVE REINFORCEMENT
E) EDGE CONSUMPTION
F) CRACKED
G) GOUGED/GRINDING
H) SLAG
I) POROSITY
J) ARC STRIKE
K) CONVEXITY
L) OTHER

(IC) INCORRECT CONFIGURATION
A) GAP IN CONTINUOUS WELD
B) SPACING ON INTERMITTENT WELD
C) OVERRUN
D) WELD IN WRONG LOCATION/NOT WELDED PER DRAWING (RE: BEVEL VS. FILLET, ETC.)

(UR) UNDERRUN
A) GREATER THAN 1 INCH
B) LESS THAN 1 INCH IN LENGTH

(UC) UNDERCUT
A) MAJOR/LENGTH NOT NOTED
B) MINOR, LESS THAN 1 INCH

(MM) MISSING MATERIAL
A) MATERIAL CHANGE-OUT
B) MISSING MATERIAL
C) MISSING WELD

(IJ) INACCESSIBLE JOINT
A) TOTAL JOINT INACCESSIBLE
B) WELD INACCESSIBLE/INDETERMINATE

(GN) GENERAL NOTES
OK) ALL WELDS ACCEPTED

R FLAG IN DEFECT COLUMN INDICATES ALL DEFECTS ON END RETURN ONLY.
*FLAG IN DEFECT COLUMN INDICATES THAT A NOTE IS APPLICABLE.

NOTE: DEFECTS ARE TABULATED FOR ALL WELDS NOT INDICATED AS ACCEPTED ON INSPECTION REPORT FORM.

..... END REPORT .....

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.DATE 18 JAN 85  14:14:14  RID       2    13 NOV 84  BECHTEL
.   AUXILIARY BUILDING                                                   F004532
*     .                    .                                               .        AWS WELDING REPORT. APPENDIX D. PAGE 2
*JOINT.TYPE       U S      .                   W D                         .      I C      . U R . U C .    M M    . I J   GN
*     .      A   B   C   D . A   B   C   D   E   F   G   H   I   J   K   L . A   B   C   D . A   B . A   B . A   B   C . A   B
*=====.====.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.
 AA    F                                                                            R 4
*
 AB    F        R 1         * 1                                                     R 4         1
*WD-A:DEFECT LENGTH IS 3/8
*
 AC    F                                                                            R 4     4
*
 AD    F                                                                            R 4
*
 AE    F                                                                            R 4
*
 AF    F                                                                                                                * 3
*MM-C:NO WELDS PRESENT ON WEST CLIP ANGLE TO BEAM
*
 A001  F      1   1   9                                                             R 4                                       2
*
 A002  F
*GN:PREVIOUSLY INSPECTED AS JOINT AB
*
 A003  F        R 2           2               6                       2             R 4
*
 A004  F      1       1                                                               5           1
*
 A005  F          6   1     R 1     R 1       9                                     R 4           2
*
 A006  F              3       2       2       5                                       5               1                       1
*
 A007  F          2   7       3       3       7                         * 2           5               2                       5
*WD-L:PROFILE DEFECT NOTED,BUT NOT DEFINED
*
 A008  F                                                                              5           2                         R 2
*
 A009  F          3   1                                                               5       1                               1
*
 A010  F    * 1 R 2   2             R 1     R 4                                     R 4           1
*US-A:ONE LEG IS UNDERSIZED FOR 25% OF THE TOTAL LENGTH
*
 A011  F          3   2               2                                             R 4           1       1                   6
*
 A012  F    * 1   2   1               1                                               5                               1       1
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 50% OF THE TOTAL LENGTH
*
 A013  F        R 1   1                                                               6                               1
*
 A014  F          3                                                                 R 4
*
 A015  F          4   4                                                               6
*
 A016  F          2                                                                 R 4
```

JOINT	TYPE	UA	UB	UC	UD	WDA	WDB	WDC	WDD	WDE	WDF	WDG	WDH	WDI	WDJ	WDK	WDL	ICA	ICB	URC	URD	UCA	UCB	MMA	MMB	IJC	IJA	IJB	GN
A017	F									R 2									R 4										
A018	F		R 1							R 4									R 4										
A019	F									R 3									R 4										
A020	F									R 1									R 4										
A021	F									R 4									R 4										
A022	F																* 1		7		1								
*WD-L:EXCESSIVE CONCAVITY/INSUFFICIENT THROAT																													
A023	F		4	1															6		1					1			
A024	F		3						2										8		4		R 1						
A025	F		1	1															5		3								
A026	F				2														3									10	
A027	F		R 1							R 4									R 4										
A028	F																										* X		
*IJ-A:EMBEDDED IN CONCRETE																													
A029	F		1	3															6		1	1							
A030	F	* 1	3	2						1									5		2	1							
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 13% OF THE TOTAL LENGTH																													
A031	F		R 3	4															6		3								
A032	F		3	3															5										
A033	F	* 1	3	R 1						5									6		2								
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 13% OF THE TOTAL LENGTH																													
A034	F		2	3						4									6		2								
A035	F			3			* 1			6									6		1							* 2	
*WD-C:DEFECT LENGTH IS 1/16 ; IJ-B:LOCATED IN BLOCKWALL																													
A036	F	2		* 4						1									R 4							* 2			
*MM-C:SEAT TO BEAM WELDS ARE MISSING ; US-C:ONE WELD WAS REJECTED BASED ON VISUAL INSPECTION																													
A037	F																												*
*GN:PREVIOUSLY INSPECTED AS JOINT AE																													
A038	F		1							6									6		2								

JOINT TYPE	U A	U B	S C	D	W A	W B	W C	W D	W E	W F	W G	W H	W I	W J	W K	W L	I A	I B	C	U D	U R A	U R B	U C A	U C B	M A	M B	M C	I A	I J B	GN
A039 F		2	1						3										6								* 2			
*MM-C:SEAT TO BEAM WELDS ARE MISSING																														
A040 F			2						2										6								* 2			
*MM-C:SEAT TO BEAM WELDS ARE MISSING																														
A041 F		1			R 1				5										5								* 2		* 1	
*MM-C:SEAT TO BEAM WELDS ARE MISSING ; IJ-B:WELD IN PLACE, BUT MEASUREMENT NOT OBTAINABLE																														
A042 F		*R1	3	3															6			1		* 1						
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 19% OF THE TOTAL LENGTH;MM-A:FILLER PLATE WAS INSTALLED																														
A043 F		1							R 3										6			1		* 1						
*MM-A:FILLER PLATE WAS INSTALLED																														
A044 F						*R1			R 4										R 4											
*WD-C:DEFECT LENGTH IS 1/4																														
A045 F									5										R 4				1							
A046 F		* 1	1	1															6								* 2			
*US-A:ONE LEG IS UNDERSIZED FOR PART OF THE LENGTH ; MM-C:SEAT TO BEAM WELDS ARE MISSING																														
A047 F		R 3	3		3		* 1		7						R 1				5		1	1								
*WD-C:DEFECT LENGTH IS 3/8																														
A048 F			2	R 1		R 1		* 1		3									R 4											
*WD-C:DEFECT LENGTH IS 5/8																														
A049 F			2	2															6		2									
A050 F			3	3					4										5											
A051 F			2	5		* 1		* 1		R 4									R 4			1		2						
*WD-C:DEFECT LENGTH IS APPROX. 1/4 ; WD-A:DEFECT LENGTTH IS APPROX. 4-3/8																														
A052 F			1		2														7				2							
A053 F																			7			1								
A054 F			1		2														6			2	2							
A055 F									R 2										R 4							* X				
*MM-B:BEAM SEAT IS NOT INSTALLED																														
A056 F									5		* 1								R 4			1								
*WD-G:GOUGES (1/8 DEEP) ACROSS WELD BEAD																														
A057 F			R 1					* 1		4									R 4											
*WD-C:DEFECT LENGTH IS 1/4																														

. AUXILIARY BUILDING   F004532

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JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A058	F			1						2										3								* 1		* 9	
*MM-C:SEAT TO BEAM WELD IS MISSING ; IJ-B:EMBEDDED IN CONCRETE																															
A58A	F					1														R 4											
A059	F																			R 4											
A060	F		2	1				* 1		6										R 4								* 1		* 2	
*WD-C:DEFECT LENGTH IS 1/2 ; MM-C:SEAT TO BEAM WELD IS MISSING ; IJ-B:IN BLOCKWALL																															
A061	F		2	2		2				11						2				6				2				* 2			
*MM-C:SEAT TO BEAM WELDS ARE MISSING																															
A062	F																														OK
A063	F	* 1	3	1						8										6								* 2		* 2	
*MM-C:SEAT TO BEAM WELDS ARE MISSING ; US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 16% OF THE TOTAL LENGTH																															
*IJ-B:LIMITED ACCESS-COULDN'T MEASURE ACCURATELY,BUT APPEARED TO MEET MINIMUM REQUIREMENTS																															
A064	F					1		* 1		7										6					2			* 2		* 4	
*MM-C:SEAT TO BEAM WELDS ARE MISSING ; WD-C:DEFECT LENGTH IS 1/4																															
*IJ-B:LIMITED ACCESS-APPEAR TO MEET MINIMUM REQUIREMENTS																															
A065	F		R 1	1				* 2		9	* 1									6		1		2	1					* 2	
*WD-C:DEFECT LENGTH IS 1/4 MAXIMUM ; WD-F:DEFECT LENGTH IS 3/4 ; IJ-B:LIMITED ACCESS-VISUALLY OK																															
A066	F																												* X		
*IJ-A:EMBEDDED IN CONCRETE																															
A067	F	* 1	3			R 1				7										5				1				* 2		* 1	
*MM-C:SEAT TO BEAM WELDS ARE MISSING ; US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 19% OF THE TOTAL LENGTH																															
*IJ-B:CANNOT BE MEASURED DUE TO EDGE CONSUMPTION, BUT APPEARS OK																															
A068	F		1					* 1		11		* 8						* 1		6					2			* 2		* 6	
*WD-C:DEFECT LENGTH IS 1/2 ; IC-A:1/2 DIAMETER BOLT HOLE IN WELD PATH ; MM-C:SEAT TO BEAM WELDS ARE MISSING																															
*WD-G:GOUGES DUE TO CONCRETE REMOVAL DEEPER THAN 1/8 (3 PLACES) & GRINDING (5 PLACES)																															
*IJ-B:CANNOT BE MEASURED DUE TO EDGE CONSUMPTION AND/OR GRINDING-SIZE IS VISUALLY OK																															
A069	F			2		2		* 1		12		* 2						* 1		6					1			* 2		* 9	
*MM-C:SEAT TO BEAM WELDS ARE MISSING ; IC-A:1/2 DIAMETER BOLT HOLE IN WELD PATH																															
*WD-G:GOUGES DUE TO GRINDING ; WD-C:BETWEEN WELD PASSES,FULL LENGTH																															
*IJ-B:INACCESSIBLE FOR ACCURATE SIZE MEASUREMENT-VISUALLY APPEAR TO BE OK																															
A070	F		5							8		* 1								R 4			4	1	1			* 1		* 1	
*MM-C:SEAT TO BEAM WELD IS MISSING ; WD-G:GRINDING ; IJ-B:UNABLE TO ACCURATELY MEASURE SIZE BECAUSE OF GRINDING																															
A071	F			2		1		* 1		8	* 1									6			5		1						
*WD-C:DEFECT LENGTH IS 3/4 MAXIMUM ; WD-F:BEAD SEPARATED,FULL LENGTH																															
A072	F		2	7	* 1					5										R 4			2								

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.   AUXILIARY BUILDING                                                     F004532
*                                                                               .           AWS WELDING REPORT, APPENDIX D, PAGE 6
*JOINT.TYPE      U S    .                  W D                                   .     I C     . U R  . U C  .   M M    . I J  GN
*   .     A  B  C  D .A  B  C  D  E  F  G  H  I  J  K  L .A  B  C  D .A  B .A  B .A  B  C .A  B
*=====.====.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.
*US-D:UNDERSIZED DUE TO 1/8  FIT-UP GAP
*
 A073  F           9          * 1     4                     * 1     5       2
*WD-L: COLDLAP  AT WELD'S END(DEFECT LENGTH IS 1/4 )  ; WD-C:DEFECT LENGTH IS 1/4
*
 A074  F        3  5                  6                             5       3
*
 A075  F     R 1  2                   6                             5                                   * 2
*IJ-B:LOCATED IN BLOCKWALL
*
 A076  F             *R1        *R1   3                           R 4       1
*WD-C:DEFECT LENGTH IS 1/4   ; US-D:UNDERSIZED DUE TO 3/16  FIT-UP GAP
*
 A077  F        R 1  3    * 2   *R1   6                           R 4       2                 * 4
*WD-A:DEFECT LENGTH IS 1/2   ; WD-C:DEFECT LENGTH IS 1/4
*MM-C:SEAT TO EMBED(TOP) & SEAT TO BEAM WELDS ARE MISSING-2 PLACES EACH
*
 A078  F                            R 4                           R 4
*
 A079  F                            R 4                           R 4
*
 A080  F                            R 4                           R 4
*
 A081  F                                                          R 4
*
 A082  F                            R 4                           R 4
*
 A083  F                            R 4                           R 4
*
 A084  F                            R 4                           R 4
*
 A085  F                            R 4                           R 4
*.
 A086  F                            R 4                           R 4
*
 A087  F                                                          R 4
*
 A088  F                                                          R 4
*
 A089  F                                                          R 4
*
 A090  F                                                          R 4
*
 A091  F                                                          R 4
*
 A092  F                                                          R 4
*
 A093  F        R 1             * 1  R 2                          R 4
*WD-C:DEFECT LENGTH IS 3 (LACK OF FUSION BETWEEN BEADS)
*
 A094  F                            R 4                           R 4
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JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A095	F									R 4										R 4											
A096	F		R 1																	R 4											
A097	F	* 1								6		* 1								R 4			2								
*WD-G:GOUGED ACROSS WELD BEAD(1/4 DEEP-1/8 WIDE) ; US-A:INSUFFICIENT THROAT(1/2 LONG)																															
A098	F		R 2		* 2															R 4		2					* X				
*MM-B:BEAM SEAT IS NOT INSTALLED ; US-D:UNDERSIZED DUE TO 1/8 FIT-UP GAP																															
A099	F					1														R 4											
A100	F			2																6								* 2			
*MM-C:SEAT TO BEAM WELDS ARE MISSING																															
A101	F	2	2																	R 1		4									
A102	F	1	R 2	1		2		2					2							R 1		3									
A103	F	2	R 1																			4									
A104	F																					2									
A105	F																			R 4											
A106	F		2																	R 1		4									
A107	F	2																				2									
A108	F																														OK
A109	F		4																	R 2										* 3	
*IJ-B:INACCESSIBLE DUE TO DROPPED CEILING-MEASUREMENTS NOT OBTAINABLE																															
A110	F		1	3																5			2							*R1	
*IJ-B:EMBEDDED IN CONCRETE																															
A111	F	1		3																		3						1		3	
A112	F	1																		R 4											
A113	F		1							R 4										R 4			1	1							
A114	F		3					* 1												R 4			2								
*WD-C:DEFECT LENGTH IS 3/8																															
A115	F		5	1				* 1												R 4			4		1						
*WD-C:DEFECT LENGTH IS 1/8																															
A116	F																			R 4											

JOINT	TYPE	U A	U B	U C	U D	S A	S B	S C	S D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	I C C	I C D	U R A	U R B	U C A	U C B	M M A	M M B	M M C	I J A	I J B	GN
A117	F																												X		
*IJ-A:EMBEDDED IN CONCRETE																															
A118	F						R	1											R	4											
A119	F																												X		
*IJ-A:EMBEDDED IN CONCRETE																															
A120	F		2					1											R	4											
A121	F																		R	4											
A122	F																												X		
*IJ-A:EMBEDDED IN CONCRETE																															
A123	F						1												R	4											
A124	F							1											R	4											
A125	F		1																R	4											
A126	F						R	2											R	4											
A127	F																												X		
*IJ-A:EMBEDDED IN CONCRETE																															
A128	F																		R	4											
A129	F																														OK
A130	F																														OK
A131	F																														OK
A132	F									* 1							* 1														
*WD-G & WD-H:DEFECT LENGTH IS 3/4																															
A133	F																														OK
A134	F																														OK
A135	F																														OK
A136	F																		R	2											
A137	F																														OK
A138	F																		R	2											
A139	F																		R	2											

JOINT	TYPE	UA	UB	UC	UD	SA	SB	SC	SD	WD	WE	WF	WG	WH	WI	WJ	WK	WL	IA	IB	IC	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A140	F																														OK
A141	F			2																	R 2										
A142	F																				R 2										
A143	F																														OK
A144	F		2					* 1						* 1																	
*WD-A & WD-H:DEFECT LENGTH IS 1																															
A145	F		3																												
A146	F		1		1									* 1																	
*WD-G & UC-A:DEFECT LENGTH IS 1-1/2																															
A147	F		1		1																										
A148	F		1		1									* 1																	
*WD-H:DEFECT LENGTH IS NOT SPECIFIED																															
A149	F		1																												
A150	F																														OK
A151	F																														OK
A152	F																														OK
A153	F		1		5																R 2				1						
A154	F																														OK
A155	F																														OK
A156	F																														OK
A157	F																							1							
A158	F							* 1																1							
*WD-C:BETWEEN BEADS(DEFECT LENGTH IS 1/4)																															
A159	F							* 2																3							
*WD-C:DEFECT LENGTH IS 1/2 MAXIMUM																															
A160	F																							2							
A161	F																														OK
A162	F			2				* 1																							

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
*WD-A:DEFECT LENGTH IS 1/4																															
A163	F																														
																					1										
A164	F																														
																															OK
A165	F																														
															1																
A166	F																														
																															OK
A167	F																														
																															OK
A168	F		1				1								1		* 1														
*WD-L:DESIGNATED AS COLDLAP																															
A169	F									R	2																				
A170	F									R	2																				
A171	F									R	2																				
A172	F		1							R	2																				
A173	F									R	2																				
A174	F									R	2																				
A175	F									R	2																				
A176	F									R	2																				
A177	F									R	2																				
A178	F									3																					
A179	F																														
																															OK
A180	F									R	2																				
A181	F									R	2																				
A182	F																														
																															OK
A183	F												1																		
A184	F																														
																															OK
A185	F																														
																				R	2										
A186	F																														
																															OK

JOINT	TYPE	U A	U B	U C	U D	S A	S B	S C	S D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	I C D	U R A	U C A	U C B	M M A	M M B	M M C	I J A	I J B	GN
A187	F																												OK
A188	F																												OK
A189	F																												OK
A190	F																												OK
A191	F		2																R 2		2								
A192	F																												OK
A193	F																												OK
A194	F																												OK
A195	F																												OK
A196	F				6		1																						2 *
*GN:EXTENSIVE BASE MATERIAL DAMAGE (GOUGES) EXISTS ON EMBEDDED PLATE ADJACENT TO WELD NO. 7																													
A197	F																												OK
A198	F						1																						
A199	F																			1									*
*GN:JOINT IS HEAVILY OXIDIZED																													
A200	F						2																						
A201	F																												OK
A202	F																												OK
A203	F						* 2																						
*WD-A:DEFECT LENGTH IS 1/2																													
A204	F																												OK
A205	F																												OK
A206	F																												OK
A207	F						* 1																						
*WD-A:DEFECT LENGTH IS 3/8																													
A208	F																				1								
A209	F																												OK
A210	F																												OK

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*JOINT	TYPE	U S				W D												I C				U R		U C		M M			I J		GN	
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B		
A211	F																						4									
A212	F																														OK	
A213	F							* 2															1									*WD-C:DEFECT LENGTH IS 1/2 MAXIMUM
A214	F					* 1																										*WD-A:DEFECT LENGTH IS 1/2
A215	F																						4									
A216	F		2																	R 2												
A217	F		1																				3									
A218	F		2																	R 2					1							
A219	F		2	1																					1							
A220	F							* 1															4									*WD-C:DEFECT LENGTH IS 1/8
A221	F																			R 2												
A222	F					* 1														R 2			1									*WD-A:DEFECT LENGTH IS 3/8
A223	F							* 2																								*WD-C:DEFECT LENGTH IS 5/16 MAXIMUM
A224	F																			R 2												
A225	F		1																	R 2												
A226	F							* 1																								*WD-C:DEFECT LENGTH IS 1
A227	F			* 1																R 2												*US-C:UNABLE TO MEASURE ACCURATELY DUE TO GRINDING-SIZE VISUALLY REJECTED
A228	F					* 1														R 2												*WD-A:DEFECT LENGTH IS 1/2
A229	F			R 2		* 1														R 2												*WD-A:DEFECT LENGTH IS 2-3/8
A230	F					* 1																										*WD-A:DEFECT LENGTH IS 1/4

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AWS WELDING REPORT. APPENDIX D. PAGE 13

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A231	F					* 1		* 1												R 2											
*WD-C:DEFECT LENGTH IS 1/4 ; WD-A:DEFECT LENGTH IS 1/16																															
A232	F		1	R 2				3					R 1				*R1			R 3			* 2							4	
*WD-L:COLDROLL;UR-B:WELDED FULL LENGTH AVAILABLE-BEAM SETBACK CAUSED THE UNDERRUN																															
A233	F	* 1				* 1																									
*WD-A:DEFECT LENGTH IS 1/2 ; US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 14% OF THE TOTAL LENGTH																															
A234	F	* 1																					1		1						
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 23% OF THE TOTAL LENGTH																															
A235	F		4																				1								
A236	F							* 1															1								
*WD-C:DEFECT LENGTH IS 1-1/2																															
A237	F																			R 2											
A238	F																						* 1								
A239	F																														OK
A240	F																														OK
A241	F																			R 2											
A242	F																						1								
A243	F																			R 2			1								
A244	F																														OK
A245	F																						1								
A246	F		4	6																R 2											
A247	F		5	4																R 2											
A248	F		5	3		* 1											* 1			R 2										1	
*WD-A:DEFECT LENGTH IS 1 ; WD-L:CRATER-1/8 DEEP. 1/4 LONG																															
A249	F		6	1																			1								
A250	F	2	2	5																R 2			1								
A251	F		1	7																										1	
A252	F	1	1	5																R 2											
A253	F		2	6				1												R 2											

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JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A254	F																						3								
A255	F		2			* 1																	4								
*WD-A:DEFECT LENGTH IS 5/8																															
A256	F		1	5		* 2														R 2			1								
*WD-A:DEFECT LENGTH IS 3/4 MAXIMUM																															
A257	F	1		8								* 1						* 1		R 2											
*WD-G:GRINDING (BASE METAL REDUCTION)																															
*IC-A:1-1/8 OF WELD LENGTH IS MISSING DUE TO A NAIL HOLE																															
A258	F		2																												
A259	F							*R1					* 1				* 1			R 4											
*WD-H:70% OF WELD ; WD-C:DEFECT LENGTH IS 1/4 ; WD-L: COLDROLL -80% OF WELD																															
A260	F																			R 4											
A261	F																			R 4											
A262	F							*R2												R 4											
*WD-C:DEFECT LENGTH IS 1/2 MAXIMUM																															
A263	F																			R 4											
A264	F																			R 4											
A265	F																			R 4											
A266	F							* 1									* 1			R 4					1						
*WD-C:DEFECT LENGTH IS 1/2 ; WD-L: COLDROLL -DEFECT LENGTH IS 1																															
A267	F																			R 4					1						
A268	F																			R 4											
A269	F																* 2			R 4					2						
*WD-L: COLDROLL -DEFECT LENGTH IS 3/8 MAXIMUM																															
A270	F							* 2									* 2			R 4				1	1						
*WD-C:DEFECT LENGTH IS 5/8 MAXIMUM ; WD-L: COLDROLL -DEFECT LENGTH IS 1/2 MAX																															
A271	F																			R 4											
A272	F																			R 4											
A273	F																			R 4											
A274	F																			R 4											

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	UC C	MM	IJ A	IJ B	GN
A275	F																			R 4										
A276	F																			R 4										
A277	F																			R 4										
A278	F																											X		
A279	F																											X		
A280	F		2																		4									
A281	F					* 1														R 2			1	2						
*WD-A:DEFECT LENGTH IS 5/8																														
A282	F																													OK
A283	F					* 1														R 2				3						
*WD-A:DEFECT LENGTH IS 1/4																														
A284	F																			R 2										
A285	F																													OK
A286	F	* 1						* 2												R 2				1						
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 8% OF THE TOTAL LENGTH ; WD-C:DEFECT LENGTH IS 3/8 MAXIMUM																														
A287	F				* 1																									
*US-D:UNDERSIZED DUE TO 1/8 FIT-UP GAP																														
A288	F																			R 4										
A289	F																			R 2				2						
A290	F																			R 1								* 5		
*IJ-B:EMBEDDED IN CONCRETE																														
A291	F																				3									
A292	F																											*11		
*IJ-B:EMBEDDED IN CONCRETE																														
A293	F			2																								* 1		
*IJ-B:PARTIALLY EMBEDDED IN CONCRETE																														
A294	F																			R 4										
A295	F																				2									
A296	F																													OK

JOINT	TYPE	U A	U B	U C	U D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A297	F																												OK
A298	F																		R 2										
A299	F																		R 2										
A300	F																		R 2										
A301	F																											1	
A302	F																											1	
A303	F																		R 2										
A304	F																												OK
A365	F																		R 2										
A306	F																												OK
A307	F																												OK
A308	F																												OK
A309	F																		R 1										
A310	F		R 1				* 1												R 2										
*WD-C:DEFECT LENGTH IS 3/4																													
A311	F																		R 2										
A312	F														1														
A313	F																		R 2		2								
A314	F																												OK
A315	F		1 R 1														* 2		6		1				* 2				*
*WD-L: COLDROLL ; MM-C:SEAT TO BEAM WELDS ARE MISSING ; GN:WELD & BASE METAL GOUGED BY CHIPPING																													
A316	F																* 4		R 4										*
*WD-L: COLDROLL ; GN:WELD & BASE METAL GOUGED BY CHIPPING																													
A317	F		1														*R2		5		3							4	*
*WD-L: COLDROLL ;GN:WELD & BASE METAL GOUGED BY CHIPPING																													
A318	F																										* X		*
*IJ-A:EMBEDDED IN CONCRETE																													
A319	F						* 1												R 1		1							9	*

JOINT TYPE	U A	U B	U C	U D	S A	S B	W C	W D	W E	W F	W G	W H	W I	W J	W K	W L	I A	I B	I C	U A	U B	U C	M A	M B	M C	I A	I B	GN
WD-C:DEFECT LENGTH IS 1-3/8 ; GN:WELD & BASE METAL GOUGED BY CHIPPING																												
A320 F						2													R 3						* 4		4	
MM-C:SEAT TO BEAM AND SEAT TO EMBED RETURN																												
A321 F																											* 5	
IJ-B:WELD SIZE AND/OR LENGTH IS INDETERMINATE																												
A322 F																			R 2									
A323 F						1																1						
A324 F																												OK
A325 F																												OK
A326 F																			R 4									*
GN:WELD & BASE METAL GOUGED BY CHIPPING																												
A327 F					R	1													7									*
GN:WELD & BASE METAL GOUGED BY CHIPPING																												
A328 F																	*	2	5			2	3					*
WD-L: COLDROLL -DEFECT LENGTH IS 1-1/2 MAXIMUM ; GN:WELD & BASE METAL GOUGED BY CHIPPING																												
A329 F																			R 4									
A330 F					R	1													R 4									
A331 F					4	3										1			R 6			2						
A332 F																			R 4									*
GN1:GOUGES IN WELD & BASE METAL																												
A333 F																			R 4									*
GN1:GOUGES PRESENT																												
A334 F																			R 4									*
GN1:GOUGES PRESENT																												
A335 F																			R 4									*
GN1:GOUGES PRESENT																												
A336 F																			R 4									*
GN1:GOUGES PRESENT																												
A337 F																			R 4									*
GN1:GOUGES PRESENT																												
A338 F																			R 4									

JOINT	TYPE	U S	W D	I C	U R	U C	M M	I J	GN
		A B C D	A B C D E F G H I J K L	A B C D	A B	A B	A B C	A B	
A339	F			R 4					*
*GN1:GOUGES PRESENT									
A340	F			R 4					
A341	F			R 4					*
*GN1:GOUGES PRESENT									
A342	F			R 4					*
*GN1:GOUGES PRESENT									
A343	F			R 4					*
*GN1:GOUGES PRESENT									
A344	F	* 1		R 4					*
*GN1:GOUGES PRESENT									
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 50% OF THE TOTAL LENGTH									
A345	F			R 4					*
*GN1:GOUGES PRESENT									
A346	F			R 4	1				*
*GN1:GOUGES PRESENT									
A347	F			R 4	2				*
*GN1:GOUGES PRESENT									
A348	F							* X	
*IJ-A:EMBEDDED IN CONCRETE									
A349	F			R 4					
*GN1:GOUGES PRESENT									
A350	F			R 4					
A351	F							* X	
*IJ-A:EMBEDDED IN CONCRETE									
A352	F			R 4					*
*GN1:GOUGES PRESENT									
A353	F							* X	
*IJ-A:EMBEDDED IN CONCRETE									
A354	F			R 4					*
*GN1:GOUGES PRESENT									
A355	F			R 4					*
*GN1:GOUGES PRESENT									
A356	F			R 4					*

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.   AUXILIARY BUILDING                                                     F004532
*      .                 .                                               .           AWS WELDING REPORT, APPENDIX D, PAGE 19
*JOINT.TYPE        U S        .                       W D                .        I C       . U R  . U C  .    M M    . I J   GN
*      .      A   B   C   D . A   B   C   D   E   F   G   H   I   J   K   L . A   B   C   D . A   B . A   B . A   B   C . A   B
*====.====.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.
*GN1:GOUGES PRESENT
*
 A357  F                                                                          R 4          1                          *
*GN1:GOUGES PRESENT
*
 A358  F                                                                          R 4          2                          *
*GN1:GOUGES PRESENT
*
 A359  F                                                                          R 4                                     *
*GN1:GOUGES PRESENT
*
 A360  F                                                                          R 4          4
*
 A361  F                                                                                                          * X
*IJ-A:EMBEDDED IN CONCRETE
*
 A362  F                                                                          R 4                                     *
*GN:WELD & BASE METAL GOUGED BY CHIPPING
*
 A363  F                                                                          R 4                                     *
*GN:WELD & BASE METAL GOUGED BY CHIPPING
*
 A364  F                                                                          R 4          4                          *
*GN:WELD & BASE METAL GOUGED BY CHIPPING
*
 A365  F                                                                                                          * X
*IJ-A:EMBEDDED IN CONCRETE
*
 A366  F                                                                                                          * X
*IJ-A:EMBEDDED IN CONCRETE
*
 A367  F                                                                                                          * X
*IJ-A:EMBEDDED IN CONCRETE
*
 A368  F                                                                                                          * X
*IJ-A:EMBEDDED IN CONCRETE
*
 A369  F                                                          * 1               2                       * 2        11
*WD-L: COLDROLL  (DEFECT LENGTH IS 1 3/4 );MM-C:SEAT TO BEAM WELDS ARE MISSING
*
 A370  F                                *R1                       * 1             R 4          1                          *
*WD-L: COLDROLL  (DEFECT LENGTH IS 3/8 );WD-C:DEFECT LENGHT IS 1/8
*GN:WELD & BASE METAL GOUGED BY CHIPPING
*
 A371  F                                                                            2                                  * 8
*IJ-B:EMBEDDED IN CONCRETE
*
 A372  F                                                          * 1               3          1                       * 4
*IJ-B:EMBEDDED IN CONCRETE
*WD-L: COLDROLL  (DEFECT LENGTH IS 1/2 )
*
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AUXILIARY BUILDING

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JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A373	F		R 1	1																R 3			2							* 1	
*IJ-B:EMBEDDED IN CONCRETE																															
A374	F		2	1																R 4			1		1						
A375	F		7																	R 4											
A376	F																			R 2										6	
A377	F		R 1	1																R 4											
A378	F		3																	R 4					1						
A379	F			2																R 4											
A380	F																												* X		
*IJ-A:EMBEDDED IN CONCRETE																															
A381	F		R 2			* 1														R 4		4									
*WD-A:DEFECT LENGTH IS 1 1/2																															
A382	F			R 1																R 3		4									
A383	F			2																R 4		3									
A384	F		R 1	2													*R1			4											
*WD-1: PROFILE DEFECT NOTED, BUT NOT DEFINED																															
A385	F		R 1	3																R 4								* 2			
*MM-C:SEAT TO BEAM WELDS ARE MISSING																															
A386	F		4	3																6				1				* 2			
*MM-C:SEAT TO BEAM WELDS ARE MISSING																															
A387	F			3																5											
A388	F		R 1	2																R 4										1	
A389	F																												X		
A390	D																													6	
A391	F		R 1					R 1					2							R 2										7	
A392	F																			R 4											
A393	F																												* X		
*IJ-A:EMBEDDED IN CONCRETE																															
A394	F																			R 4											

JOINT	TYPE	U	S	W	D	I	C	U	R	U	C	M	M	I	J	GN
		A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
A395	F															5											
A396	F															R	3					R	1				
A397	F		1													R	2										3
*GN:WELD & BASE METAL GOUGED BY CHIPPING																											
A398	F															R	3										3
*GN:WELD & BASE METAL GOUGED BY CHIPPING																											
A399	F															R	4										
*GN:WELD & BASE METAL GOUGED BY CHIPPING																											
A400	F																										OK
A401	F																										OK
A402	F			*	1																						
*US-C:UNABLE TO MEASURE-REJECTED VISUALLY																											
A403	F			*	1																						
*US-C:UNABLE TO MEASURE-REJECTED VISUALLY																											
A404	F															R	4										
A405	F															R	4										
A406	F																										
*PREVIOUSLY INSPECTED AS JOINT AA																											
A407	F															R	4										
A408	F																								X		
A409	F																								X		
A410	F																								X		
A411	F																								X		
A412	F		1																			R	1			9	
A413	F		5													R	4										
A414	F																										OK
A415	F																										OK
A416	F																										OK
A417	F																										OK

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	I A	I B	GN
A418	F																			R 4											
A419	F		4	3																		4									
A420	F		1																	R 2											
A421	F																														OK
A422	F		1																	R 2											
A423	F																														OK
A424	F																						1								
A425	F																														OK
A426	F																														OK
A427	F																														OK
A428	F																			R 1											
A429	F																														OK
A430	F		7																	R 1		4									
A431	F		2	3																R 3		4									
A432	F		1																												
A433	F		2	1																											
A434	F																														OK
A435	F		4	2																R 1		4									
A436	F																					4									
A437	F																			R 2											
A438	F																			2											
A439	F							* 1												R 1											
*WD-C:DEFECT LENGTH IS 3/8																															
A440	F																			R 2											
A441	F																														OK
A442	F																														OK

*JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A443	F																														OK
A444	F																														OK
A445	F		1	4																R	2		4								
A446	D																														OK
A447	F																														OK
A448	F																														OK
A449	F																														OK
A450	C																														OK
A451	D																														OK
A452	D																														OK
A453	D			2																											
A454	D																														OK
A455	F		2																												
A456	F		2																						2						
A457	F		1																	R	2										*
*GN:WELD & BASE METAL GOUGED BY CHIPPING																															
A458	F					*	1													R	4				3						*
*WD-C:DEFECT LENGTH IS 1/8																															
*GN:WELD & BASE METAL GOUGED BY CHIPPING																															
A459	F		3																	R	1									7	
A460	F																*R1			R	2		1							10	
*WD-L:EXCESSIVE CONCAVITY																															
A461	F																						4								
A462	F																						3								
A463	F																						4								
A464	F																						4								
A465	F																														OK
*GN:INSTALLED PER NCR 1SN3021C																															

JOINT	TYPE	US				WD												IC				UR		UC		MM			IJ		GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
A466	F																														2 *
*GN:WELD & BASE METAL GOUGED BY CHIPPING																															
A467	F																														1
A468	F																														OK
A469	F																														OK
A470	F																* 1			R 4		4									
*WD-L: UNDERFILL																															
A471	F																			R 4		4									
A472	F		R 3	R 3																R 2		4									
*GN:VOID - LADDER																															
A473	F		R 2																	R 4											
A474	F																			R 4											
A475	O																* 1									* 4					
*WD-L: COLDROLL (DEFECT LENGTH IS 1/4);MM-A:SHIM PLATES WERE INSTALLED																															
A476	F																			R 3											
A477	F			R 3																R 4											
A478	F																														OK
A479	F		R 1																				R 1								3
A480	F		R 3																	R 4											
A481	F		R 2	R 1																R 4						* 1					
*MM-A:SHIM PLATE WAS USED																															
A482	F																			R 4					1						
A483	F			* 1													* 1			R 4											
*WD-L:EXCESSIVE CONCAVITY;US-C:INSUFFICIENT THROAT																															
A484	F		1	2																											
A485	F																														OK
A486	F																														OK
A487	O																														OK

JOINT	TYPE	U S	W D	I C	U R	U C	M M	I J	GN
		A B C D	A B C D E F G H I J K L	A B	C D	A B	A B	A B C	A B	
A488	O								
A489	F								OK
A490	O								OK
A491	F								OK
*GN:CONNECTION NOT REQUIRED PER DRAWING NOTE - BEAM DISCARDED									*
A492	F			R 4					
A493	F			R 4					
A494	F			R 4					
A495	F			R 4					
A496	F			R 4					
A497	F			R 4					
A498	F			R 4					
*WD-L: UNDERFILL			*R1	R 4					
A499	F			R 4					
A500	F			R 4					
A501	F			R 4					
A502	F	3 2		R 3				2	
A503	F			R 4					
A504	F			R 4		2 3			
A505	F			R 3		1			
A506	F			R 3					
A507	F			R 4	1				
A508	F			R 4					
A509	F			R 3	1				
A510	F			R 4					
A511	F								
A512	O	1						X	

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A513	D																														OK
A514	F																														OK
A515	F																														OK
A516	F																												X		
A517	F																												X		
A518	F																												X		
A519	F																												X		
A520	F																												X		
A521	F																												X		
A522	F																												X		
A523	F																												X		
A524	F																												X		
A525	F																												X		
A526	F																					4									
A527	F																	R	4			4									
A528	F																	R	4											1	
A529	F																	R	4			4									
A530	F																														OK
A531	F																														OK
A532	F																														OK
A533	F																														OK
A534	F							*	1									R	4												

*WD-C:DEFECT LENGTH IS 1/4''

A535	F			1														R	4												
A536	F			1				*	1									R	4			3									

*WD-C:DEFECT LENGTH IS 1''

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	UC A	UC B	MM	MM	IJ A	IJ B	GN
A537	F																			R 4												
A538	0																															OK
A539	F																															OK
A540	F																															
A541	0																															OK
A542	0																															OK
A543	0																															OK
A544	0																															OK
A545	0																															OK
A546	0																															OK
A547	0																															OK
A548	0																															OK
A549	0																															OK
A550	0																															OK
A551	0																															OK
A552	0																															OK
A553	0																															OK
A554	0																															OK
A555	0																															OK
A556	0																															OK
A557	0																															OK
A558	0																															OK
A559	0																															OK
A560	0																															OK
A561	0																															OK
A562	0																															OK

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	LJ A	LJ B	GN
A563	O																														OK
A564	O																														OK
A565	O																														OK
A566	O																														OK
A567	O																														OK
A568	O																														OK
A569	O																														OK
A570	O																														OK
A571	O																														OK
A572	O																														OK
A573	O																														OK
A574	O																														OK
A575	O																														OK
A576	O																														OK
A577	O																														OK
A578	O																														OK
A579	O																														OK
A580	O																														OK
A581	F		R 1																	R 4											
A582	F																			R 4											
A583	F																														OK
A584	F																														OK
A585	F		1	2																											
A586	F																														OK
A587	F			2																											

JOINT	TYPE	U S	W D	I C	U R	U C	M M	I J	GN
		A B C D	A B C D E F G H I J K L	A B	C D	A B	A B	A B C	A B	
A588	F									OK
A589	F									OK
A590	F									OK
A591	F									OK
A592	F						1			
A593	F									OK
A594	F									OK
A595	F	7								
A596	F									OK
A597	F									OK
A598	F									OK
A599	F									OK
A600	F									OK
A601	F									OK
A602	F	1	*1							

*WD-L: UNDERFILL

A603	F									OK
A604	F									OK
A605	F									OK
A606	F									OK
A607	F									OK
A608	F									OK
A609	F						* 4			

*MM-C:TEMPORARY CONSTRUCTION WELDS

A610	F						* 4			

*MM-C:TEMPORART CONSTRUCTION WELDS

A611	F						* 4			

*MM-C:TEMPORARY CONSTRUCTION WELDS

JOINT	TYPE	U	S	W	D	I	C	U	R	U	C	M	M	I	J	GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B		
A612	F																										*	4				
*MM-C:TEMPORARY CONSTRUCTION WELDS																																
A613	F																										*	4				
*MM-C:TEMPORARY CONSTRUCTION WELDS																																
A614	F																										*	4				
*MM-C:TEMPORARY CONSTRUCTION WELDS																																
A615	F																										*	4				
*MM-C:TEMPORARY CONSTRUCTION WELDS																																
A616	F																										*	4				
*MM-C:TEMPORARY CONSTRUCTION WELDS																																
A617	F				2						1																					2
A618	F			3																2												
A619	F			3																												
A620	F			1	2																											
A621	F									1																						
A622	F																				2											
A623	F																														OK	
A624	F																														OK	
A625	F																					1										
A626	F																														OK	
A627	F			1																												
A628	F																			R	1			*	X							
*MM-B:ONLY 1 OF THE 2 CLIP ANGLES IS INSTALLED																																
A629	F				1																											
A630	D				3																											
A631	D																														OK	
A632	F																														OK	
A633	F																										*	4				
*MM-C:TEMPORARY CONSTRUCTION WELDS																																

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JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UR D	UC A	UC B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
A634	F			1																								4		1	
A635	F																											2			
A636	F		1																	R	2										
A637	F																														OK
A638	F																														OK
A639	F																														OK
A640	F		2	1																R	4		6							
A641	F		2	8	* 1															R	3		4		* 1			R 2			
*US-D: 3/32 FIT-UP GAP; UC-A:DEFECT LENGTH IS 3																															
A642	F																			R	5		6							
A643	F		5	7																R	4		6							
A644	F		6																	R	5		5							
A645	F		1	1																R	4		6							
A646	F		2	8																R	2		4					R 2			
A647	F		7	4	3															R	1		6	1						
A648	F																												X		
A649	F																												X		
A650	F																												X		
A651	F																														OK
A652	F			1																											
A653	0																							1							
A654	F																														OK
A655	F																														OK
A656	F																														OK
A657	F																														OK
A658	F																														OK

*JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	U R C	U R D	U C A	U C B	M M A	M M B	I O A	I O B	GN
A659	F																											OK
A660	F																											OK
A661	F																											OK
A662	0																1											
A663	F																											OK
A664	F																									X		
A665	F																									X		
A666	F																											OK
A667	F																									X		
A668	F																											OK
A669	F																											OK
A670	F																									X		
*GN:PREVIOUSLY INSPECTED AS A669																												
A671	F																											OK
A672	0																											OK
A673	0																											OK
A674	0																											OK
A675	0																											OK
A676	0																											OK
A677	0																											OK
A678	0																											OK
A679	0																											OK
A680	0																											OK
A681	F																											OK
A682	F																									X		
A683	F																											

JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	I C C	U R D	U C A	U C B	M M A	M M B	M M C	I J A	I J B	GN
A684	F				3															R 4									
A685	F																												OK
A686	F																												OK
A687	F																										X		
A688	F																												OK
A689	F																												OK
A690	F																												OK
A691	F																												OK

..... END REPORT .....

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UC D	MM A	MM B	MM A	MM B	MM C	IJ A	IJ B	GN
R001	F		1	1																R 2									6
R002	F									R 4										R 4									
R003	F									4								1		R 3									
R004	F	R 1																		R 4									
R005	F		3																	R 4									
R006	F																	1		R 4									
R007	F									5										R 4		1							
R008	F																			R 4									
R009	F		R 2					1		6										R 4									
R010	F			2																R 4									
R011	F		R 2																	R 4									
R012	F		R 3																	R 4									
R013	F							* 1												R 3		2							4
*WD-C:DEFECT LENGTH IS 3/16 GN:ONE WELD WAS REJECTED FOR NO APPARENT REASON																													
R014	F			5																R 4		1							
R015	F		R 1	4																R 4									
R016	F		2	5													* 1			R 1									
*WDL- UNDER FILL																													
R017	F		R 1	R 1																R 4									
R018	F		R 2															1		R 3									
R019	F		R 1	4																R 4									
R020	F			2																R 4									
R021	F																			R 3								R 1	
R022	F		2	4																R 4									
R023	F																			R 2									
R024	F		1																	R 4									

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R025	F																			R 4											
R026	F																												X		
R027	F																												X		
R028	F																												X		
R029	F																												X		
R030	F		1	3				1	2											R 4											
R031	F		1	2																R 4											
R032	F																			R 4											
R033	F																			R 4											
R034	F	2								6										R 4											
R035	F	2	2		1															R 4			3								
R036	D																														OK
R037	F		3	2		1				R 4										R 4					1						
R038	F		7	2						8										R 1					1						
R039	F		5	5				1		7														1							
R040	F							1		2														1							
R041	F		2	2	1					6																					
R042	F		3							3																					
R043	F	1	4		1			1		6														1							
R044	F	R 1								R 1										R 1											
R045	F		R 1							R 2																			6		
R046	F		3							R 2										R 3									4		
R04.	F	R 1	1							3										R 4											
R048	F	R 1								R 2										R 2											
R049	F									R 4							* 1			R 4											

*WDL- UNDER FILL

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R050	F		6	2																										1	
R051	F		4	2																										1	
R052	F			1																1									R	2	
R053	F		4	1	2																										
R054	F		1	10																1					1						
R055	F		1	4																2											
R056	F		1	8	1			1																				R	1		
R057	F			4	2													*	1												
*WDL- COLD ROLL																															
R058	F																														OK
R059	F			3	1																	4				*	X				
*MM-B:PLATE NOT INSTALLED																															
R060	F			2															1												
R061	O																														OK
R062	O																														OK
R063	O																														OK
R064	O																														OK
R065	O																														OK
R066	O																														OK
R067	O																														OK
R068	O																														OK
R069	F		1	3																R	1										
R070	F		1	2															1	R	2										
R071	F		2																1	R	1										
R072	F			2																R	4										
R073	F																			R	3										

JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	I	J	K	L	I C A	I C B	U R C	U C A	U C B	M M A	M M B	M M C	I J A	I J B	GN
R074	F																	R 3									
R075	F																										OK
R076	F																										OK
R077	F																	R 3									
R078	F						1									* 1	1	R 4									
*WDL- COLD ROLL																											
R079	F	1	1	1			1											R 4				2					
R080	F																										OK
R081	F																	R 3									
R082	F																	R 2									
R083	F																										OK
R084	F																										OK
R085	F																	R 4									
R086	F																	R 4									
R087	F																	R 1									
R088	F																	R 1									
R089	F	R 3																R 4				1					
R090	F																1	R 2									
R091	F																	R 4									
R092	F																	R 4									
R093	F																	R 4									
R094	F																	R 4									
R095	F																	R 4									
R096	F	R 1														1		R 4		1							
R097	F	2					1											R 4									
R098	F																										OK

JOINT	TYPE	U S	W-D	I C	U R	U C	M M	I J	GN
		A B C D	A B C D E F G H I J K L	A B C D	A B	A B	A B C	A B	
R099	F	1		R 2				2	
R100	F								OK
R101	F	1		R 1					
R102	F	R 1 R 1		R 4	3				
R103	F	1	1	R 4					
R104	F		1	R 4					
R105	F								OK
R106	F			R 1					
R107	F								OK
R108	F			R 2				2	
R109	F			R 4					
R110	F			R 4					
R111	F								

*GN - PREVIOUSLY INSPECTED AS CONNECTION R139

R112	F						* X		

*MM-A - REPLACED BY REMOVABLE BEAM (BOLTED CONNECTION)

R113	F	9		R 3					
R114	F				R 1				
R115	F			R 4					
R116	F			R 4					
R117	F			R 1					
R118	F			R 4					
R119	F			R 4					
R120	F			R 4					
R121	F								OK
R122	F								OK
R123	D								OK

	JOINT.TYPE	U S				W D											I C		U R		U C		M M		I J	GD
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
R124	0																														
*VOID HANDRAIL																															*
R125	0																														
R126	F			4														R 2													OK
R127	F			1														R 4		1											
R128	F																	R 4													
R129	F		R 1		2															1											
R130	F			4														R 4													
R131	F																														OK
R132	F																	R 4													
R133	F																	R 4													
R134	F																	R 3													
R135	F																	R 4													
R136	F		R 1															R 4													
R137	F																	R 2		R 2											
R138	F		R 1															R 4													
R139	F																	R 4													
R140	F																	R 4													
R141	F			R 1														R 4													
R142	F		R 1															R 3													
R143	F		R 1								* 1							R 4													*
*WDC-LINE OF FUSION INDETERMINATE																															
R144	F		R 3															R 1													
R145 *F																		R 2													
R146	F																	R 1											R 1		
R147	F																	R 3													

JOINT	TYPE	A	B	C	D	E	F	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	GN
R148	F														R 4											
R149	F														R 4											
R150	F														R 4											
R151	F														R 4											
R152	F														R 2											6
R153	F														R 2			R 1								
R154	F		1												R 4											
R155	F																									*OK
*GN - PER NOTE ON DWG C-121-8576-05, CONNECTION HAS BEEN DELETED-THUS OK																										
R156	F																									*OK
*GN - PER NOTE ON DWG C-121-8576-05, CONNECTION HAS BEEN DELETED-THUS OK																										
R157	F		1		5										R 3		4									
R158	F														R 3										R 1	
R159	F														R 4											
R160	F		4	R 1											R 4											
R161	F					1		1										2							R 1	
R162	F		R 1	R 2	R 1										R 2											
R163	F		2			3												2								
R164	F		R 2												R 4											
R165	F	1	4																							
R166	F														R 2											
R167	F		2												R 2			R 2	1							
R168	F		R 2	R 1			1											R 1	1							
R169	F				4																		3			
R170	F				4																		3			
R171	F				4																		3			
R172	F				4																		3			

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JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R173	F		R 1																	R 1											
R174				3																								3			
R175																													X		
R176																													X		
R177	F		R 4	4																R 4											
R178	F		R 3	2														1		R 3											
R179	F			R 1																R 4											
R180	F																														OK
R181	F																														OK
R182	D																														OK
R183	F																														OK
R184	F																														OK
R185	F																														OK
R186	F																														OK
R187	F																														OK
R188	F																														OK
R189	F																														OK
R190	F																														OK
R191	F																														OK
R192	F																														OK
R193	F																														OK
R194	F																														OK
R195	F																													6	
R196	F																														OK
R197	F																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UC D	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GR
R198	F																												OK
R199	0																												13
R200	0																												7
R201	0																												OK
R202	0																												OK
R203	0																												OK
R204	0																												OK
R205	0																												OK
R206	0																												OK
R207	0																												OK
R208	0																												OK
R209	0																												OK
R210	0																												OK
R211	0																												OK
R212	0																												OK
R213	0																												9
R214	0																												13
R215	F																												OK
R216	F																												OK
R217	F																												OK
R218	F																												OK
R219	F																												OK
R220	F																												OK
R221	F																												OK
R222	F																												1
R223	F																												

1

R 2

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UC C	UC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GH
R224	0																												X		
R225	0																													9	
R226	0																														OK
R227	0																													3	
R228	0																														OK
R229	0																														OK
R230	0																														OK
R231	0																														OK
R232	0																														OK
R233	0																														OK
R234	0																														OK
R235	0																													12	
R236	0																													12	
R237	0																													12	
R238	0																													12	
R239	0																													9	
R240	F																													1	
R241	F																														OK
R242	F																													1	
R243	F																													1	
R244	F										1																			1	
R245	F																													1	
R246	F																													1	
R247	F																													1	
R248	F										1																			1	

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R249	F																														OK
R250	F																														OK
R251	F																														OK
R252	F										1																				
R253	F																													1	
R254	F																													1	
R255	O																													7	
R256	F																														OK
R257	F																														OK
R258	F																														OK
R259	F																														OK
R260	F																														OK
R261	F																														OK
R262	F																														OK
R263	F																														OK
R264	F																														OK
R265	F																														OK
R266	F																														OK
R267	F																														OK
R268	F																														OK
R269	F																														OK
R270	F																														OK
R271	F																													4	
R272	F																													3	
R273	F																														OK
R274	F																														OK

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JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R275	F																														5
R276	F																														OK
R277	F																														OK
R278	F																														OK
R279	F																														OK
R280	F																														OK
R281	F																														OK
R282	F																														OK
R283	F																														OK
R284	F																														OK
R285	F																														OK
R286	O																														OK
R287	F																														OK
R288	F																														OK
R289	F																														OK
R290	F																														OK
R291	F																														OK
R292	F																														OK
R293	F																														OK
R294	F																														OK
R295	F																														OK
R296	F																														OK
R297	F																														OK
R298	F																														OK
R299	F																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R300	F																														OK
R301	F																														OK
R302	F																														OK
R303	F																														OK
R304	F																														OK
R305	O																														OK
R306	O																														OK
R307	O																														OK
R308	O																														OK
R309	F																														OK
R310	F																														OK
R311	F																														OK
R312	F																														OK
R313	F																														OK
R314	F																														OK
R315	F																														OK
R316	F																														OK
R317	F																														OK
R318	F																														OK
R319	F																														OK
R320	F																														OK
R321	F																														OK
R322	F																														OK
R323	F																														OK
R324	F																														OK
R325	F																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R326	0																													OK
R327	0																													OK
R328	0																													OK
R329	0																													OK
R330	0																													OK
R331	0																													OK
R332	0																													OK
R333	0																													OK
R334	0																													OK
R335	0																													OK
*WD-B:PENETRATION HAS BEEN ACHIEVED BY MELT THROUGH ONLY										* 1																				
R336	0																													OK
R337	0																													OK
R338	0																													OK
*WD-B:PENETRATION HAS BEEN ACHIEVED BY MELT THROUGH ONLY										* 1																				
R339	0																													OK
R340	0																													OK
R341	0																													OK
R342	0																													OK
R343	0																													OK
R344	0																													OK
R345	0																													OK
R346	0																													OK
R347	0																													OK
R348	0																													OK
R349	0																													OK
R350	0																													OK

JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	U R C D	U C A	U C B	M M A	M M B	M M C	I J A	I J B	GR
R351	0																											OK
R352	0																											OK
R353	0																											OK
R354	0																											OK
R355	0																											OK
R356	0																											OK
R357	0																											OK
R358	0																											OK
R359	0																											OK
R360	0																											OK
R361	0																											OK
R362	0																											
*WDL: UNDERFILL/UNDERFLUSH																	* 1											
R363	0						* 1																					
*WD-B:INCOMPLETE PENETRATION																												
R364	0																											OK
R365	0																											OK
R366	0																											OK
R367	0																											OK
R368	0																											OK
R369	0																											OK
R370	0						* 1																					
*WD-B:PENETRATION HAS BEEN ACHIEVED BY MELT THROUGH ONLY																												
R371	0																											OK
R372	0																											OK
R373	0																											OK
R374	0																											OK
R375	0																											OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R376	0																														OK
R377	0																														OK
R378	0																														OK
R379	0																														OK
R380	0																														OK
R381	0																														OK
R382	0																														OK
R383	0																														OK
R384	0																														OK
R385	0																														OK
R386	0																														OK
R387	0																														OK
R388	0																									* 1					
*MM-A: SHIM PLATE ADDED																															
R389	0																														OK
R390	0																														OK
R391	0																														OK
R392	0																														OK
R393	0																														OK
R394	0																														OK
R395	0																									* 1					
*MM-A: SHIM PLATE ADDED																															
R396	0																														OK
R397	0																														OK
R398	0																														OK
R399	0																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R400	0																														OK
R401	0																														OK
R402	0																														OK
R403	0																														OK
R404	0																														OK
R405	0																														OK
R406	0																														OK
R407	0																														OK
R408	0																														OK
R409	0																														OK
R410	0																														OK
R411	0																														OK
R412	0																														OK
R413	0																														OK
R414	0																														OK
R415	0																														OK
R416	0			1																											
R417	0						* 1																								
*WD-B:PENETRATION HAS BEEN ACHIEVED BY MELT THROUGH ONLY																															
R418	0																														OK
R419	0																														OK
R420	0																														
R421	0																														OK
R422	0						* 1																								
*WD-B:PENETRATION HAS BEEN ACHIEVED BY MELT THROUGH ONLY																															
R423	0																														OK
R424	0																														OK

JOINT	TYPE	U S				W D											I C			U R		U C		M M			I	J	GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
R425	D																														
R426	F																														OK
R427	D																														OK
R428	D																														OK
R429	F																														OK
R430	F																														OK
R431	F																														OK
R432	F																														OK
R433	F																														OK
R434	F																														OK
R435	F																														OK
R436	F																														OK
R437	F																														OK
R438	F																														OK
R439	F																														OK
R440	F																														OK
R441	F																														OK
R442	F																														OK
R443	F																														OK
R444	F			1																											
R445	F																														OK
R446	F																														OK
R447	F																														OK
R448	F																														OK
R449	F																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UR D	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R450	F																												OK
R451	F																												OK
R452	F																												OK
R453	F																												OK
R454	F																												OK
R455	F																												OK
R456	F		1																										
R457	F																												OK
R458	F																												OK
R459	F																												OK
R460	F																												OK
R461	F																												OK
R462	D																												OK
R463	D																												OK
R464	D																												OK
R465	D																												OK
R466	D																												OK
R467	D																												OK
R468	D																												OK
R469	D																												OK
R470	D																												OK
R471	D																												OK
R472	D																												OK
R473	D																												OK
R474	D																												OK
R475	D																												OK

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JOINT	TYPE	U S A	U S B	U S C	U S D	U D A	U D B	U D C	U D D	U D E	U D F	U D G	U D H	U D I	U D J	U D K	U D L	IC A	IC B	UR C	UR D	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R476	0																												OK
R477	0																												OK
R478	0																												OK
R479	0		1																										
R480	0																												OK
R481	0																												OK
R482	0																												OK
R483	0																												OK
R484	0																												OK
R485	0																												OK
R486	0																												OK
R487	0																												OK
R488	0																												OK
R489	0																												OK
R490	0																												OK
R491	0																												OK
R492	0																												OK
R493	0																												OK
R494	0																												OK
R495	0																												OK
R496	0																												OK
R497	0																												OK
R498	0																												OK
R499	0																												OK
R500	0																												OK

JOINT	TYPE	U	S	W	D	I	C	U	R	U	C	M	M	I	J	GN
		A B C D	A B C D E F G H I J K L	A	B	C	D	A	B	A	B	A	B	C	A	B	
R501	0																OK
R502	0																OK
R503	0																OK
R504	0																OK
R505	0																OK
R506	0																*

*GN:VOID-NO WELD REQUIRED

R507	0																OK
R508	0																OK
R509	0																OK
R510	0																OK
R511	0																OK
R512	0																OK
R513	0			* 1													

*WD-B:PENETRATION HAS BEEN ACHIEVED BY MELT THROUGH ONLY

R514	0																OK
R515	0																OK
R516	0																OK
R517	0																OK
R518	0																OK
R519	0																OK
R520	0																OK
R521	0																OK
R522	0																OK
R523	0																OK
R524	0																OK
R525	0																*

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
*GN:VOID-NO WELD REQU'' D																															
R526	0																														OK
R527	0																														OK
R528	0																														OK
R529	0																														OK
R530	0																														OK
R531	0																														OK
R532	0																														OK
R533	0																														OK
R534	0																														OK
R535	0																														OK
R536	0																														OK
R537	0																														OK
R538	0																														OK
R539	0																														OK
R540	0																														OK
R541	0																														OK
R542	0																														OK
R543	0																														OK
R544	0																														OK
R545	0																														OK
R546	0																														OK
R547	0																														OK
R548	0																														OK
R549	0																														OK
R550	0																														OK

JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	U R C	U C D	M M A	M M B	M M A	M M B	M M C	I J A	I J B	GN
R551	0																												OK
R552	0																												OK
R553	0																												OK
R554	0																												OK
R555	0																												OK
R556	0																												OK
R557	0																												OK
R558	0																												OK
R559	0																												OK
R560	0																												OK
R561	0																												OK
R562	0																												OK
R563	0																												OK
R564	0																												OK
R565	0																												OK
R566	0																												OK
R567	0																												OK
R568	0																												OK
R569	0																												OK
R570	0																												OK
R571	0																												OK
R572	0																												OK
R573	0																												OK
R574	0																												OK
R575	0																												OK

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UR D	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R576	O																												OK
R577	O																												OK
R578	O																												OK
R579	O																												OK
R580	O																												OK
R581	O																												OK
R582	O																												OK
R583	O																												OK
R584	O																												OK
R585	F																				3					* 3			
*MM-C:WELDS WERE MADE IN WRONG LOCATION																													
R586	F																												OK
R587	F																												OK
R588	F																												OK
R589	F																												OK
R590	O																												OK
R591	O																												OK
R592	O																												OK
R593	O																												OK
R594	O																												OK
R595	O		2																										
R596	O		2																										
R597	O			1																									
R598	O		1																										
R599	O																												OK
R600	O		1																		* 2								

JOINT	TYPE	U S	W D	I C	U R	U C	M M	I J	GN
		A B C D	A B C D E F G H I J K L	A B	C D	A B	A B	A B C	A B	
R601	D	1								
R602	F									OK
R603	F									OK
R604	F									5
R605	F									* 2
*IJB-50% VISUALLY INACCESSIBLE										
R606	F									4
R607	F									* 2
*IJB-50% VISUALLY INACCESSIBLE										
R608	F									OK
R609	F									OK
R610	F									OK
R611	F									OK
R612	F	1	1							* 1
*IJB-50% INACCESSIBLE										
R613	F		1							
R614	F		1							1
R615	F		1							
R616	F		1			1				
R617	F		1							* 2
*IJB-50% INACCESSIBLE										
R618	F		1							1
R619	F	1	2							5
R620	F									5
R621	F									* 1
*IJB-50% INACCESSIBLE										
Ro22	F									5
R623	F									* 2
*IJB-50% INACCESSIBLE										

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UR D	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R624	F																												OK
R625	F																												OK
R626	F																												OK
R627	F																											1	
R628	F						2																						
R629	F						2																						
R630	F		1	2			2																						
R631	F						2																						
R632	F						2																					* 2	
*IJB-50% INACCESSIBLE																													
R633	F						2																						
R634	F						2																					5	
R635	F						2																					5	
R636	O																	1										1	
R637	O																										X		
R638	O																										X		
R639	O		1	1															4										
R640	O																												OK
R641	O																												OK
R642	O																											6	
R643	O																												OK
R644	O																				1								
R645	O																				1								
R646	O																												OK
R647	O																												OK
R648	O																												OK

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R649	0																														OK
R650	0																														OK
R651	0																														OK
R652	0																														OK
R653	F																														OK
R654	F																														OK
R655	F		R 3																R 4												
R656	F		R 2																R 3												
R657	F																					R 2									
R658	F		1	R 1															R 1												
R659	F		R 2																												
R660	F																					R 1									
R661	F		1																												
R662	F																														OK
R663	F																														OK
R664	F																														OK
R665	F																								1						
R666	F																								1						
R667	F																							1							
R668	F																														OK
R669	0																														OK
R670	0																														OK
R671	F																														OK
R672	F																														OK
R673	F																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UR D	UC A	UC B	MM A	MM B	IJ C	IJ A	IJ B	GAP
R674	F																												OK
R675	F																												OK
R676	F																												OK
R677	O																												OK
R678	O																												OK
R679	O																												OK
R680	F						1																						
R681	F																	* 2											

*IC-A:2 GAPS EXIST DUE TO NAIL HOLES

R682	F																												OK
R683	F																												OK
R684	F																												OK
R685	F						1																						
R686	F																												OK
R687	F																												OK
R688	F																												OK
R689	F																												OK
R690	F																		1										
R691	F																		1										
R692	F																												OK
R693	F																												OK
R694	F																												OK
R695	F																												OK
R696	F																												OK
R697	F																												OK
R698	F																												OK

JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	I C C	I C D	U R A	U R B	U C A	U C B	M M A	M M B	M M C	I J A	I J B	GR
R699	F																														OK
R700	F																														OK
R701	F																			R 2											
R702	F																			R 4											
R703	F																			R 1											
R704	F																			R 2											
R705	F																			R 3			R 1								
R706	F		R 1																	R 8											
R707	F																			R 4											
R708	F			R 1																R 3			R 2								
R709	F		R 1																	R 3			R 1								
R710	F																														OK
R711	F																														OK
R712	F																														OK
R713	F																														OK
R714	F																														OK
R715	F																														OK
R716	F																														OK
R717	F																														OK
R718	F																														OK
R719	F																														OK
R720	F																														OK
R721	F																														OK
R722	F																														OK
R723	F																														OK
R724	F																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R725	F																														OK
R726	F																														OK
R727	F																														OK
R728	F																														OK
R729	F																														OK
R730	F																														OK
R731	F																														OK
R732	F																														OK
R733	F																														OK
R734	F																														OK
R735	F																														OK
R736	0																														OK
R737	0																														OK
R738	0			2																											
R739	0			2																											
R740	0			2																											
R741	0			2																											
R742	0			2																											
R743	0			2																											
R744	0			2																											
R745	0			2																											
R746	0																														OK
R747	0																				2										
R748	0																														OK
R749	0																														OK

JOINT	TYPE	U S				W D										I C		U R		U C		M M		I J		GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
R750	0																														OK
R751	0																														OK
R752	0																														OK
R753	0																														OK
R754	0																														OK
R755	0																														OK
R756	0																														OK
R757	0																														OK
R758	0																														OK
R759	0																														OK
R760	0																														OK
R761	0																														OK
R762	0																														OK
R763	0																														OK
R764	0																														OK
R765	0																														OK
R766	0																														OK
R767	0																														OK
R768	0																														OK
R769	0																														OK
R770	0																														OK
R771	0																														OK
R772	0																														OK
R773	0																														OK
R774	0																														OK
R775	0																														OK

JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	U R C	U R D	U C A	U C B	M M A	M M B	M M C	I J A	I J B	GN
R776	0																												OK
R777	0																												OK
R778	0																												OK
R779	0																												OK
R780	0		1																										
R781	0																												OK
R782	0																												OK
R783	0																												OK
R784	0																												OK
R785	0																												OK
R786	0																												OK
R787	0																												OK
R788	0																												OK
R789	0																												OK
R790	0																												OK
R791	0																												OK
R792	0																												OK
R793	0																												OK
R794	0																												OK
R795	0																												OK
R796	0																												OK
R797	0																												OK
R798	0																												OK
R799	0																												OK
R800	0																												OK

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JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	U R C	U R D	U C A	U C B	U C A	U C B	M M A	M M B	M M C	I J A	I J B	GR
R301	0																														OK
R801	0																														OK
R802	0																														OK
R803	0																														OK
R804	0																														OK
R805	0																														OK
R806	0																														OK
R807	0																														OK
R808	0		1																												
R809	0																														OK
R810	0																											2			
R811	0																											2			
R812	0																											2			
R813	0																											2			
R814	0																											2			
R815	0																											2			
R816	0																											2			
R817	0																											2			
R818	0																											2			
R819	0																											2			
R820	0																											2			
R821	0																											2			
R822	0																											2			
R823	0																											2			
R824	0																											2			
R825	0																											2			

JOINT	TYPE	US A	US B	US C	US D	ADD A	ADD B	ADD C	ADD D	ADD E	ADD F	ADD G	ADD H	ADD I	ADD J	ADD K	ADD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GR
R826	0																											2			
R827	0																											2			
R828	0																											2			
R829	0																											2			
R830	0																											2			
R831	0																											2			
R832	0																											2			
R833	0																											2			
R834	0																											2			
R835	0																											2			
R836	0																											2			
R837	0																											2			
R838	0																											2			
R839	0																											2			
R840	0																											2			
R841	0																											2			
R842	0																											2			
R843	0																											2			
R844	0																											2			
R845	0																											2			
R846	0																											2			
R847	0																											2			
R848	0																											2			
R849	0																											2			
R850	0																											2			

JOINT	TYPE	UT				WD											IC				UR			UC			MM			IJ		GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B		
R851	0																											2				
R852	0																											2				
R853	0																											2				
R854	0																											2				
R855	0																											2				
R856	0																											2				
R857	0																											2				
R858	0																											2				
R859	0																											2				
R860	0																											2				
R861	0																											2				
R862	0																											2				
R863	0																											2				
R864	0																											2				
R865	0																											2				
R866	0																											2				
R867	0																											2				
R868	0																											2				
R869	0																											2				
R870	F																														OK	
R871	F																			R 2												
R872	F																														OK	
R873	F																			2												
R874	F																														OK	
R875	F																													1			
R876	F																										R 1					

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R877	F																						1								
R878	F																														OK
R879	F																														OK
R880	F																														OK
R881	F																														OK
R882	O																														OK
R883	F																														OK
R884	F																														OK
R885	F																														OK
R886	F																						2								
R887	F																														OK
R888	F																														OK
R889	F																													* 1	
*IJ-B;GROUND FLUSH AND PAINTED																															
R890	F																														OK
R891	F																														OK
R892	F																														OK
R893	F																														OK
R894	F																														OK
R895	F																														OK
R896	F																														OK
R897	F																														OK
R898	O																														*
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET																															
R899	O																														*
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET																															
R900	O																														*

```
*        .                                                         .
*JOINT.TYPE      U S        .                   W D                .      I C      . U R  . U C  .  M M   . I J   GN
*    .     A   B   C   D . A   B   C   D   E   F   G   H   I   J   K   L . A   B   C   D . A   B . A   B . A   B   C . A   B
*=====.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R901  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R902  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R903  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R904  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R905  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R906  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R907  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R908  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R909  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R910  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R911  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R912  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R913  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R914  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTIGN NOT COMPLETED YET
*
 R915                                                                                                                     * 1
*IJ-B:GROUND FLUSH AND PAINTED
*
 R916  0                                                                                                                    *
*GN:EQUIPMENT HATCH DOOR-CONSTRUCTION NOT COMPLETED YET
*
 R917  F                                                                                                                    OK
```

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UC C	UC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R918	F																														OK
R919	F																														OK
R920	F																														OK
R921	F																														OK
R922	F																														OK
R923	F																														OK
R924	F																														OK
R925	O																														OK
R926	O																														OK
R927	F																														OK
R928	F																														OK
R929	O																														OK
R930	O																														OK
R931	O																														OK
R932	O																														OK
R933	F																														OK
R934	F																														OK
R935	F																														OK
R936	F																														OK
R937	F																														OK
R938	O																														OK
R939	O																														OK
R940	O																														OK
R941	O																														OK
R942	O																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UR D	UC A	UC B	MA A	MA B	MA C	IJ A	IJ B	GR
R943	0																												OK
R944	0																												OK
R945	F		R 1																R 1						2				
R946	0																												OK
R947	F		4																						2				
R948	0																												OK
R949	F																									X			
R950	F																									X			
R951	F																									X			
R952	F																									X			
R953	F																									X			
R954	F																									X			
R955	F																												OK
R956	F																												OK
R957	F																												OK
R958	F																												OK
R959	F		2																										
R960	F		1																										
R961	F																									X			
R962	F		R 1																										
R963	F																									X			
R964	F																												OK
R965	F																												OK
R966	F																									X			
R967	F																									X			
R968	F																									X			

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
R969	F																												X		
R970	F																												X		
R971	F																												X		
R972	F																												X		
R973	F																														OK
R974	F																					1									OK
R975	F		3																												
R976	F		R 1																												
R977	F	1	R 2																R 1												5
R978	F		4	1																	2										
R979	F																		1												
R980	F																				2										
R981	F																				2										
R982	F																		1												
R983	F																				2										
R984	F																				2										
R985	F																		1												
R986	O			2																											
R987	O																														OK
R988	O		1	1																											
R989	O		2	2																											
R990	O																														OK
R991	O																											2			
R992	O																											2			
R993	F																														OK

JOINT	TYPE	U S	W D	I C	U R	U C	M M	I J	GN
		A B C D	A B C D E F G H I J K L	A B	C D	A B	A B	A B C	A B	
R994	F									OK
R995	F			R 4						
R996	F									OK
R997	F			R 1						
R998	F				R 2					
R999	F				R 2					
RA	F	3	1	R 1					* 1	
*IJ B:UNABLE TO VERIFY SIZE-APPEARS UNDERSIZED										
RB	F	R 2		R 4						
RC	F				2					
RD	F									OK
RE	F									OK
RF	F	3 2			1		1			
RG01	O									OK
RG02	O									OK
RG03	O									OK
RG04	O									OK
RG05	O									OK
RG06	O									OK
RG07	O									OK
RG08	O									OK
RG09	O									OK
RG10	O									OK
RG11	O									OK
RG12	O									OK
RG13	O	2		2						

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
RG14	0																														OK
RG15	0																														OK
RG16	0																														OK
RG17	0																														OK
RG18	0																														OK
RG19	0																														OK
RG20	0																														OK
RG21	0																														OK
RG22	0																														OK
RG23	0																														OK
RG24	0			1																1											
RG25	0																														OK
RG26	0			1																1											
RG27	0			1																1											
RG28	0																														OK
RG29	0			1																											
RG30	0		2	1																2											
RG31	0			1																1											
RG32	0																														OK
RG33	0																														OK
RG34	0																														OK
RG35	0																														OK
RG36	0																														OK
RG37	0																														OK
RG38	0																														OK
RG39	0																														OK

JOINT	TYPE	UA	UB	UC	UD	SA	SB	SC	SD	SE	WDF	SG	SH	SI	SJ	SK	SL	ICA	ICB	ICC	ICD	URA	URB	UCA	UCB	MMA	MMB	MMC	IJA	IJB	GR
RG65	0																														OK
RG66	0																														OK
RG67	0																														OK
RG68	0																														OK
RG69	0		1																1												
RG70	0																														OK
RG71	0		1																2			1		1						
RG72	0																														OK
RG73	0		1																1												
RG74	0		2																1			1		1						
RG75	0																														OK
RG76	0		1																1			1								
RG77	0																														OK
RG78	0																														OK
RG79	0																														OK
RG80	0																														OK
RG81	0																														OK
RG82	0																														OK
RG83	0																														OK
RG84	0																														OK
RG85	0																														OK
RG86	0																														OK
RG87	0																														OK
RG88	0																														OK
RG89	0																														OK
RG90	0																														OK

JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	I C C	I C D	U R A	U R B	U C A	U C B	M M A	M M B	M M C	I J A	I J B	GN
RG91	0																														OK
RG92	0																														OK
RG93	0																														OK
RG94	0		1																	1											
RG95	0																														OK
RG96	0																														OK
RG97	0																														OK
RG98	0		2																	2											
RG99	0		1																	1											
RH01	0																														OK
RH02	0																														OK
RH03	0																														OK
RH04	0																														OK
RH05	0																														OK
RH06	0																														OK
RH07	0																														OK
RH08	0																														OK
RH09	0																														OK
RH10	0																														OK
RH11	0																														OK
RH12	0																														OK
RH13	0																														OK
RH14	0																														OK
RH15	0																														OK
RH16	0																														OK

JOINT	TYPE	U	S	W	D	I	C	U	R	U	C	M	M	I	J	GN
		A B C D		A B C D E F G H I J K L		A	B	C	D	A	B	A	B	A	B	C	A	B	
RH17	0																		OK
RH18	0																		OK
RH19	0																		OK
RH20	0																		OK
RH21	0																		OK
RH22	0																		OK
RH23	0																		OK
RH24	0																		OK
RH25	0																		OK
RH26	0																		OK
RH27	0																		OK
RH28	0																		OK
RH29	0																		OK
RH30	0																		OK
RH31	0																		OK
RH32	0																		OK
RH33	0																		OK
RH34	0																		OK
RH35	0																		OK
RH36	0																		OK
RH37	0																		OK
RH38	0																		OK
RH39	0																		OK
RH40	0																		OK
RH41	0																		OK
RH42	0																		OK

REACTOR BUILDING

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JOINT	TYPE	U S				W D											I C				U R		U C			M M			I J		GH
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
RH43	0																														OK
RH44	0																														OK
RH45	0																														OK
RH46	0																														OK
RH47	0																														OK
RH48	0																														OK
RH49	0																														OK
RH50	0																														OK
RH51	0																														OK
RH52	0																														OK
RH53	0																														OK
RH54	0																														OK
RH55	0																														OK
RH56	0																														OK
RH56	0																														OK
RH57	0																														OK
RH58	0																														OK
RH59	0																														OK
RH60	0																														OK
RH61	0																														OK
RH62	0																														OK
RH63	0																														OK
RH64	0																														OK
RH65	0																														OK
RH66	0																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
RH67	0																														OK
RH68	0																														OK
RH69	0																														OK
RH7Ø	0																														OK
RH71	0																														OK
RH72	0																														OK
RH73	0																														OK
RH74	0																														OK
RH75	0																														OK
RH76	0																														OK
RH77	0																														OK
RH78	0																														OK
RH79	0																														OK
RH8Ø	0																														OK
RH81	0																														OK
RH82	0																														OK
RH83	0																														OK
RH84	0																														OK
RH85	0																														OK
RH86	0																														OK
RH87	0																														OK
RH88	0																														OK
RH89	0																														OK
RH9Ø	0																														OK
RH91	0																														OK
RH92	0																														

REACTOR BUILDING

F004532

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JOINT	TYPE	U S				W D											I C				U R		U C			M M			I J	GH
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
RH93	0																														OK
RH94	0																														OK
RH95	0																														OK
RH96	0																														OK
RH97	0																														OK
RH98	0																														OK
RH99	0																														OK
RI01	0																														OK
RI02	0																														OK
RI03	0																														OK
RI04	0																														OK
RI05	0																														OK
RI06	0		1																												
RI07	0																														OK
RI08	0																														OK
RI09	0																														OK
RI11	0		2																												
RI12	0		2	1																											
RI13	0		1																												
RI14	0		1	1																											
RI15	0																														OK
RI16	0																														OK
RI17	0																														OK
RI18	0																														OK
RI19	0																														OK

REACTOR BUILDING

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UC D	MM A	MM B	MM A	MM B	MM C	JJ A	JJ B	GN
RI10	O																												OK
RI20	O																												OK
RI21	O																												OK
RI22	O																												OK
RI23	O																												OK
RI24	O																												OK
RI25	O																												OK
RI26	O																												OK
RI27	O																												OK
RI28	O																												OK
RI29	O																												OK
RI30	O																												OK
RJ01	O																												OK
RJ02	O																												OK
RJ03	O																												OK
RJ04	O																												OK
RJ05	F																												OK
RJ06	F																												OK
RJ07	O																												
RJ08	O																												OK
RJ09	O																												OK
RJ10	O																												OK
RJ11	O																												OK
RJ12	O																												OK
RJ13	O																												OK
RJ14	O																												

JOINT	TYPE	U	S	U	D	I	C	U	R	U	C	M	M	I	J	GN
		A	B	C	D	A	B	C	D	E	F	S	H	I	J	K	L	A	B	C	D	A	R	A	B	A	B	C	A	B	
RJ15	O			1																										
RJ16	O																													OK
RJ17	O																													OK
RJ18	O																												X	
*IJ-A:INCORE PIT PORT																														
RJ19	O																													OK
RJ20	O																													OK
RJ21	O																													OK
RJ22	F																													OK
RJ23	O																													OK
RJ24	O																													OK
RJ25	F																													
*GN:PREVIOUSLY INSPECTED AS RJ64																														
RJ26	O																												X	
*IJ-A:INCORE PIT PORT																														
RJ27	O																													OK
RJ28	O																													OK
RJ29	O																													OK
RJ30	O																													OK
RJ31	O																													OK
RJ32	O																													OK
RJ33	F																													OK
RJ34	O																													OK
RJ35	O																													OK
RJ36	F																													OK
RJ37	O																													OK
RJ38	O																												X	

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*JOINT	TYPE	US				WD												IC				UR		UC		MM			IJ		GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
*IJ-A:INCORE PIT																															
RJ39	O																												* X		
*IJ-A:INCORE PIT PORT																															
RJ40	F																														OK
RJ41	F																														OK
RJ42	F																														OK
RJ43	F																													1	
RJ44	F																														OK
RJ45	F																														OK
RJ46	F																														OK
RJ47	F																														OK
RJ48	F																														OK
RJ49	F																														OK
RJ50	F																														OK
RJ51	F																														OK
RJ52	F																					* 2								3	
*UR-A:INACCESSIBLE FOR ACCURATE MEASUREMENT																															
RJ53	O																														OK
RJ54	F																					* 2								3	
*UR-A:INACCESSIBLE FOR ACCURATE MEASUREMENT																															
RJ55	F																					2								3	
RJ56	O																														OK
RJ57	F																					* 2								3	
*UR-A:INACCESSIBLE FOR ACCURATE MEASUREMENT																															
RJ58	F		1																												
RJ59	F																														OK
RJ60																															*
*GN:NUMBER NOT ASSIGNED																															

JOINT	TYPE	U S	Ø D	I C	U R	U C	M M	I J	GN
		A B C D	A B C D E F G H I J K L	A B C D	A B	A B	A B C	A B	
RJ61	0							* X	
*IJ-A:INCORE PIT PORT									
RJ62	0							* X	
*IJ-A:INCORE PIT PORT									
RJ63	F								OK
RJ64	F			R 2					
RJ65	F								OK
RJ66	F								OK
RJ68	0								OK
RJ69	0								OK
RJ70	0								OK
RJ71	0							* X	
*IJ-A:INCORE PIT									
RJ72	0							* X	
*IJ-A:INCORE PIT PORT									
RJ73	F								OK
RJ74	F								OK
RJ75	F								OK
RJ76	0								OK
RJ77	0								OK
RJ78	0			1	1				
RJ79	F								OK
RJ80	F								OK
RJ81	F								OK
RJ82	F								OK
RJ83	0						9		
RJ84	0						9		
RJ85	0						9		

```
*JOINT.TYPE        U S       .                      W D                                   .       I C     . . U R . U C .    M M    . I J  GN
*      .      A   B   C   D . A   B   C   D   E   F   G   H   I   J   K   L . A   B   C   D . A   B . A   B . A   B   C . A   B
*
 RJ86   O                                                                                                               9
*
 RJ87   O                                                                                                           * X
*MM-B:INCORE INSTRUMENTATION TUBE SUPPORT BRACKET NOT INSTALLED
*
 RJ88   O                                                                                                           * X
*MM-B:INCORE INSTRUMENTATION TUBE SUPPORT BRACKET NOT INSTALLED
*
 RJ89   O                                                                                                           * X
*MM-B:INCORE INSTRUMENTATION TUBE SUPPORT BRACKET NOT INSTALLED
*
 RJ90   O                                                                                                           * X
*MM-B:INCORE INSTRUMENTATION TUBE SUPPORT BRACKET NOT INSTALLED
*
 RJ91   O                                                                                                                       1
*
 RJ92   O                                                                                                                       1
*
 RJ93   O                                                                                                           * X
*MM-B:PLATE NOT INSTALLED
*
 RJ94   O                                                                                                           * X
*MM-B:PLATE NOT INSTALLED
*
                    ..... END REPORT .....
```

JOINT	TYPE	A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	C	A	B	GN
CA	F																			R 4									
CB	F																												OK
CC	F																												OK
CD	F																			R 4									
CD	F			2																R 4									
CF	F			2																R 4									
C001	F																										X		
C002	F			R	2	2			R	1										R 4		1		R 1					
C003	F		R	1	R 1			3			2									R 4		2							
C004	F				3	2					1									5		1		2					
C005	F			R	2															R 5		1						*	2
*IJB-APPEARS UNDERSIZED																													
C006	F			R	1															R 3		1						10	
C007	F							1												R 2								10	
C008	F			R	2			1		R	1									R 5				1					
C009	F			2	2		R	1												R 5		3	1						
C010	F																										X		
C011	F		R	1	R 2															R 5		1						2	
C012	F			?	2															R 4									
C013	F					1																8			R 2				
C014	F		2																			1			R 2				
C015	F																			7								2	
C016	F																			R 6								2	
C017	F																			R 4					* X				
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																													
C018	F																										X		

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JG	NT.TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
C019	F		R 1																	R 4											
C020	F	R 2																		R 3											
C021	F																			R 4											
C022	F		R 1	R 1	2			1		R 3										R 5			2		1			2			
C023	F			R 2		2		1		7										R 4			1		1			1			
C024	F			1																R 4							* X				
*MM B:BEAM SEAT NOT INSTALLED																															
C025	F					3		4		4										R 4					1		* X				
*MM B:BEAM SEAT NOT INSTALLED																															
C026	F																												X		
C027	F			2		R 1		R 1												R 4								2		2	
C028	F																			R 4								2		4	
C029	F																			R 4								2			
C030	F				1					R 2										R 2								1		9	
C031	F			1		3		3												R 4			2		R 1					2	
C032	F																												X		
C033	F																			R 4											
C034	F																						3								
C035	F		3	3						R 2										R 5		1	1	1							
C036	F		R 1							R 4										R 4							* X				
*MM B:BEAM SEAT NOT INSTALLED																															
C037	F									R 4										R 4							* X				
*MM B:BEAM SEAT NOT INSTALLED																															
C038	F		1	2																R 6		1	2								
C039	F		1	R 1																R 6		* 2	6								
C040	F																			R 4							* X				
*MM B:BEAM SEAT NOT INSTALLED																															
C041	F		3																	R 4			2								

JOINT.TYPE	U	S	W	D	I	C	U	R	U	C	M	M	I	J	GN
	A B C D	A B C D E F G H I J K L	A B	C D	A	B	A	B	A	B	C	A	B		
C042 F				R 4						* X					
*MM-B:BEAM SEAT NOT INSTALLED															
C043 F				R 5		3									
C044 F															
*GN-NO REJECTED WELDS CLIP TO WEB IS A BOLTED CONNECTION															
C045 F R 2				R 4											
C046 F				R 5		3									
C047 F 2 R 1				R 2	1	1	1							9	
C048 F R 1 1				R 4		1	1								
C049 F R 1 R 1 1				R 3	1	3		1							
C050 F 2 1				R 4		6									
C051 F 1				R 4											
C052 F				R 4						* X					
*MM-B:BEAM SEAT NOT INSTALLED															
C053 F				R 4						* X					
*MM-B:BEAM SEAT NOT INSTALLED															
C054 F				R 4						* X					
*MM-B:BEAM SEAT NOT INSTALLED															
C055 F 2				R 4						* X					
*MM-B:BEAM SEAT NOT INSTALLED															
C056 F				R 3									R 2		
C057 F				R 2									R 2		
C058 F 1				R 4											
C059 F R 2 R 2				R 4									2		
C060 F R 1				R 4		1									
C061 F				R 4		2									
C062 F				R 4											
C063 F												X			

JOINT	TYPE	U	S	W	D	I	C	U	R	U	C	M	M	I	J	GM
		A	B C D	A B C D E F G H I J K L		A	B C D	A	B	A	B	A	B C	A	B	
C064	F						R 4									
C065	F						R 4			*	X					
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																
C066	F						R 4									
C067	F						R 4									
C068	F		R 1				R 6		1							
C069	F						R 3								9	
C070	F													X		
C071	F						R 3								9	
C072	F		1 R 2				R 6		2							
C073	F						R 4			*	X					
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																
C074	F													X		
C075	F			R 1			R 4									
C076	F						R 4									
C077	F													X		
C078	F						R 4		1	*	X					
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																
C079	F						R 4			*	X					
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																
C080	F		R 1				R 4			*	X					
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																
C081	F						R 4			*	X					
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																
C082	F						R 4			*	X					
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																
C083	F		R 1				R 4			*	X					
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																
C084	F		R 1													
C085	F		2	R 1			R 1					R	2			

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.   CONTROL BLDG
*                                                                           F004532
*JOINT.TYPE      M S                                                        .        AWS WELDING REPORT. APPENDIX D. PAGE 92
*    .    A   B   C   D . A   B   C   D   E   F   G   H   I   J   K   L . A   B   C   D . A   B . A   B . A   B   C . A   B
*=====.====.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.===.
*
 C086  F        R 2          2       2
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED                                     R 4                 * X
*
 C087  F             2     R 2     R 1
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED                                     R 4       2         * X
*
 C088  F        R 2
*                                                                             R 4
 C089  F            R 1
*WDL-COLD ROLL 1/4 IN LONG                                          * 1       R 5       1
*
 C090  F
*WDL-COLD ROLLS 5/8 IN LONG MAX                                     * 3       R 4       2      2
*
 C091  F
*                                                                             R 4
 C092  F
*GN-WELD REINSPECTED                                                                                           *OK
*
 C093  F            R 1
*                                                                             R 5            R 1                3
 C094  F
*WDL-COLD ROLL                                                      *R1       R 4
*
 C095  F
*                                                                             R 4
 C096  F
*                                                                             R 3
 C097  F
*                                                                             R 4
 C098  F    R 2
*WDL-COLD ROLLS 1/2 IN LONG MAX                                     * 2         7       1
*
 C099  F
*WDL-COLD ROLL 1/2 IN LONG                                          * 1         7
*
 C100  F
*                                                                             R 4
 C101  F
*                                                                             R 4
 C102  F
*WDL-COLD ROLLS                                                     *R2
*
 C103  F
*                                                                             R 4
 C104  F           R 2
*WDL-COLD ROLLS                                                     * 5       R 6       4
*
 C105  F           R 2
*WDL-COLD ROLLS                                                     * 5       R 6    1  3
```

JOINT	TYPE	U	S	W	D	I	C	U	R	U	C	M	M	J	J	GN
	A B C D	A B C D E	F G H I J K L	A B	C D	A B	A B	A B C	A B							
C106	F	R 1 R 1	1 * 2	8												
*WDL-COLD ROLLS																
C107	F			2												
C108	F			R 4												
C109	F															OK
C110	F			R 4												
C111	F			R 4												
C112	F			R 4												
C113	F	R 2	1 1 * 3	R 5												
*WDL-COLD ROLLS																
C114	F	R 1 R 1	1 * 1	5	1											
*WDL-COLD ROLL 1/2 IN LONG																
C115	F			R 4												
C116	F		1 * 2	R 4												
*WDL-COLD ROLLS																
C117	F		1 * 2	R 4												
*WDL-COLD ROLLS																
C118	F			R 4												
C119	F			R 4	1											
C120	F			R 4												
C121	F	R 1	1	R 4												
C122	F	1		R 4												
C123	F			R 4												
C124	F	2		R 4												
C125	F			R 2												6
C126	F															
C127	F	R 2	1	R 4	1											
C128	F			R 4								R 1				

JOINT	TYPE	U S				W D										I C		U R		U C		M M		I J	GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
C129	F						2											R 4													
C130	F																	R 4													
C131	F			R 1			2		2									R 4													
C132	F						4		1									R 4							* X						
*MMA-SEAT ANGLE PROVIDED BUT NOT REQUIRED																															
C133	F						3		1									R 4													
C134	F																	R 4													
C135	F																	R 4													
C136	F			R 1														R 4													
C137	F		R 1															R 4				2									
C138	F																	R 4													
C139	F																	R 4													
C140	F																	R 4													
C141	F																	R 3												8	
C142	F		2		1												*R1	R 5													
*WDL-COLD ROLL																															
C143	F																	R 4													
C144	F																	R 4													
C145	F																	R 4												1	
C146	F											1						R 4												1	
C147	F																	R 4													
C148	F																	R 4													
C149	F		2															R 2												6	
C150	F																	R 4													
C151	F																	R 2												6	
C152	F		R 2															R 4													

JOINT	TYPE	U S				W D												I C		U R		U C		M M			I J	GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
C153	F		R 1	R 1														R 4													
C154	F																	R 4													
C155	F																	R 4													
C156	F																	R 4													
C157	F																	R 4			1										
C158	F			R 1														R 4													
C159	F																												X		
C160	F		R 1		1													R 4													
C161	F																	R 4													
C162	F																	R 4													
C163	F																	R 4													
C164	F	1																R 4													
C165	F	R 1								R 1								R 3													
C166	F									R 1								R 3													
C167	F																	R 4													
C168	F																	R 2													
C169	F																	R 4													
C170	F																	R 4													
C171	F																													OK	
C172	F																	R 4													
C173	F																												X		
C174	F																	R 4													
C175	F																	R 4													
C176	F																	R 2													
C177	F																	R 4													
C178	F		R 1														R*1	R 2			R 1										

*JOINT.TYPE	U S				W D											I C	U R	U C	M M			GN
*	A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
*WDL-COLD ROLL																														
C179 F																		R 4											
C180 F																		R 2											6
C181 F																		R 4											
C182 F																		R 2											6
C183 F																*R2		R 4			1								
*WDL-COLD ROLL																														
C184 F																		R 4											
C185 F																*R2		R 4											
*WDL-COLD ROLL																														
C186 F																* 3		R 4				2							
*WDL-COLD ROLL																														
C187 F																		R 1											
C188 F																		R 4											
C189 F																														OK
C190 F																		R 4											
C191 F																		R 4											
C192 F																		R 4											
C193 F		R 1																R 4											
C194 F																		R 4											
C195 F																		R 4											
C196 F		R 1	1															R 4											
C197 F																		R 4											
C198 F																		R 4											
C199 F																		R 4											
C200 F																		R 4											
C201 F																												X		

JOINT	TYPE	U A	U B	U C	U D	S A	S B	S C	S D	W E	W F	W G	W H	W I	W J	W K	W L	D A	D B	I C	C D	U A	U R B	U A	U C B	M A	M B	M C	I A	I J B	GN
C202	F		R 2	3																R 4			1								
C203	F		R 1	1																R 3					* 2						
*MMA-BOTTOM FLANGE WELDED TO PLATE BOTH SIDES																															
C204	F																			R 4											
C205	F																			R 4											
C206	F																			R 4											
C207	F		1																	R 4											
C208	F																			R 4			1								
C209	F							1												R 4											
C210	F																			R 2			1								
C211	F			R 2																R 4											
C212	F																			R 3		4	R 1		2			2			
C213	F																			R 5			R 1								
C214	O																												X		
C215	O																												X		
C216	O																													2	
C217	O																													2	
C218	O																													2	
C219	O																													2	
C220	F		R 1																												
C221	F																						R 2								
C222	F																						R 2		1						
C223	F																						R 2								
C224	F																			R 4											
C225	F																			R 2											
C226	F																														GR

JOINT	TYPE	A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	GN
C227	F		1																												
C228	F																														
C229	F																														
C230	F																														OK
C231	F																														X
C232	F																														X
C233	F																														X
C234	F																														X
C235	F																														X
C236	F																														X
C237	F																														X
C238	F																														X
C239	F																														X
C240	F																														X
C241	F																														X
C242	F																														X
C243	F																														X
C244	F																														X
C245	F																														X
C246	F																														X
C247	F																														X
C248	F																														X
C249	F																														X
C250	F																														X
C251	F																														X
C252	F																														X

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
C253	F																												X		
C254	O																														OK
C255	O																														OK
C256	F																												X		
C257	F																												X		
C258	F																												X		
C259	F			4																											

JOINT	TYPE	U S	W D	I C	U R	U C	M M	I J	GN
	A B C D	A B C D E F G H I J K L	A B C D	A B	A B	A B	A B C	A B	
DA	F			R 1					
DB	F * 1			R 2	4				
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 11% OF THE TOTAL LENGTH									
DC	F								OK
DD	F				4	R 1			
DE	F 3								
DF	F			R 4		2			
D001	F			R 3			2		
D002	F			R 4			2		
D003	F 1			R 1		2			
D004	F 3					2			
D005	0					2			
D006	F 1				4				
D007	F 1	* 2				3			
*WD-G:GOUGES-DEFECT LENGTH IS 3/4 MAXIMUM									
D008	F 5	* 1				4			
*WD-G:GOUGES-DEFECT LENGTH IS 1/2									
D009	F 1					4			
D010	F 5								
D011	F	* 4							
*WD-G:GOUGES-DEFECT LENGTH IS 2 3/16 MAXIMUM									
D012	F				4				
D013	F								OK
D014	F								OK
D015	F								OK
D016	F								OK
D017	F								OK

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JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
D018	O																						2								
D019	F																														OK
D020	F																						5								
D021	F		R 1																				4								
D022	F																														*
*GN:PREVIOUSLY INSPECTED AS JOINT DA																															
D023	F																														OK
D024	F																			R 2											
D025	F																				4										
D026	F																				4										
D027	F				1															R 4			1	3							*
*GN:GOUGES NOTED BUT NOT LOCATED																															
D028	F		R 1								* 1						* 1			R 4				4							
*WD-L:COLDLAP-DEFECT LENGTH IS 1/2 ;WD-G:GOUGES-DEFECT LENGTH IS 1/2																															
D029	F		6																	R 2											
D030	F	* 1									* 2									R 3				4							
*WD-G:GOUGES-DEFECT LENGTH IS 1/2 MAXIMUM:US-A:ONE LEG IS UNDERSIZED FOR 20% OF THE TOTAL LENGTH																															
D031	F		4																		4		3								
D032	F		6																		4		1								
D033	F		4	4																R 1			4								
D034	F		R 1																		4										
D035	F		1	5																	4	R 1									
D036	F		4																			R 1		2							
D037	F		4																			R 2		1							
D038	F		2																	R 1			4								
D039	O																														OK
D040	O	* 1																													
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 17% OF THE TOTAL LENGTH																															

JOINT	TYPE	U S				W D										I C		U R		U C		M M				G N
		A	B	C	D	A	B	C	D	F	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
D041	F																														OK
D042	F																														OK
D043	F																*R1								1						
*WD-L:COLDLAP-DEFECT LENGTH IS 3/8																															
D044	F																			4	R 1										
D045	O																														OK
D046	O																														OK
D047	O			2																											
D048	O			2																											
D049	F																		R 2												
D050	F																					4									
D051	F																		R 1			4									
D052	F																														OK
D053	F																		R 2												
D054	F																		R 3												
D055	F																														OK
D056	F																		R 4												
D057	F																				4										
D058	F																				4										
D059	F																		R 3												
D060	F																		R 3												
D061	F																		R 4												
D062	F			1	R 4														R 3												
D063	O																														OK
D064	F				R 2														R 2												
D065	O																														OK

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JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GM
D066	F			1	R 1															R 2											
D067	O																														OK
D068	F			1	R 2															R 2											
D069	O			2																											
D070	F			1	R 3															R 3											
D071	O				2																										
D072	F	* 1		1	R 3															R 3											
*US-A:ONE LEG IS UNDERSIZED FOR APPROXIMATELY 30% OF THE TOTAL LENGTH																															
D073	O				2																										
D074	F			4																R 2											
D075	F																				4										
D076	F		2																	R 1											
D077	F																														OK
D078	F			R 1																											
D079	F																														OK
D080	F																														OK
D081	F																														OK
D082	F																														OK
D083	F																														OK
D084	F																														OK
D085	F																							R 2							
D086	F																			R 3											
D087	F																				2										
D088	F																			R 4											
D089	F																		2												
D090	F																														OK

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JOINT	TYPE	U S A	U S B	U S C	U S D	W D A	W D B	W D C	W D D	W D E	W D F	W D G	W D H	W D I	W D J	W D K	W D L	I C A	I C B	U R C	U C D	M M A	M M B	M M A	M M B	M M C	I J A	I J B	GH
D091	F																												OK
D092	0																												
D093	0																												

2

2

..... END REPORT .....

.DATE 18 JAN 85 14:18:18 RID 6 13 NOV 84 BECHTEL
. FUEL BLDG F004532

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JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
FA	F																			R 2											
FB	F			1																R 4											
FC	F			1				* 1																							
*WD-C:DEFECT LENGTH IS 3/8																															
FD	F		1			* 2		1																						R 1	
*WD-A:DEFECT LENGTH IS 3/4																															
FE	F		1	1																											
FF	F																						1								
F001	F		R 1																				1								
F002	F		5																												
F003	F		R 2	1																			3								
F004	F		R 3	R 2																			2								
F005	F		1	R 1		R 1												2					R 1								
F006	F			2														2					R 2					R 2			
F007	F	1																1					3								
F008	F		1	R 1														2													
F009	F		1	R 1														1					4								
F010	F		1	R 2				1															2								
F011	F																	2													
F012	F			R 2														2					R 1								
F013	F			R 2														2					R 2								
F014	F	1		R 1														2					R 2								
F015	F			R 1		1											*R1	2					R 2								
*WDL-LAMINATION																															
F016	F			R 1	R 1	1											*R1	2							1						
*WDL-LAMINATION																															
F017	F				1			2										2					R 1					R 2			

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*JOINT.TYPE	U S	W D	I C	U R	U C	M M	I J	GH
	A B C D . A B C D E F G H I J K L . A B C D . A B . A B . A B C . A B							
F018 F	R 1 1							
F019 F	R 1		2	R 2	R 2			
F020 F	1		2	R 1				
F021 0			2	R 2				
F022 F	1 2							OK
*GN-SEAT BOLTED TO WALL. NO EMBED AVAILABLE								
F023 F	R 2		R 1	2	R 2			*
*GN-SEAT BOLTED TO WALL. NO EMBED AVAILABLE								
F024 0				1				*
*VOID. CONNECTION DOES NOT REQUIRE WELDING								
F025 0								*
F026 F								OK
F027 0								OK
*GN-SUPERCEDED BY FG47								
F028 0								*
*GN-SUPERCEDED BY FG45								
F029 F	1 R 1							*
*WDL-COLD ROLL			*R1 1	4				
F030 0								
F031 0								OK
F032 F				1				
*IC-D:CAN'T BE WELDED PER DETAIL (FILLET)-ANGLE LESS THAN 60 DEGREES; MM-A: NOT PER DETAIL			* 1		* X			
F033 F	1 4 R 1							
F034 F			R 2			4		
F035 F						8		
F036 0	1							OK
F037 F						1		
F038 F				1	1			
F039 0				1	2			OK

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*JOINT.TYPE	A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	GM
F040 F																														OK
F041 D																														OK
F042 F																	1													
F043 D																														OK
F044 F	1	R	1	2																										
F045 F							2									*	1		R	2			1							
*WDL-COLD ROLL																														
F046 F																														OK
F047 F																			R	2										
F048 F																														OK
F049 F																														OK
F050 F																														OK
F051 F			1													*	1						1							
*WDL-COLD ROLL																														
F052 F																														OK
F053 F																														OK
F054 F																														OK
F055 F																														OK
F056 F																														OK
F057 F																														OK
F058 F																														OK
F059 F																														OK
F060 F																														OK
F061 F																														OK
F062 F																														OK
F063 F																														OK

JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	UR C	UR D	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GR
F064	F			2																									
F065	F			3	R 1																								
F066	F			2																									
F067	F			1																R 2									
F068	F		1	3	2																								
F069	F		1	2	1															1									
F070	F			1	1															R 1								1	
F071	F			2	1																								
F072	F			2																									
F073	F																												OK
F074	F			1																									
F075	F			1	1																								
F076	F			1																									
F077	F																												OK
F078	F			1																									
F079	F																												OK
F080	F			1																								1	
F081	F			1																								1	
F082	F		1	1																									
F083	F		1	1																									
F084	F			1																									
F085	F			1																									
F086	F		1	1																									
F087	F				R 2																								
F088	F			3																R 2									
F089	F		R 1		4																								

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JOINT	TYPE	UT A	UT B	UT C	UT D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
F090	F			2	2																										
F091	F			1	2																										
F092	F		1	1																											
F093	F			1																											
F094	F			1																											
F095	F																														OK
F096	F																														OK
F097	F				1																										
F098	F																														OK
F099	F																			R	2										
F100	F																			R	2										
F101	F																														OK
F102	F																														OK
F103	F																			R	1										
F104	F																														OK
F105	0																														OK
F106	0																														OK
F107	0																														OK
F108	0																														OK
F109	0																														OK
F110	0																														OK
F111	0			1																											
F112	0																														OK
F113	0																														OK
F114	0																														OK

JOINT	TYPE	U	S	W	D	I	C	U	R	U	C	M	M	I	J	GN
		A	B C D	A	B C D E F G H I J K L	A	B	C	D	A	B	A	B	A	B C	A	B	
F115	0																	OK
F116	0																	OK
F117	0																	OK
F118	0																	OK
F119	0																	OK
F120	0																	OK
F121	0																	OK
F122	0																	OK
F123	0																	OK
F124	0																	OK
F125	0																	OK
F126	0																	OK
F127	0																	OK
F128	0																	OK
F129	0																	OK
F130	0																	OK
F131	0																	OK
F132	0																	OK
F133	0																	OK
F134	0																	OK
F135	0																	OK
F136	0																	OK
F137	0																	OK
F138	0																	OK
F139	0																	OK
F140	0																	OK

JOINT	TYPE	U S				W D										I C		U R		U C		M M				I J		GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
F141	0																														OK
F142	0																														OK
F143	F																			R	3		4								
F144	0																														OK
F145	0		1																												
F146	0																														OK
F147	0																														OK
F148	0																														OK
F149	0																														OK
F150	0																														OK
F151	0																														OK
F152	0																														OK
F153	0																														OK
F154	0		1																												
F155	0																														OK
F156	0																														OK
F157	0																														OK
F158	0																														OK
F159	0																														OK
F160	0																														OK
F161	0																														OK
F162	0																														OK
F163	0																														OK
F164	0																														OK
F165	0																														OK

JOINT	TYPE	U S				W D										I C		U R		U C		M M			I J		GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	
F166	0																														OK
F167	0																														OK
F168	0																														
*GN:PREVIOUSLY INSPECTED AS JOINT F025																															
F169	0																														OK
F170	0			1																											
F171	0																														OK
F172	0																														OK
F173	0																														OK
F174	0																														OK
F175	0																														OK
F176	0																														OK
F177	0																														OK
F178	0																														OK
F179	0			1																											
F180	0			1																											
F181	F				2																										
F182	F																														OK
F183	F			1																											
F184	F				1																										
F185	F				1																										
F186	F																														OK
F187	F																														OK
F188	F																														OK
F189	F																														OK
F190	F																														OK

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
F191	F																														OK
F192	0																														OK
F193	0																														OK
F194	0																														OK
F195	0																														OK
F196	F																														OK
F197	F																														OK
F198	F																														OK
FG01	0																														OK
FG02	0																														OK
FG03	0																														OK
FG04	0																														OK
FG05	0																														OK
FG06	0																														OK
FG07	0																														OK
FG08	0																														OK
FG09	0																														OK
FG10	0																														OK
FG11	0																														OK
FG12	0																														OK
FG13	0																														OK
FG14	0																														OK
FG15	0																														OK
FG16	0																														OK
FG17	0																														OK
FG18	0																														OK

JOINT	TYPE	US	WD	IC	UR	UC	MM	IJ	GN
		A B C D	A B C D E F G H I J K L	A B C D	A B	A B	A B C	A B	
FG19	0				1				
FG20	0								*
*GN:PREVIOUSLY INSPECTED AS JOINT F31									
FG21	0				1				
FG22	0								OK
FG23	0								*
*GN:PREVIOUSLY INSPECTED AS JOINT F30									
FG24	0								OK
FG25	0								OK
FG26	0								OK
FG27	0								OK
FG28	0								OK
FG29	0								OK
FG30	0								OK
FG31	0								OK
FG32	0								OK
FG33	0								OK
FG34	0								OK
FG35	0								OK
FG36	0								OK
FG37	0								OK
FG38	0								OK
FG39	0								OK
FG40	0								OK
FG41	0								OK
FG42	0								OK

JOINT	TYPE	A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B	GR
FG43	0																					3									
FG44	0																					4									
FG45	0																						3								
FG46	0																					3									
FG47	0																						2								
FG48	0																														OK
FG49	0																														OK
FG50	0																														OK
FG51	0																														OK
FG52	0																														OK
FG53	0																														OK
FG54	0																														OK
FG55	0																														OK
FG56	0																														OK
FG57	0																														OK
FG58	0																														OK
FG59	0																														OK
FG60	0																														OK
FG61	0																														OK
FG62	0																														OK
FG63	0																														OK
FG64	0																														OK
FG65	0																														OK
FG66	0																														OK
FG67	0																														OK
FG68	0																														OK

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JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	NA A	NA B	NA C	IJ A	IJ B	GN
FG69	0																														OK
FG70	0																														OK
FG71	0																														OK
FG72	0																														OK
FG73	0																														OK
FG74	0																														OK
FG75	0																														OK
FG76	0																														OK
FG77	0																														OK
FG78	0																														OK
FG79	0																														OK

----- END REPORT -----

JOINT	TYPE	US A	US B	US C	US D	WD A	WD B	WD C	WD D	WD E	WD F	WD G	WD H	WD I	WD J	WD K	WD L	IC A	IC B	IC C	IC D	UR A	UR B	UC A	UC B	MM A	MM B	MM C	IJ A	IJ B	GN
PA	F																														OK
PB	F																														OK
PC	F																														OK
PD	F																														OK
PE	F																														OK
PF	F																														OK
P001	F																						R 1								*
*GN:CLIP ANGLES HAVE BEEN COPED																															
P002	F																														OK
P003	F																														OK
P004	F																														OK
P005	F																														*OK
*GN:CLIP ANGLES HAVE BEEN COPED																															
P006	F																			R 1											*
*GN:CLIP ANGLES HAVE BEEN COPED																															
P007	F			R 1																			R 1								
P008	F			R 1																											
P009	F																														OK
P010	F																														OK
P011	F																														OK
P012	F																						R 1								
P013	F																			R 4											*
*GN:INCLUDES BOTH HORIZONTAL AND BRACING CHANNELS																															
P014	F																			R 4											*
*GN:INCLUDES BOTH HORIZONTAL AND BRACING CHANNELS																															
P015	F																			R 1											*
*GN:INCLUDES BOTH HORIZONTAL AND BRACING CHANNELS																															
P016	F			1																											*

JOINT	TYPE	U	S	W	D	I	C	U	R	U	C	M	M	I	J	GN
		A	B	C	D	A	B	C	D	E	F	G	H	I	J	K	L	A	B	C	D	A	B	A	B	A	B	C	A	B		
P017	F																			R	2			R	2							
P018	F																			R	1											
P019	F																			R	1			R	3							
P020	F																							R	2							
P021	F																							R	1							
P022	F																			R	1			R	1							
P023	F																			R	4											
P024	F			1																R	3											
P025	F																			R	3											
P026	F																			R	3											
P027	F																			R	2											
P028	F																			R	2											
P029	F																			R	4											
P030	F																			R	2											

*GN:INCLUDES BOTH HORIZONTAL AND BRACING CHANNELS