Facility: CR3 CRYSTAL RIVER PLANT NUCLEAR

WR Originator: BATCH

Unit : 3

ソ

Project :

W/O Type: PM

TSK PRI: 3 W/O Dspln: N

lanner: BAKERJ02 BAKER

b Title : E, SP0182, RB STRUCT INTEG TENDON SU

W/O Task Title: E,Q,OW, RB ASME XI IWE / IWL VISUAL

EXAMIS LINER / CONCRETE

Task Dspln

Due By: 09/01/06



00681043 08

MASTER

Rpt : TIPMC11

Date: 11/21/07

### Work Order Task Written To

Facility : CR3

Unit : 3

Sys: MX

PMT: N

Equipment: PLA RB Work Item :

Component: Eqt. List:

Review Regd: N

Equip. Tag: RB; PLA

Alt: RB Job Type : OW UCR:

J D

UTC:

Catalog ID:

Name : CONTAINMENT LINER PLATE

Location :

RB; RB, PLA (LINER); RB, STU (STRUCTURE & DOME)

Crew

Resource Type: PERS Resource Code: QCON02 Qty: 3 Duration:

Cost Centr: 60723D

rcentage: 100.000

Acct No.: 00 20016571 W0401

PM Proj :

Network Reference:

#### Nuclear Information

RWP Required : N Contain Closure : Doc Pkg : A Mode:

Contain Integrity:

Q Group : S QA Grade:

Train Status :

NCR

### Work Order Task Instructions

THIS TASK WILL BE USED TO CAPTURE AND DOCUMENT THE VISUAL EXAMINATIONS OF REACTOR BUILDING CONCRETE CONTAINMENT AND LINER SURFACES.

INSPECTIONS REQUIRED PER ASME XI, IWE (LINER) AND IWL (CONCRETE CONTAINMENT)

DOCUMENT INSPECTIONS PERFORMED AS DIRECTED BY PROGRESS ENERGY PROGRAM MANAGER (RICK PORTMANN OR DESIGNEE).

INSPECTIONS HAVE BEEN OR WILL BE BE PERFORMED IN ACCORDANCE WITH NDEP-0620. "VT-1 AND VT-3 VISUAL EXAMINATION OF ASME SECTION XI.

SUBSECTION IWE COMPONENTS OF NUCLEAR POWER PLANTS" AND/OR

NAP-02, PREPARATION AND CONTROL OF CR3 SITE SPECIFIC RPECIAL PROCESS SPECIFICATIONS AND GUIDELINES.

Facility: CR3 CRYSTAL RIVER PLANT NUCLEAR WR Originator: BATCH

Unit : 3 Project : W/O Type: PM TSK PRI: 3 W/O Dspln: N anner : BAKERJ02 BAKER J D

o Title : E, SP0182, RB STRUCT INTEG TENDON SU W/O Task Title: E,Q,OW, RB ASME XI IWE / IWL VISUAL

EXAMIS LINER / CONCRETE

Task Dspln Due By: 09/01/06



### Work Order Package

00681043 08

MASTER

Rpt : TIPMC11 Date: 11/21/07

Page: 2

### Rework/Approval

Deficiency Tag No.:

Loc:

Tag Removed:

ReWork Job : N Comments:

### Task Requirements

FAC.	REG/REQ	VALUE	COMMENTS
CR3	ALARA NBR		:
CR3	ANI NOTIFY		•
CR3	BREACH	NA	
3	CLEANCLASS	NA	
ER3	CLR NBR	NA	
.CR3	CLR REQ	N	
CR3	COMMITMENT		
CR3	DECON	N	
CR3	EQ	N	
CR3	FIRE PROT	NA	
CR3	ISI	YES	NIS-2 NOT REQ.
CR3	LCO		
CR3	MAINT RULE	MR	
CR3	NDE REQ		
CR3	QC	N	ISI INSPECTIONS OF RB
CR3	REAC MGMT		
CR3	RET TO SER		•
CR3	RISK FACTR	Т2	
CR3	RWP	Y	
CR3	RWP NBR		
CR3	SECURITY	NA	
CR3	WELD DOC	N	
CR3	WORK REL		
CR3	WORKAROUND	N	
CR3	ZERO TOL	NA	EC60735

#### uthorization

Start Permission :

Date: 11/24/07

	· · · · · · · · · · · · · · · · · · ·
Facility: CR3 CRYSTAL RIVER PLANT NUCLEAR WR Originator: BATCH Unit : 3	Work Order Package  00681043 08  MASTER Rpt: TIPMC11 Date: 11/21/07
Failure/Action Taken/As Found	
Failure Category Code (F/NF)  Action Taken Category Code:  As Found Sub Category Code: (1-5)  MA SC  MA SC	
Work Completion Signatures	
Name Function/Dept.  Eug-IsI  comments:	Date 12/2/67
Rework Reason/Cause	$\sim$
CT COMPONENT FAILED I W INCOMPLETE WORK FROM MAINTENANCE REWORK Date: Comments:	(Y(N)) - -
Completion Comments on Work Performed	
Completion Comments Required  Comments: TWE / FUL Examination Complete  WCR's Generaled: 256010, 2	<u> </u>

W/O Type: P Planner : B O Title W/O Task Tit	Project:  M TSK PRI: 3 W/O Dspln: N  DAKERJO2 BAKER J D  E E, SP0182, RB STRUCT INTEG TENDON SU  Te: E,Q,OW, RB ASME XI IWE / IWL VISUAL  EXAMIS LINER / CONCRETE  E N Due By: 09/01/06	Work Order Package  00681043 08  MASTER Rpt: TIPMC11 Date: 11/21/07
Completion Co	omments on Work Performed	
Comments:	Completion Comments Required	: Y
Comments:		•
•		
Continued o	on Additional Sheets? :	·
		i i i i i i i i i i i i i i i i i i i

Facility: CR3 CRYSTAL RIVER PLANT NUCLEAR

Facility: CR3 CRYSTAL RIVER PLANT NUCLEAR

:. 3 Unit Project :

W/O Type: PM Priority: W/O Dspln: N

Planner : KARGED KARGEL DC W/O Title : E, SP0182, RB STRUCT INTEG TENDON SU

O Task Title: E.O.OW, RB ASME XI IWE / IWL VISUAL

EXAMIS LINER / CONCRETE

Written To

Task Dspln N Completed By:



### Work Order Package

00681043 08

Rpt : TIPMC1A Date: 11/21/2007

Page:

1

#### PM Related Information

PM Early Date: 06/02/05

PM Late Date: 12/01/07

PM Frequency Code: 5Y PM Frequency Days: 1825

PMID-RQ: 00029859 01

### References/Document Information

Type/Subtyp: POM NUA Number: NAP02 Sheet:

Title/Desc: PREPARATION AND CONTROL OF CR3 SITE SPECIFIC Image: N Type/Subtyp: MGEN MAN Number: ISIIWE Sheet:

tle/Desc : INSERVICE INSPECTION PROGRAM/CONTAINMENT INSPECTI Image: N

pe/Subtyp: MGEN PRO Number: NDEP-0620 Sheet:

Title/Desc: VT-1 AND VT-3 VISUAL EXAMINATION OF ASME SECTION Image: N

Procedure: NDEP-0620 Revision 2	
---------------------------------	--

### Title: VT-1 AND VT-3 VISUAL EXAMINATION OF ASME SECT. XI IWE COMPONENTS OF NUCLEAR POWER PLANTS

Verified By	Verified Current	Verified By	Verified Current
Hen Brown	11104107		. 1 1
Hem Broom	11105107		1 1
Hen Brook	~ 11,06,07		1 1
/ * *	~ 11 1071 07		
Hen Brook	11 108107		1 1
Jen Brook	11 109107		1 1
	~11 112107		_ / _ /
Hen Broke	11 113107		1 1
Her Sprown	11 114107		
Heta hour		·	1 1
Hend Brown	11,19,07		1 1
Hem/ Brook	11 121107		1 1
Her Brown	27/123/07		11
He of Brook	11 126107		l İ
1 ten of Brook	11 128 107		1 1
	1 1		1 1
			1 1
	1 1		1 1
	1 1		1 1
			1 1
	1 1		1 1
	1 1		1 1
	1 1		1 1

Procedure: N	IAP-02	Revision	2

## Title: PREPARATION AND CONTROL OF CR3 SITE SPECIFIC SPECIAL PROCESS SPECIFICATIONS AND GUIDELINES

Verified By	Verified Current	Verilied By	Verified Current
MBuron	11141-07		
H Broom	1115107		1 1
Mooh	1116107		1 1
Moun	11 17107		1 1
Maron	11 18 107	· · · · · · · · · · · · · · · · · · ·	
Mount	11 19107		1 1
MBrown	11/12/07		1 1
Mbroom	11 113107		11
MBrown	11 114107		1 1
H Broom	11 116107		1 1
1000m	11 119107	·	1 1
MBoon	11 121107		<i>l</i>
1 Broom	11 /23/07		1 1
HBwohn	11/26/07		1 1
101 Brown	11 128 107		1 1
	1 1		1 1
	. 1 1		1 1
	1 1		1 1
	1 1		1 1
	1 1		
			1 1
			1 1



November 7, 2007

To: File

Subject: IWE/IWL Inspections

I have reviewed the visual NDE certifications for the below listed PSC and NIC personnel and found them to be acceptable to perform VT-3/VT-1 visual examinations of ASME Section XI, Sub-section IWE and IWL Components. In addition, it is understood that the NIC inspection personnel have satisfactorily demonstrated Remote Visual Examination Capability utilizing a previously approved CR3 qualified remote demonstration as witnessed by NIC's VT Level III on 11/1/07.

Personnel	Company	Certification VT-1L / VT-1C / VT-	Cert. Expiration Dates	Eye Exam Date
Brian Gibson	PSC	3C	8/10/09	6/15/08
Joseph H. LaTouche	NIC	VT, Level II	10/15/08	10/8/08
Henry J. Brooks	NIC	VT, Level II	10/13/10	10/13/08
Jason B. Sonnier Lenus F. Duplechain	NIC	VT, Level II	10/13/10	10/13/08
III	NIC	VT, Level II	10/13/10	10/13/08
Bemard P. Komara	NIC	VT, Level III	5/22/12	5/23/08
Chuck Bennett	NIC	VT, Level II	3/12/09	2/14/08
Marc Lablanc	NIC	VT, Level II	2/16/10	2/14/08
Brian S. Kissack	NIC	VT, Level II	10/23/08	2/14/08

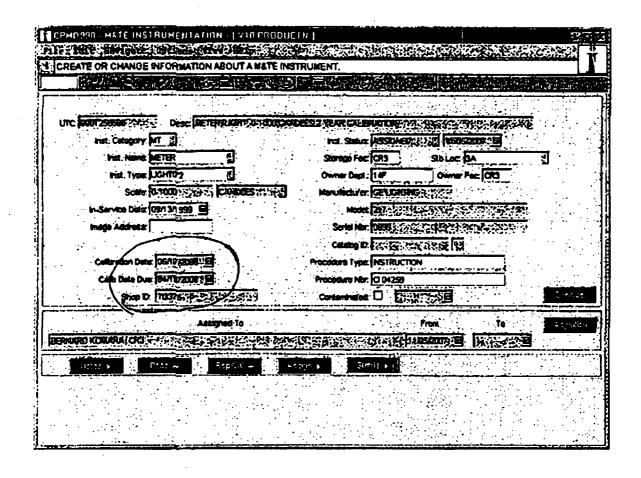
This memorandum constitutes the acceptance by the Responsible Engineer for Progress Energy.

The A Lesc'

Design Engineering Structural

# IWL Evan Reports

Component ID	VT-3 Report No	VT-1 Report No	Summary No
RBCN-0001	VT-07-097	VT-07-201	L1.11.0001
RBCN-0002	VT-07-098	VT-07-118	L1.11.0002
RBCN-0003	VT-07-099	VT-07-130	L1.11.0003
RBCN-0003	VT-07-131	VT-07-132	L1.11.0003
RBCN-0004	VT-07-100		L1.11.0004
RBCN-0005	VT-07-101	VT-07-304	L1.11.0005
RBCN-0006	VT-07-102	VT-07-203	L1.11.0006
RBCN-0007	VT-07-103		L1.11.0007
RBCN-0008	VT-07-104	VT-07-300	L1.11.0008
RBCN-0009	VT-07-105	VT-07-302	L1.11.0009
RBCN-0010	VT-07-106	VT-07-288	L1.11.0010
RBCN-0011	VT-07-107	VT-07-227	L1.11.0011
RBCN-0012	VT-07-108	VT-07-230	L1.11.0012
RBCN-0013	VT-07-109	VT-07-229	L1.11.0013
RBCN-0014	VT-07-110	VT-07-228	L1.11.0014
RBCN-0015	VT-07-111	VT-07-289	L1.11.0015
RBCN-0016 (Buttress 1 to Buttress 2)	VT-07-112		L1.11.0016
RBCN-0016 (Buttress 2 to Buttress 3)	VT-07-113		L1.11.0017
RBCN-0016 (Buttress 3 to Buttress 4)	VT-07-114		L1.11.0018
RBCN-0016 (Buttress 4 to Buttress 5)	VT-07-115	VT-07-165	L1.11.0019
RBCN-0016 (Buttress 5 to Buttress 6)	VT-07-116		L1.11.0020
RBCN-0016 (Buttress 6 to Buttress 1)	VT-07-117		L1.11.0021



A STATE OF THE PARTY OF THE PAR		ion work shert		
Test Equipment ?	PE TOUR DI Due DI	nt: 08/24/2006 Today Sam		
Description LIC	HT METER	Manufacto	ra: OE LIOH	TING
Radge: DTO 100	0 Poot Candles +/-	iss one		
Scriet #: 0699				
Check Reason	RETURN DAMAGED	Madel: 217		
CYCLE 24	SPECIAL CERTIFICATIO	(n NON-ROUT)	NE CERT.	(V)
	RECERTIFICATION	N (K) FUNCTION	AT CHECK	(W)
	NEW EQUIPMENT	(M) MANUPACT		
Calibration Instructi	on: CI 04259	(N)CANNOT LO	XXIE	(Y)
Originator	CALLAS	Department:	CALIBRA	TTON CAS
		on lab use only***		
CERTIFIED PER	49 m	ALM AR TOLER		
CALIBRATED PER	_ <b>A</b> & @	OUT-OF-TOLERA		(0)
UNCTIONAL CHE	CK PER (W)	adiustment r Repair reoutr	edonoso —	(A)
EMOVED BY	(R)	UPDATED, NOT	en – Used	(s) (s)
escribe Work Perfor	med:	AUT AC SERVIC		(H)
ST INSTRUCTOR	4:/OSC:	HOURS: /OSC:	HOH	UR3
- CONTENT	CAL DATE	1/06 (	DUE DATE	4/19/
· · · · · · · · · · · · · · · · · · ·	USED CALDATE	•	TS:	
		MMIS No	NONE	
red By AL GO	L	Location:		

1

PAGE 82/83

### CALIBRATION DATA SHEET Secondary Standards Lab CI-04-259

Page 1 of 1

		CALIBRATION WORKSHEET NUMBER 06-05-209
1.D. MUNBER:	FI 3375	
SERIAL NUMBER:	0699	
MODEL NUMBER:		217
INSTRUMENT:		LIGHT NETER
SPECIFICATIONS:		0 TO 1000 FOOT CANDLES
ACCURACY:		+/- 15% RDG

SUGGESTED STANDARD	ACTUAL STANDARD USED	DUE DATE
TS-553	TS-575	7/5/06
OR EQUIVALENT		

STANDARD RANGE	STANDARD INPUT/OUTPUT	AS FOUND INDICATION CODE AS	AS LEFT INDICATION CODE AS	TOLERANCE
FOOT CANOLES	FOOT CANDLES	FOOT CAMPLES	FOOT CANDLES	FOOT CANDLES
0 TO 50	25	سى	BALLO AS	21 / 29
50 TO 250	150	160	"AS FOURD"	127 / 173
200 TO 1000	600	640		510 / 690

CALIBRATED BY:	A8	DATE:	6/17/06
----------------	----	-------	---------

LIPPROVED JEDING DATE U -20-06

REVISION -0-

DATE 09/11/99



# Visual Examination of IWL (VT-3C)

Site/Unit: CR	3 / 3		Procedure:	re: NAP-02		_ Outage No.: _		RFO15-IWE		
Summary No.:	L1.11.0001	Pr	ocedure Rev.:	2		Report No.:		VT-07-097		7
Workscope:	ISI	w	ork Order No.:	o.: <u>681043</u>		•	Page: _	1	of _	3
Code: ASME 1992 Ed	l, Thru 92 Ad.	Cat./Item:	L-A/L1.11	Location:		EL. 9	5' to EL.	119'		
Drawing No.:	S-425-001	0	escription: Co	ncrete Surface						
System ID: Concrete	a Containment				_					
Component ID: RBCN-00	001									
·	ED ALL ACCESS	IBLE AREAS								
Resolution: 1/10th of a	n inch		Su	rface Condition: A	s Found					
Visual Equipment/Aids:	Flashlight, 6" Sc	ale, Binocula		_						
Inspected From:	Outside Con		Gallery/Pits		)					
Light Meter Mfg.:	GE Lighting	_	•	)699 (TI-3375)		Illuminati	ion <sup>.</sup>	~ 2	:00ftc	
Light Verification Times:		0900	/ 1145		1300		Out 📝		1600	
Visual Examination:	Direct/Remot			<u></u> ′ <u></u>			_ (Sur (Sp)		1000	
			etem Or Conta	inment Surfaces				·		
Control Access M		vent sy		Non-Coated Areas						
Coated Areas 🗶		Sec		NOII-COALGO AFGAS	*				s	ee
	Accept Reject	N/A Comm	ents			Accept	Reject	N/A	Com	ments
1) Spalling	<b>x</b> _		. 12)	Reinforcing Bar Co	rrosion	X	_		_	_
<ol><li>Cracking</li></ol>	<u>x</u> _		13) (	Rust Bleeding		X	_	_	_	
<ol><li>Delaminations</li></ol>	X _		14) 1	Tendon Surface Cr	acking	X		_	_	
4) Honeycomb	<u>x</u> _		15) [	Efflorescense		X		_	_	
5) Water in Leakage	<u> </u>		16) (	Cosmetic Patch Bo	nd	<b>X</b> .	_	_	_	
6) Chemical Leaching	<b>x</b> _		17) 1	Voids		X	_	_		_
7) Popouts	_ x		18) (	Erosion		<u>x</u>				_
8) Deflection	<u>x</u> _		19) (	Pitting		<u>x</u>		_	_	_
9) Staining	<u> </u>		20)	Abrasion		X		_	-	_
10) Discoloration	_ <del>x</del>		21) :	Segregation		X			-	
11) Vibration Damage	<u>x</u> _			Other		<u> </u>	_	$\overline{\mathbf{x}}$	-	
Comments:	•									
RECORDING CRITERIA TO PREVIOUSLY IDEN						D1. THE	FOLLO	VING (	CHAN	GES
Results: Accep	ot 🗌 Reject	☐ Eve	ıl 🛂	NCR 25	6010					
Percent Of Coverage Ot	otained > 90%:	N/A		Reviewed Pro		ıta:	Ye	<b>S</b>		
Supplied to the state of the st	6:		Data In			- 12				
Examiner Level () LeBlanc, Marc J.	Sign Ty 220	ature		viewer e Lese, PE	٨	$\Delta L$	gnature		11.14	Date
Examiner Level [		atuse		e Review	<del></del>	<u>(7.55</u>	mature !	_	11.14	Date
Duplechain, Lenus F.				ck Portmann	Z	人门		4	1100	107
Other Level N	A Sigr	ature		III Review			pnay re	<u>'</u>	1	Qate
NA	•		1	m Wyatt, ANII	611	M DC		. ,	11/27	767



Report No.:		-07-0	97
Page:	9	of	3

Summary No.: L1.11.0001

Examiner: LeBlanc, Marc J. MJL Le

Level: II

Reviewer: Joe Lese, PE

Date: 11.14.0)

Examiner: Duplechain, Lenus F. 2.

Level: II

Site Review: Rick Portmann

Date: ///22/07

Other: N/A

Level: N/A

ANII Review: Tom Wyatt, ANII

NII //// Date: 1//2

Comments:

ITEM # 1 (REFERENCE PAGE 1, CONDITION 9) - RUST STAIN 25' X 4" (SEE VT-1C REPORT VT-07-201).

ITEM # 2 (REFERENCE PAGE 1, CONDITION 10) - GREASE AND RUST STAIN 17' X 3" (SEE VT-1C REPORT VT-07-201).

ITEM # 3 (REFERENCE PAGE 1, CONDITION 7) - POPOUT, 2 1/2" X 2 1/2" X 1 (SEE VT-1C REPORT VT-07-201).

ITEM # 4 (REFERENCE PAGE 1, CONDITION 10) - GREASE LEAK ON SIDE OF BUTRESS #6 FROM TENDONS RUST STAIN 25' X 4" (SEE VT-1C REPORT VT-07-201).

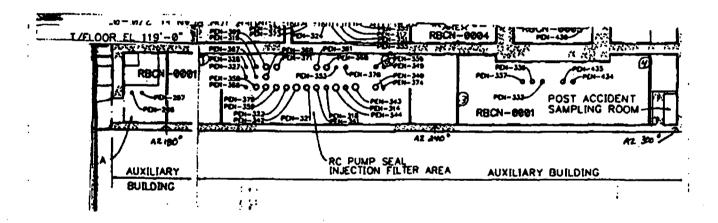


Report No.: VT-07-097

Page: 3 of 3

Summary No.: L1.11.0001

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-097.jpg





## Visual Examination of IWL (VT-1C)

Site/Unit: CR	3 / 3	Procedu	re: NAP-02	Outage No.:	RFO15-IWE	
Summary No.:	L1.11.0001	Procedure Re	v.: <u>2</u>	Report No.:	VT-07-201	
Workscope:	ISI	Work Order N	o.: <u>681043</u>	Page:	1 of <u>3</u>	
Code: ASME 1992 Ed	I. Thru 92 Ad. Cat./i	tem:L-A/L1.1	1 Location:	EL. 95' to EL.	119'	
Drawing No.:	S-425-001	Description:	Concrete Surface			
System ID: Concrete	e Containment					
Component ID: RBCN-00	001					
· · · · · · · · · · · · · · · · · · ·	ED ALL ACCESSIBLE	AREAS				
Resolution: 0.044" Cha	racter Card		Surface Condition: As Found	1		
Visual Equipment/Aids:	1/10" & 1/32" SCALE,	FLASHLIGHT, TAP	PE MEASURE & SPOTLIGHT			
Inspected From:	Outside Containme	ent   Gallery/	Pits () Both ()			
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	> 200ftc	
Light Verification Times:	Cal in 🕢 0900	 ) / 1	145 / 1300	Cal Out 🐼	1600	
Visual Examination:	Direct	_			,	
	1	/ent System Or Co	ntainment Surfaces	· · · · · · · · · · · · · · · · · · ·		
Coated Areas 🗶			Non-Coated Areas		_	
	Accept Reject N/A	See Comments		Accept Reject	See N/A Comments	
1) Spalling	X	1	2) Reinforcing Bar Corrosion		<b>X</b> _	
2) Cracking	X	_	3) Rust Bleeding		<u>x</u> _	
3) Delaminations	$\overline{}$	<del></del>	4) Tendon Surface Cracking		<u>x</u> _	
4) Haneycomb	$\overline{}$	_	5) Efflorescense	<del></del>	<u>x</u> _	
5) Water In Leakage	$\overline{}$ $\overline{}$ $\overline{}$	<del></del>	6) Cosmetic Patch Bond		$\bar{\mathbf{x}}$	
6) Chemical Leaching		_	7) Voids	<del></del>	$\overline{\mathbf{x}}$	
7) Popouts		<u>X</u> 1	8) Erosion		<u>x</u> _	
8) Deflection	X	<del></del>	9) Pitting		<u>x</u> _	
9) Staining		<u>X</u> 2	0) Abrasion		$\bar{\mathbf{x}}$	
10) Discoloration		<u>X</u> 2	1) Segregation		X	
11) Vibration Damage	X	_ 2	2) Other		<u>x</u> _	
Comments: SEE SUPPLEMENTAL	REPORT					
Results: Accep	ot [] Reject []	Eval 🔽	NCR 256010	7		
Percent Of Coverage Of	otained > 90%:	N/A	Reviewed Previous D	ata: Ye:	5	
Examiner Level II	Signatyre	Date	Reviewer	<b>\$</b> ignature	Date	
LeBlanc, Marc J.	72 28l	10/30/2007	Joe Lese, PE	la de	11.14.0	
Examiner Level II	Signature		Site Review	Signature	Date	
Duplechain, Lenus F.	Tolke	10/30/2007	Rick Portmann	201	11/22/07	
Other Level NV	A Signature	Date	ANII Review : 7/1	Signature	Date מא רא נו	
		<del></del>	Tom Wyatt, ANII	WAY	IT JE I JUL	



VT-07-201

Report No.:

							Page:	2 of 3
Summary No.:	L1.11.0001						. •	
Examiner:	LeBlanc, Marc J.	MJL	Level:		Reviewer:	Joe Lese, PE	lake	Date: 11-14-07
Examiner:	Duplechain, Lenus F.	60	Level:	II	Site Review:	Rick Portmann	011	Date: 11/22/67
Other:	N/A		Level:	N/A	ANII Review:	Tom Wyatt, ANII	This	Date: ///2/07
							7,51 7	

#### Comments:

ITEM # 1 (REFERENCE PAGE 1, CONDITION 9) - APPROXIMATE ELEVATION 119', APPROXIMATE AZMUTH 190°, 25' X 4" RUST STAIN (SEE VT-3C REPORT VT-07-097) VT-1C DETERMINED STAIN WAS DUE TO PREVIOUS SPILLAGE, NO DEGRADATION TO CONCRETE.

ITEM # 2 (REFERENCE PAGE 1, CONDITION 10) - APPROXIMATE ELEVATION 119', APPROXIMATE AZMUTH 235°, 17' X 3" GREASE AND RUST STAIN (SEE VT-3C REPORT VT-07-097) VT-1C DETERMINED DISCOLORATION WAS GREASE/RUST, NO DEGRADATION TO CONCRETE.

ITEM # 3 (REFERENCE PAGE 1, CONDITION 7) - APPROXIMATE ELEVATION 102', APPROXIMATE AZMUTH 245°, POPOUT, 2 1/2" X 2 1/2" X 1". (SEE VT-3C REPORT VT-07-097)

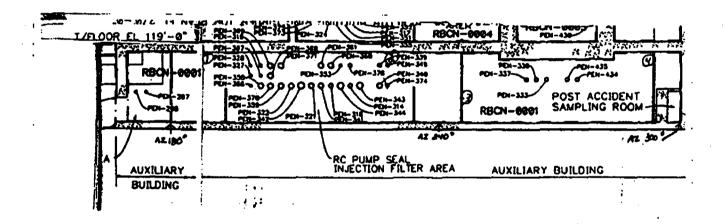
ITEM # 4 (REFERENCE PAGE 1, CONDITION 10) - APPROXIMATE ELEVATION 118', APPROXIMATE AZMUTH 295', VT-1C DETERMINED DISCOLORATION WAS OIL/GREASE (SEE VT-3C REPORT VT-07-097) DUE TO COVER LEAKAGE/PREVIOUS SPILLAGE, NO DEGRADATION TO CONCRETE.



Page: 3 of 3

Summary No.: L1.11,0001

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-201.jpg





## Visual Examination of IWL (VT-3C)

Site/Unit: CR	3 / 3	Proce	dure: NAP-02	Outage No.:	RFO15-IWE
Summary No.:	L1.11.0002	Procedure	Rev.: 2	Report No.:	VT-07-098
Workscope:	ISI	Work Orde	r No.: 681043	Page:	1 of 2
Code: ASME 1992 Ed	. Thru 92 Ad.	Cat./Item: L-A/L	.1.11 Location:	EL. 95' to El	119'
Drawing No.:	S-425-001	Descriptio	n: Concrete Surface		-
System ID: Concrete	Containment				
Component ID: RBCN-00	002			<u></u>	
	ED ALL ACCESSI	BLE AREAS			
Resolution: 1/10th of a			Surface Condition: As	Found	
Visual Equipment/Aids:		la Rinoviera Tana		-	
Inspected From:	Outside Conta		ery/Pits () Both ()	<del></del>	
·		•			
Light Meter Mfg.:	GE Lighting	Serial No.: _		Illumination:	>200ftc
Light Verification Times:	Cal In 🗹	0915 /	1205 /1	1330 Cal Out ₩	1645
Visual Examination:	Direct/Remote	<u> </u>			
		Vent System Or	Containment Surfaces		
Coated Areas 🗶		_	Non-Coated Areas	×	
	Accept Reject	See N/A Comments		Accept Reject	See NA Comments
1) Spalling			12) Reinforcing Bar Cor		10A Odimicing
2) Cracking	X _		13) Rust Bleeding	rosion <u>X</u>	
3) Delaminations	<u>x</u> _		14) Tendon Surface Cra		
4) Honeycomb	X _		15) Efflorescense	X _	
5) Water in Leakage	X _		16) Cosmetic Patch Bor		<del>-</del> -
6) Chemical Leaching	X _		17) Voids	~ <u>~</u> X	
7) Popouts	X _		18) Erosion	<u> </u>	
8) Deflection	_ X		19) Pitting	<u> </u>	
9) Staining	_ <u>x</u>		20) Abrasion	<b>x</b> _	
10) Discoloration	_ <u>x</u>	_	21) Segregation	<u> </u>	<del></del>
11) Vibration Damage	<u> </u>		22) Other		<u>x</u> _
Comments:					
			D MEMO FROM P.E. DAT PPLEMENTAL REPORT)		NING CHANGES
Results: Accep			NCR 250		
Percent Of Coverage Ob	tained > 90%:	N/A	Reviewed Pre		28
Examiner Level [[] Komara, Bernard P.	Signa A D V	iture Dai 10/31/200	1	Signature	1. 1 I
Examiner Level II	B.P. Korra 1 Sigha			Signature	
Sonnier, Jason B.	him da	10/31/200	1		11/22/07
Other Level u	Sign		<del></del>	Signature	
Kissack, Brian S.		10/31/200	7 Tom Wyatt, ANII		11/27/07



Report No.: VT-07-098 Page:

Summary No.: L1.11.0002

Examiner: Komara, Bernard P. BPIC Level:

111

Reviewer: Joe Lese, PE

JBI Examiner: Sonnier, Jason B.

Level: 11

Site Review: Rick Portmann

854 Other: Kissack, Brian S.

Level: H ANII Review: Tom Wyatt, ANII

Comments:

TEM # 1 : (REFERENCE PAGE 1 - CONDITION 17): 8" L X 4" W X 1 1/4" D - VOID AREA (SEE VT-1C REPORT VT-07-118)

ITEM # 2: (REFERENCE PAGE 1 - CONDITION 10): 14" L X 24" W - DISCOLORATION AREA (SEE VT-1C REPORT VT-07-118)

ITEM # 3 : (REFERENCE PAGE 1 - CONDITION 09): 14" L X 24" - STAINING AREA (SEE VT-1C REPORT VT-07-118)

ITEM # 4 : (REFERENCE PAGE 1 - CONDITION 08): 8" L X 4" W X 1" D - DEFLECTION AREA (SEE VT-1C REPORT VT-07-118)



# Visual Examination of IWL (VT-1C)

Site/Unit:CR	3 / 3	Procedure: _	NAP-02	Outage No.:	RF015-IWE		
Summary No.:	L1.11.0002	Procedure Rev.:	2	Report No.:	VT-07-118		
Workscope:	ISI	Work Order No.:		Page:	1 of 5		
Code: ASME 1992 Ed	. Thru 92 Ad. Cat	Item: L-A/L1.11	Location:	EL. 95' to EL.	119'		
Drawing No.:	S-425-001	Description: Cond	rete Surface				
System ID: Concrete	e Containment						
Component ID: RBCN-00	002				***		
	ED ALL ACCESSIBLE	AREAS					
Resolution: 0.044" Cha	racter Card	Surf	ace Condition: As Four	nd			
Visual Equipment/Aids:	1/10" & 1/32" SCALE,	, FLASHLIGHT, TAPEME	ASURE & SPOTLIGHT				
Inspected From:	Outside Containm						
Light Meter Mfg.:	GE Lighting	Serial No.: 06	99 (TI-3375)	Illumination:	>200ftc		
Light Verification Times:	Cal in ☑ 091	5 / 1205	/ 1330	Cal Out 📝	1645		
Visual Examination:	Direct/Remote	_					
		Vent System Or Contain	ment Surfaces				
Coated Areas 🗶			on-Coated Areas 💢		_		
	Accept Reject N/A	See Comments		Accept Reject	See N/A Comments		
1) Spalling	•		einforcing Bar Corrosion				
2) Cracking	X	<del>-</del>	ust Bleeding	<del>-</del> <del>-</del>	X _		
3) Delaminations	X	<del></del>	ndon Surface Cracking		<u>x</u> _		
4) Honeycomb	<u>X</u>	<del></del>	llorescense		<u>x</u> _		
5) Water In Leakage	<u>X</u>	_ , ,	smetic Patch Bond		<u>x</u> _		
6) Chemical Leaching	X			<del>-</del> . <del>-</del>	_ X		
7) Popouts	X	18) Er			<u> </u>		
8) Deflection		<u>X</u> 19) Pil			<u>x</u> _		
9) Staining		X 20) Ab			<u>x</u> _		
10) Discoloration			gregation	<del></del>	<u>x</u> _		
11) Vibration Damage	<u>x</u>	22) Ot			<u>x</u> _		
Comments:							
SEE SUPPLEMENTAL	REPORT						
Results: Accep	t 🗀 Reject 🗀	Eval 🗹	NCA 2560	10			
Percent Of Coverage Ob	tained > 90%:	N/A	Reviewed Previous	·	B		
Examiner Level	Signature	Date Revie	2000	Signature	Date		
	B. P. Kaman	1	Lese, PE		- 11.14.02		
Examiner Level II	Signature		Review	Signature 1	Date		
Ponnier, Jason B.	boon dom		Portmann /	700	11/22/07		
Other Level I	Signature	<b>I</b>	Review	I In I DE TRIVIE	Date		
Kissack, Brian S.		19/31/2007 Tom	Wyatt, ANII	אוו אוו אוו	1/27/07		



						Report No.:	VT-07-118		
		•				Page:	2	of _	5
Summary No.:	L1.11.0002					,			
Examiner:	Komara, Bernard P. /3P/C	Level:	111	Reviewer:	Joe Lese, PE	lask	Date:	1.14.0	ก
Examiner:	Sonnier, Jason B. 785	Level:	11	Site Review:	Rick Portmann	RIP	Date:	11/2	2/07
Other:	Kissack, Brian S.	Level:	11	ANII Review:	Tom Wyatt, ANII			UZZ	

#### Comments:

Item #1 (Reference Page 1 - Condition 17): Approximate Elevation 98'. Approximate Azimuth 345 Degrees. 8" L X 4" W X 1 1/4" D void area. (See VT-3C Report 07-098).

ttem #2 (Reference Page 1 - Condition 10): Approximate Elevation 119'. Approximate Azimuth 55 Degrees. 14' L X 24" W white discoloration area. (See VT-3C Report 07-098).

VT-1C determined that discoloration was due to previous spillage. No degradation to concrete surface identified.

Item #3 (Reference Page 1 – Condition 09): Approximate Elevation 119'. Approximate Azimuth 05 Degrees. 14' L X 24" W dark staining area. (See VT-3C Report 07-098).

VT-1C determined that discoloration was oil/grease due to tendon cover leakage/previous spillage. No degradation to concrete surface identified. Note: this condition is typical for all buttress surfaces. RE: Photo L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-118-2.\pg.

ttem #4 (Reference Page 1 – Condition 08): Approximate Elevation 99'. Approximate Azimuth 45 Degrees. 18" L X 4" W X 1" D deflection area. (See VT-3C Report 07-098). VT-1C determined that this condition is probably due to form slippage during initial construction. Tap testing indicated presence of sound concrete beyond 1" from the edge.

RE: Photo L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL PhotosVT-07-118-3.ipg.



Report No.:

VT-07-118

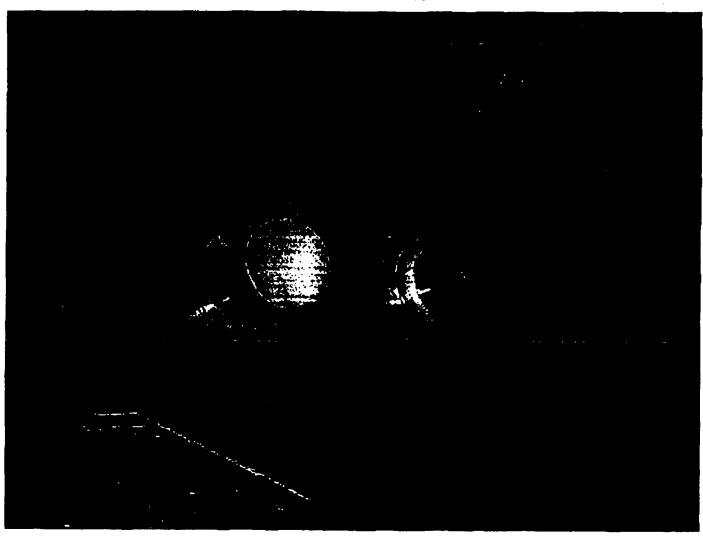
Page:

3 (

of <u>5</u>

Summary No.: L1.11,0002

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Report No.:

VT-07-118

Page:

4

of <u>5</u>

Summary No.: L1.11.0002

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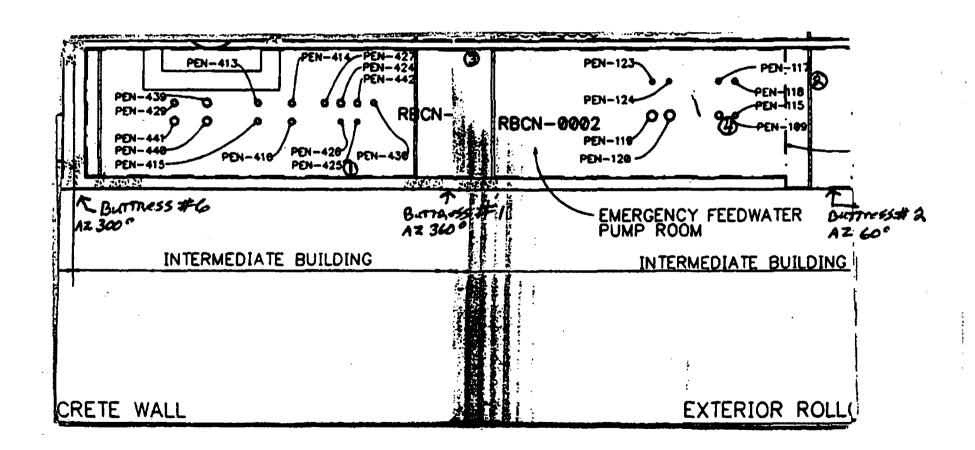


Report No.: VT-07-118

Page: 5 of 5

Summary No.: L1.11.0002

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# Visual Examination of IWL (VT-3C)

Site/Unit: CR3	/ 3	Procedu	re: NAP-02	Outage No.:	RFO15-IWE	
Summary No.:	L1.11.0003	Procedure Re	ov.:2	Report No.:	VT-07-099	
Workscope:	ISI	Work Order N	lo.: <u>681043</u>	Page:	1 of 3	
ode: ASME 1992 Ed.	Thru 92 Ad. Ca	at./ltem: L-A/L1.	11 Location:	EL. 95' to EL.	119'	
Orawing No.:	S-425-001	Description:	Concrete Surface			
System ID: Concrete	Containment					
Component ID: RBCN-00	03					
	D ALL ACCESSIB	LE AREAS				
Resolution: 1/10th of a	n inch		Surface Condition: As Fo	ound		
Visual Equipment/Aids: (	Flashlight, 6° Scal	e, Binoculars, Tape A	leasure, Spotlight.			
Inspected From:	Outside Contai		/Pits O Both O			
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	> 200	
Light Verification Times:	Cal In 🕢	915/	1205 / 133	Cal Out 🛂 _	1645	
Visual Examination:	Direct/Remote					
		Vent System Or C	ontainment Surfaces			
Coated Areas 🗶		See	Non-Coated Areas		See	
	Accept Reject N			Accept Reject		
1) Spalling	<b>x</b> .		12) Reinforcing Bar Corros	ion <u>X</u> _	<u> </u>	
2) Cracking	<u>x</u>	<del>-</del>	13) Rust Bleeding	<u> </u>		
3) Delaminations	<u> </u>	<del>_</del>	14) Tendon Surface Cracki			
4) Honeycomb	<u> </u>	_	15) Efflorescense	<u>x</u> _		
5) Water in Leakage	<u> </u>		16) Cosmetic Patch Bond	<u>x</u> _		
6) Chemical Leaching	<del>*</del> – :		17) Voids	X _		
7) Popouts			18) Erosion			
•	_ <b>X</b> .	<del></del>		<b>X</b> _		
8) Deflection	<u> </u>		19) Pitting	<u>x</u> _		
9) Staining	_ X .		20) Abrasion	X _	<del></del>	
10) Discoloration	<b>X</b>	:	21) Segregation	<u>x</u> _		
11) Vibration Damage	<u> </u>		22) Other	X		
			MEMO FROM P.E. DATED E SUPPLEMENTAL REPO		VING CHANGES	
Results: Accep	_	-	NCR 256010	•		
Percent Of Coverage Ob	etained > 90%:	N/A	Reviewed Previo	us Data: Ye	8	
Examiner Level [[]	Signal	ture Date	Reviewer	▲ Signature	Date	
Komara, Bernard P.	B.P. Koma		1	la de		
Examiner Level II	Signal		<del>}</del>	Signature	11.150) Date	
Sonnier, Jason B.	him som			d 12	/ /	
Other Level	Signat			Signature	11 [27 [0] Date	
Kissack, Brian S.	Bin'l	// 4004 0007	Tom Wyatt, ANII	ALBOO STATE	11/27/07	



Report No.: VT-07-099 Page:

Summary No.: L1.11.0003

Examiner: Komara, Bernard P. BPK

Level: 111

Reviewer: Joe Lese, PE

Date: 11.15

JBS Examiner: Sonnier, Jason B.

П Level:

11

Site Review: Rick Portmann

Date:

Other: Kissack, Brian S.

Level:

ANII Review: Tom Wyatt, ANII

#### Comments:

Item #1 (Reference Page 1 - Condition 22): Two (2) -24" L X ¾" Dia. threaded rods protruding. (See VT-1C Report VT-07-130)

Item #2 (Reference Page 1 - Condition 22): One (1) ~%" Dia. Braided grounding cable protruding. (See VT-1C Report VT-07-130)

Item #3 (Reference Page 1 - Condition 04): 6" L X 4" W X 1-1/4" Deep honeycombed area. (See VT-1C Report VT-07-130).

item #4 (Reference Page 1 - Condition 22): Multiple abandoned anchor and embedded wire locations. (See VT-1C Report VT-07-130)

Hem #5 (Reference Page 1 - Condition 07): Four (4) popout locations. (See VT-1C Report VT-07-130).

Item #6 (Reference Page 1 - Condition 22): Wood embedment in concrete. (See VT-1C Report VT-07-130).

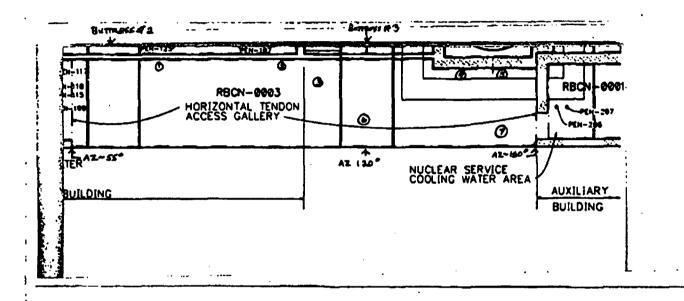
Item #7 (Reference Page 1 - Condition 09): Staining of concrete. (See VT-1C Report VT-07-130).



Report No.: VT-07-099
Page: 3 of 3

Summary No.: L1.11.0003

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# Visual Examination of IWL (VT-1C)

Site/Unit: CF	3 / 3	Pro	cedure: NAP	-02 Outage	No.: RFO15-IWE
Summary No.:	L1.11.0003	Procedu	re Rev.: 2	Report	No.: <u>VT-07-130</u>
Workscope:	ISI	Work Or	der No.: 6810	943 Pa	age: 1 of 6
Code: ASME 1992 Ed	1. Thru 92 Ad.	Cat/Item: L-A	VL1.11 Location	EL. 95' to	o EL. 119'
Drawing No.:	S-425-001	Descrip	tion: Concrete Surface		
System ID: Concret	e Containment				
Component ID: RBCN-0	003				
Limitations: EXAMIN	ED ALL ACCESS	IBLE AREAS			
Resolution: 0.044" Chi	aracter Card		Surface Condition	n: As Found	
Visual Equipment/Aids:	1/10" & 1/32" SC	ALE, FLASHLIGHT	, TAPE MEASURE & SI	POTLIGHT	
Inspected From:	Outside Con		<del></del>	h ()	
Light Meter Mfg.:	GE Lighting	Serial No	. •	Illumination:	: > 200ftc
Light Verification Times:		0915 /	1205 /	1330 Cal Out	
Visual Examination:	Direct/Remot	<del></del>			
VISUAL EXEMPLIATION.	Dijeconemo			·	
		Vent System (	Or Containment Surfac		
Coated Areas 🗶		See	Non-Coated Are	eas 🗶	See
	Accept Reject	N/A Comments		Accept Re	eject N/A Comments
1) Spalling		<b>x</b> _	12) Reinforcing Bar	Corrosion	_ X _
2) Cracking		<b>x</b> _	13) Rust Bleeding		_ X _
<ol><li>Delaminations</li></ol>		<u>x</u> _	14) Tendon Surface	Cracking	_ X _
4) Honeycomb		X	15) Efflorescense	•	_ X _
5) Water In Leakage		X	16) Cosmetic Patch	Bond	_ X _
(6) Chemical Leaching	·	X _	17) Voids		_ <u>x</u> _
7) Popouts		_ <u>x</u>	18) Erosion	. —	_ <u>x</u> _
8) Deflection		<u>x</u> _	19) Pitting		_ <u>x</u> _
9) Staining		<u> </u>	20) Abrasion	<del>-</del>	
10) Discoloration		_	21) Segregation		_ <u>X</u> _
11) Vibration Damage		<u>x</u> —	22) Other	_	- X -
Comments: SEE SUPPLEMENTAL	REPORT	<u>x</u> _	Ety Guille	<u> </u>	<u> </u>
Results: Accep	ot 🗌 Reject	☐ Eval 🗭	NCR 256	0/0	
Percent Of Coverage O	btained > 90%:	N/A		Previous Data:	Yes
Examiner Level []]	, <b>"</b> Sign		Date Reviewer	Signa	iture Date
Komara, Bernard P.	B.P. Kom		1007 Joe Lese, PE	la sh	# 11.1507
Examiner Level II	// Sign	appre l	Date Site Review	Signa	
Sonnier, Jason B.	Mun fr	10/31/2	2007 Rick Portmann	XX1 /h/	11/22/07
Other Level II	Sign	<i>-</i> •/	Date ANII Review	Add as Signa	iture Date
Kissack, Brian S.	Blak	10/31/2	1907 Tom Wyatt, ANII	MUMUD	11/27/57
	(			II	, , .



							V1-07-130		
		`		•	Page:	2	of <u>6</u>		
.11.0003					,	•			
omara, Bernard P.	BPIC	Level:	111	Reviewer:	Joe Lese, PE	Date:	11.160)		
nnier, Jason B.	JBS	Level:	11	Site Review:	Rick Portmann 00/0	Date:	11/22/07		
ssack, Brian S.	BH	Level:	11	ANII Review:	Tom Wyatt, ANII	Date:	11/27/07		
	mara, Bernard P. nnier, Jason B.	mara, Bernard P. <u>BP/C</u> nnier, Jason B. JBS	mara, Bernard P. BP/C Level:	mara, Bernard P. BPIC Level: III	mara, Bernard P. BP/C Level: III Reviewer: nnier, Jason B. JBS Level: II Site Review:	.11.0003 mara, Bernard P. BP/C Level: III Reviewer: Joe Lese, PE nnier, Jason B. J 35 Level: II Site Review: Rick Portmann	Page: 2  .11.0003  mara, Bernard P. BPIC Level: III Reviewer: Joe Lese, PE Date: nnier, Jason B. JBS Level: II Site Review: Rick Portmann Date:		

#### Comments:

Item #1 (Reference Page 1 – Condition 22): Approximate Elevation 117'. Approximate Azimuth 80 Degrees. Two (2) ~24" L X ¾" Diameter. threaded rods protruding. (See VT-3C Report VT-07-099). VT-1C determined light corrosion of rods and no degradation to concrete surface.

ttem #2 (Reference Page 1 – Condition 22): Approximate Elevation 117'. Approximate Azimuth 100 Degrees. One (1) ~%" Dia. Braided grounding cable protruding. (See VT-3C Report VT-07-099). VT-1C determined no degradation to concrete surface.

Item #4 (Reference Page 1 – Condition 22): Approximate Elevation 117'. Approximate Azimuth 140 Degrees. Multiple abandoned anchor and embedded wire locations. (See VT-3C Report VT-07-099). VT-1C determined that there is no rust staining or additional degradation to the concrete surface.

Item #5 (Reference Page 1 – Condition 07): Approximate Elevation 117'. Approximate Azimuth 150 Degrees. Four (4) popout locations each ~ 3" Diameter and ~ ¾" Deep. (See VT-3C Report VT-07-099). VT-1C determined that these popouts probably resulted from extraction of embedded anchors. No rust staining or exposed rebar was identified in these areas.

ttem #6 (Reference Page 1 ~ Condition 22): Approximate Elevation 105'. Approximate Azimuth 120 Degrees. 18" L X ¾" W
) wood embedment in concrete. Located at center vertical joint of Buttress #3. (See VT-3C Report VT-07-099). VT-1C determined that this condition resulted from failure to totally remove a forming strip during construction. No concrete degradation was identified.



Report No.: VT-07-130

Page:

Summary No.: L1.11.0003

Examiner: Komara, Bernard P.

Level:

Reviewer: Joe Lese, PE

Date: 11.15.0

Examiner: Sonnier, Jason B.

Level:

Site Review: Rick Portmann

Date:

Other: Kissack, Brian S.

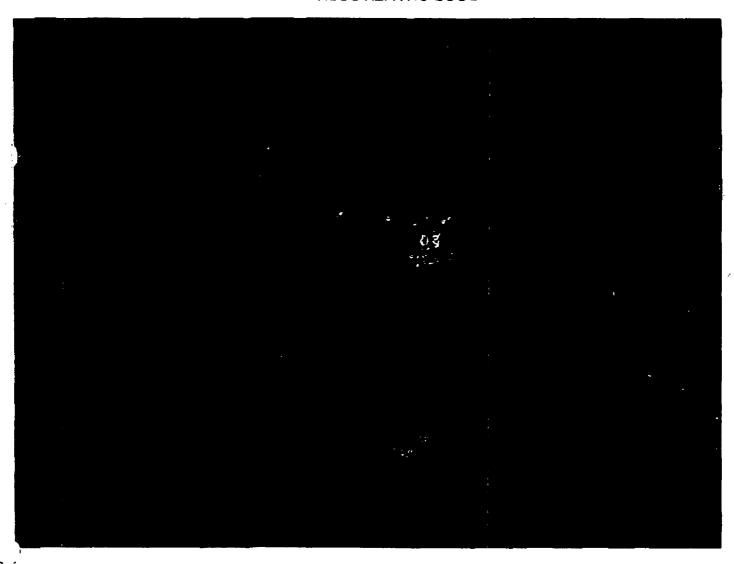
11 Level:

ANII Review: Tom Wyatt, ANII

Comments: Item #3 (Reference Page 1 - Condition 04): Approximate Elevation 114'. Approximate Azimuth 110 Degrees. 6" L X 4" W X 1-1/4" Deep honeycombed area. (See VT-3C Report VT-07-099). VT-1C determined that there is no rust staining, exposed rebar, or additional degradation to the concrete surface identified.

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Report No.: VT-07-130

Page:

Summary No.: L1.11.0003

Examiner: Komara, Bernard P.

Level:

Reviewer: Joe Lese, PE

JBS Examiner: Sonnier, Jason B.

Level:

Site Review: Rick Portmann

Date: y

Other: Kissack, Brian S.

Level:

ANII Review: Tom Wyatt, ANII

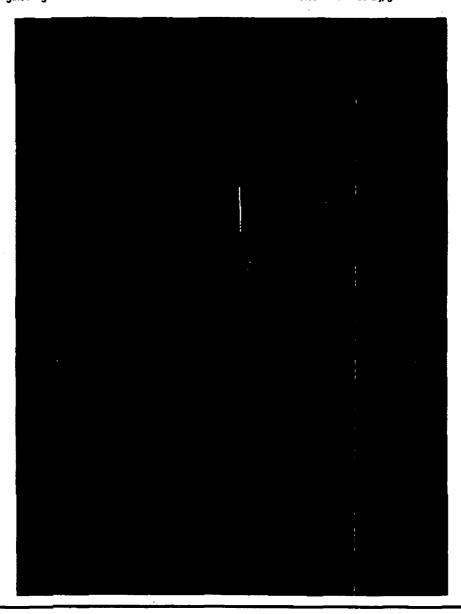
Date: //

Comments: Item #7 (Reference Page 1 - Condition 09): Approximate Elevation 100', Approximate Azimuth 150 Degrees, Staining of concrete. (See VT-3C Report VT-07-099). VT-1C determined that a 10' L crack (<.040") exists and that a fluid suspected to be grease or oil is seeping from the crack. Paint has partially

delaminated at this location. The substance was wiped off and re-emerged. There is a small puddle of the

fluid on the floor at this location.

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Report No.:

VT-07-130

Summary No.: L1.11.0003

Examiner: Komara, Bernard P.

Level: (1) Level:

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

Other: Kissack, Brian S.

Examiner: Sonnier, Jason B.

Level:

ANII Review: Tom Wyatt, ANII

Comments: PHOTOS ASSOCIATED WITH ITEM #7.

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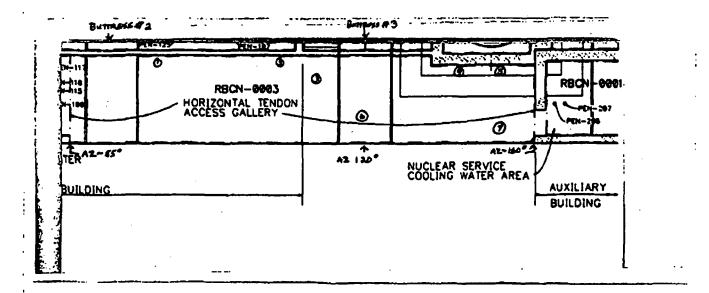


Report No.: VT-07-130

Page: 6 of 6

Summary No.: **L1.11.0003** 

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# Visual Examination of IWL (VT-3C)

Sheroin. Ch.	· · · · · · · · · · · · · · · · · · ·		INAP-UZ	— Oulage No	NPO 13-11/E
Summary No.:	L1.11.0003	Procedure Re	žv.:2	Report No.:	VT-07-131
Workscope:	ISI	Work Order N	lo.: 681043	_ Page: _	1 of 2
Code: ASME 1992 Ed	. Thru 92 Ad. Ca	t/ltem: L-A/L1.	11 Location:	EL. 95' to EL.	119'
Drawing No.:	S-425-001	Description:	Concrete Surface		
System ID: Concrete	Containment				
Component ID: RBCN-00	<del></del>				·
		L ACCESSIBLE ARE	AS		
Resolution: 1/10th of a			Surface Condition: As Found	<u> </u>	
Visual Equipment/Aids:	Flashlight, 6° Scale	. Tape Measure. Spo			
Inspected From:	Outside Contair		/Pits () Both (e)	·	
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	> 200ftc
Light Verification Times:			N/A / N/A	Cal Out 🗹	1150
		7	/	carout & _	1130
Visual Examination:	Direct	<del></del>			
		Vent System Or Co	ontainment Surfaces		
Coated Areas		See	Non-Coated Areas 🗶		See
	Accept Reject N			Accept Reject	N/A Comments
1) Spalling	<u> </u>	_ 1	2) Reinforcing Bar Corrosion		<b>x</b> _
2) Cracking	$\overline{\mathbf{x}}$ $\overline{\mathbf{z}}$	1	3) Rust Bleeding		<u>x</u> _
3) Delaminations	<u>x</u>	1	4) Tendon Surface Cracking		<u>x</u> _
4) Honeycomb	<b>x</b>	1	5) Efflorescense		_ X
5) Water in Leakage	<u>x</u>	_ · 1	6) Cosmetic Patch Bond		<u>x</u> _
6) Chemical Leaching	<u>x</u>	1	7) Voids		<u>x</u> _
7) Popouts	X	1	8) Erosion		<u>x</u>
8) Deflection	X	1	9) Pitting		<u>x</u>
9) Staining	X	2	0) Abrasion	<u> </u>	<u>x</u> _
10) Discoloration	X	2	1) Segregation		<u>x</u>
11) Vibration Damage	X	2	2) Other		_ <b>x</b>
	TED. SEE SUPPLE	MENTAL REPORT F	MEMO FROM P.E. DATED 9/4 OR ADDITIONAL INFORMATION		ATA VERIFIED
Percent Of Coverage Ob	tained > 90%:	N/A	Reviewed Previous D	oata: Ye	3
Examiner Level III Komara, Bernard P.	B.P. Kanan	ر 11/5/2007		Signature 2	Date いいらっつ
Examiner Level N/			Site Review Rick Portmann	Signature	11   22   O7
Other Level N/A	Signatu	re Date	ANII Review Tom Wyatt, ANII	Signature	Date ///27/07



Summary No.: L1.11.0003

Examiner: N/A

Other: N/A

Examiner: Komara, Bernard P.

## **Supplemental Report**

		Report No.:	VT-07-131		
		Page:	2	of <u>2</u>	
Reviewer:	Joe Lese, PE	box	Date:	11.15.07	
Site Review:	Rick Portmann	PIP	Date:	$\overline{}$	

Date:

Comments:

THE S-425-XXX SERIES DRAWINGS DO NOT CONTAIN A DRAWING FOR THE TENDON GALLERY CEILING WHICH IS WITHIN THE IWL BOUNDARY (ELEVATION BELOW 93', IB/AB. IN ADDITION, THERE IS NOT AN ITEM IN IDDEAL TO TRACK THIS AREA FOR REQUIRED EXAMS.

ANII Review: Tom Wyatt, ANII

Level:

Level:

Level: N/A

111

NA



# Visual Examination of IWL (VT-3C)

Site/Unit: CR	3 / 3	Procedu	re: NAP-02	Outage No.:	RFO15-IWE
Summary No.:	L1.11.0004	Procedure Re	v.: <u>2</u>	Report No.:	VT-07-100
Workscope:	ISI	Work Order N	681043	Page:	1 of <u>2</u>
Code: ASME 1992 Ed	. Thru 92 Ad. Ca	t/item: L-A/L1.	11 Location:	EL. 119' to EL	. 143'
Drawing No.:	S-425-002	Description:	Concrete Surface		
System ID: Concrete	Containment				
Component ID: RBCN-00					
	ED ALL ACCESSIBI	LE AREAS			
Resolution: 1/10th of a			Surface Condition: As Fou	and	
<u> </u>		Pinceulare Tape M	· · · · · · · · · · · · · · · · · · ·		
Visual Equipment/Aids:					
Inspected From:	Outside Contain		Pits Both		
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	> 200ftc
Light Verification Times:	Cal In 🕢0	900/1	145 / 1300	Cal Out 🗹 _	1600
Visual Examination:	Direct/Remote				
		Vent System Or Co	ontainment Surfaces		
Coated Areas 🗶		_	Non-Coated Areas 🗶		
	Accept Reject N	See		Accept Reject	See NA Comments
4) Coolling	• •		2) Pointarrian Par Carraia	• •	IVA Comments
1) Spalling	<del></del>		2) Reinforcing Bar Corrosion 3) Bust Blooding		
Cracking     Delaminations	<del>x</del>		3) Rust Bleeding 4) Tondan System Constinu	<u> </u>	
•	<del>~</del>	_	4) Tendon Surface Cracking		
4) Honeycomb	<del>x</del>		5) Efflorescense	<u>x</u>	· <b>—</b> —
5) Water in Leakage	<del>x</del>		6) Cosmetic Patch Bond	<u>x</u> _	
6) Chemical Leaching	<u>x</u>	<del>_</del>	7) Voids	<u>x</u> _	
7) Popouts	<u>x</u>		8) Erosion	<u>x</u> _	
8) Deflection	<u>x</u>	- <i>-</i>	9) Pitting	X	
9) Staining	X	_	0) Abrasion	X _	
10) Discoloration	<u>x</u> – –		1) Segregation	<u>x</u> _	
11) Vibration Damage	<u>x</u>	2	2) Other		<u> </u>
			MEMO FROM P.E. DATED 9	14/01. PREVIOUS D	ATA WAS
Results: Accep					
			Desta ad Desta		
Percent Of Coverage Ob	tained > 90%:	N/A	Reviewed Previous	Data: Ye	\$ 
Examiner Level II	Signatu	,	Reviewer	Signature	Date
LeBlanc, Marc J.	M ISE	10/30/2007	Joe Lese, PE	10 de	11.14.0
Examiner Level	Gignatu		Site Review	Signature	Date
Puplechain, Lenus F.	ye y	10/30/2007	Rick Portmann		11/27/07
Other Level N/	Signatu	re Date	ANII Review Tom Wyatt, ANII	Signature Signature	Date 11/27/07
IVA			TOTAL TYPELL, ANII	MUU)	11/2/10



Report No.:

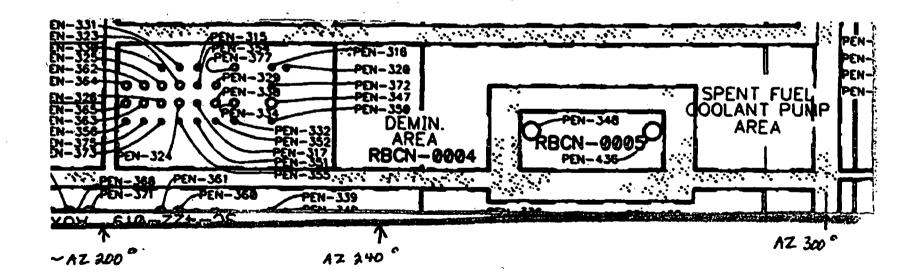
VT-07-100

Page: \_

2 of 2

Summary No.: L1.11.0004

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-100.jpg





# Visual Examination of IWL (VT-3C)

Site/Unit: CH	3 / 3		rocedure:	NAP-02	Outa	ge No.: _	HPC	)15-IWE
Summary No.:	L1.11.0005	Proced	lure Rev.:	2	Верс	ort No.: _	VT-	-07-101
Workscope:	ISI	Work C	Order No.:	681043		Page:	1_	of <u>3</u>
Code: ASME 1992 Ed	. Thru 92 Ad.	Cat./Item: L	-A/L1.11	Location:	EL. 11	9' to EL	129'	
Drawing No.:	S-425-002	Descr	iption: Concr	ete Surface; Only	accessible via	fuel tra	nsfer	tube inspec
System ID: Concrete	Containment							
Component ID: RBCN-00	05			-				
Limitations: EXAMINI	ED ALL ACCESS	BLE AREAS						
Resolution: 1/10th of a	n inch		Surfa	ce Condition: As Fo	ound			
Visual Equipment/Aids:	Flashlight, 6" Sc	ale, Binoculars, 1	Tape Measuro	, Spotlight.				
Inspected From:	Outside Conta	ainment (	Gallery/Pits (	Both (				
Light Meter Mfg.:	GE Lighting	Serial N	_	9 (TI-3375)	Illuminati	on:	> 2	00ftc
Light Verification Times:	<del></del>	0745 /	N/A	/ N/	A Calc	 Out [☑]		1030
Visual Examination:	Direct/Remote	<del></del>						
Visuai Examination.	Directivenion							
		Vent System		nent Surfaces				
Coated Areas 🗶		See	Nor	-Coated Areas 🗶	•			See
	Accept Reject	N/A Comments	1		Accept	Reject	N/A	Comments
1) Spalling	<u>x</u> _		12) Rei	nforcing Bar Corros	ion <u>X</u>		_	
2) Cracking	<u>x</u> _		- 13) Rus	t Bleeding	<u>X</u>	_		
3) Delaminations	<b>X</b>		14) Ter	don Surface Crack	ing 🗶	_	_	_
4) Honeycomb	<u>x</u> _		15) EM	prescense	X	_		_
5) Water In Leakage	<u>x</u> _		16) Cos	metic Patch Bond	<b>X</b> .	_	_	
6) Chemical Leaching	<u>x</u> _		17) Voi	is	<b>X</b> .	_		_
7) Popouts	<u>x</u> _		18) Ero	sion	X			
8) Deflection	<u>x</u> _		19) Pitti	ng	<b>.X</b> .			<u></u>
9) Staining	_ X		20) Abr	asion	X		Ξ	
10) Discoloration	<b>X</b> _		21) Seg	regation	X		_	
11) Vibration Damage	<b>x</b> _		22) Oth	er	_		$\overline{\mathbf{x}}$	
Comments:					<u>.</u>			
RECORDING CRITERIA CHANGES TO PREVIOU						FOLLO	WING	
Results: Accep	t 🗌 Reject	[_] Eval 🗹	μl	R 256010				
Percent Of Coverage Ob	tained > 90%:	N/A	<u></u>	Reviewed Previo	us Data:	Ye		_
Examiner Level III	Signa	ature	Date Revio	ver	, Sie	nature		Date
Komara, Bernard P.	B.P. Kem	<u>un</u> 11/2	/2007 Joe L	ese, PE	1 ^	Le		11.22.07
Examiner Level II	- Signa		Date Site R	eview	(A) (Pri	nature	1	Date
Sonnier, Jason B.	Ha prin			ortmann	SL 14	1	$\perp$	11/22/07
Other Level II	Sign		Date ANII F		edal a Rest	nature	$I^{-}$	Date
Kissack, Brian S.	intell	11/2	/2007 Tom \	Vyatt, ANII	MINLARY)		<b>7</b>	/VZT/OZ



Report No.: Page:

Summary No.: L1.11.0005

Examiner: Komara, Bernard P. BPIC

Level:

Reviewer: Joe Lese, PE

Examiner: Sonnier, Jason B.

Level: ll

Site Review: Rick Portmann

Date:

Other: Kissack, Brian S.

# Levei:

ANII Review: Tom Wyatt, ANII

Date:

Comments:

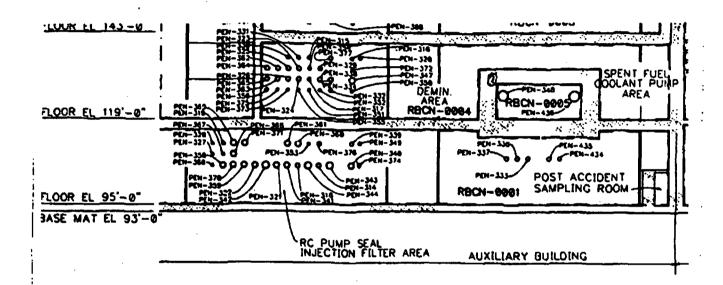
(tem #1 (Reference Page 1 - Condition 09): Staining. (See VT-1C Report VT-07-304).



Page: 3 of 3

Summary No.: L1.11.0005

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\RBCN-0005.jpg



EXTERIOR ROLLOUT CONTAINMENT CONCRE

NOTES:

TRECN-XXXX DENOTES CONCRETE COMPONENT ID.
DENOTES BOUNDARY OF CONCRETE COMPONENT



# Visual Examination of IWL (VT-1C)

Site/Unit: CR	3 / 3	Procedure:	NAP-02	Outage No.:	RFO15-IWE
Summary No.:	L1.11.0005	Procedure Rev.:	2	Report No.:	VT-07-304
Workscope:	ISI	Work Order No.:	681043	Page:	1 of 2
Code: ASME 1992 Ed	. Thru 92 Ad. Cat./ite	m: <b>L-A/L1.11</b>	Location:	EL. 119' to EL	. 129'
Drawing No.:	S-425-002	Description: Conc	rete Surface; Only acc	essible via fuel tra	nsfer tube inspec
System ID: Concrete	- Containment				
Component ID: RBCN-00	005		· · · · · · · · · · · · · · · · · · ·		
·	ED ALL ACCESSIBLE A	REAS			
Resolution: 0.044" Cha	racter Card	Surfa	ice Condition: As Foun	d	
Visual Equipment/Aids:	Flashlight, 6" Scale, Bir	 noculars, Tape Measur	e, Spotlight.	· · · · · · · · · · · · · · · · · · ·	
Inspected From:	Outside Containmen				
Light Meter Mfg.:	GE Lighting	Serial No.: 069	99 (TI-3375)	Illumination:	> 200ftc
Light Verification Times:	Cal In 🕢0745	/NA	/NA	Cal Out 🕼	1030
Visual Examination:	Direct/Remote	•		_	
<u></u>	Ve	ent System Or Contain	ment Surfaces		
Coated Areas 🗶			n-Coated Areas 🗶		_
	Accept Reject N/A	See Comments		Accept Reject	See N/A Comments
1) Spalling	X		inforcing Bar Corrosion		
2) Cracking	<del>X</del>	_	st Bleeding		<u>x</u> _
3) Delaminations	X	_	ndon Surlace Cracking		<u>X</u> _
4) Honeycomb			lorescense		<u>x</u> _
5) Water in Leakage	<del>X</del>	•	smetic Patch Bond		<u>x</u> _
6) Chemical Leaching	<del>X</del>	17) Vo			<u>x</u> _
7) Popouts	<del>X</del>	18) Erc			<u>x</u> _
8) Deflection	X	19) Pit			<u>x</u> _
9) Staining			<u> </u>	· – –	<u> </u>
10) Discoloration	<u> </u>	<del></del>	gregation		
11) Vibration Damage	X				<u>x</u> _
Comments:	· · · · · · · · · · · · · · · · · · ·				
SEE SUPPLEMENTAL I	REPORT				
Results: Accep	nt	Eval 🗹 🖊	R 256010		
Percent Of Coverage Ob	otained > 90%:	N/A	Reviewed Previous I	Data: Ye	s
Examiner Level [[]	Signatura	Date Revie		Si-patura	Data
Komara, Bernard P.	Signature B.P. Komma		ese, PE	O. Signature	Date   .22.✔)
Examiner Level II	Signature		Review	Signature	/ Date
Sonnier, Jason B.	for form		Portmann	006	11 (22 07
Other Level [] Kissack, Brian S.	Signature	<b>-</b>	Review	Bignature	Date
LINESSON, DURING.		11/2/2007 Tom	TYPELL, AIRLI [1]		£(/)7(/07



Report No.:	VT-07-304			
Pane.	2	of	2	

Summary No.: L1.11.0005

Examiner: Komara, Bernard P. BPIL

Other: Kissack, Brian S.

Level: Examiner: Sonnier, Jason B. Level:

Site Review: Rick Portmann

Reviewer: Joe Lese, PE

ANII Review: Tom Wyatt, ANII

Date: 4-22

Date:

Comments:

Item #1 (Reference Page 1 - Condition 09): Staining. (See VT-3C Report VT-07-101). VT-1C determined that the stains are as a result of previous spillage from above (143' elevation). No additional degradation to the concrete surface was noted.

111

11

II

Level:

# NGG Nuclear Generation Group

# Visual Examination of IWL (VT-3C)

Site/Unit: CR	3 / 3		rocedure: N/	4P-UZ	- Oulaț	la 140" -	nru	113-IAAE
Summary No.:	L1.11.0006	Proced	fure Rev.:	2	Repo	on No.:	VT-	07-102
Workscope:	ısı	Work (	Order No.: 68	1043	_	Page: _	1	of <u>2</u>
Code: ASME 1992 Ed.	Thru 92 Ad.	Cat/Item: L	-A/L1.11 Locati	on:	EL. 11	9' to EL.	143'	
Drawing No.:	S-425-001	Desc	ription: Concrete Surfa	ICO				
System ID: Concrete	Containment							_
Component ID: RBCN-00	 906							
	D ALL ACCESS	IBLE AREAS						
Resolution: 1/10th of a	n inch		Surface Condit	ion: As Found	<del></del>			
Visual Equipment/Aids: I		ale Binoculars	- Tane Measure, Spotlic					
•	Outside Con			Both ()				
Inspected From:		•	•	_	494 · 1 1		•	00 <b>0</b> -
Light Meter Mfg.:	GE Lighting	Serial 1			Illuminati	_		00ftc
Light Verification Times:	Cal in 🗹	1410 /	<u>N/A</u> / _	N/A	Cal (	Out 🕢 _	1	640
Visual Examination:	Direct/Remot	<u>e</u>			•			
		Vent System	n Or Containment Sur	faces				-
Coated Areas X			Non-Coated	Areas 🗶				
	Assent Poince	See			Accept	Dajact	NA	See Commen
4) Casllian	•	N/A Comments		Par Carracian	-	nejeci	147	Commen
1) Spalling	<u> </u>		<ul><li>12) Reinforcing I</li><li>13) Rust Bleedin</li></ul>		X			_
2) Cracking	<u>x</u> –		14) Tendon Surf	_	X	-	_	_
3) Delaminations	<u>x</u> –	-	15) Efflorescens	_	X		_	_
4) Honeycomb	<u>x</u> –		·		X	_	_	_
5) Water In Leakage	<b>X</b> —		16) Cosmetic Pa	ton Bond	<u> </u>		_	_
6) Chemical Leaching	<b>X</b>	<b>–</b> – ·	17) Voids		X		_	
7) Popouts	_ X		18) Erosion		X		_	
8) Deflection	<u>x</u> _		19) Pitting		X		_	<u> </u>
9) Staining	<b>x</b> _		20) Abrasion		X			_
10) Discoloration	_ <b>x</b>		21) Segregation		<b>X</b> .		_	
11) Vibration Damage	<u>x</u> _	<del>-</del> -	22) Other		X	_	_	
Comments:  RECORDING CRITERIA  CHANGES TO PREVIOUS  Results: Accep	USLY ID <b>ENTI</b> FIE	D CONDITIONS N	IOTED, SEE SUPPLEM			FOLLO	WING	
Percent Of Coverage Ob		NA NA	- <u></u>	ved Previous D	ata:	Ye	8	
- alcell Of Coverage Of						7=		
Examiner Level	Sign	nature	Date Reviewer			nature		Dat
LeBlanc, Marc J.	12/19		1/2007 Joe Lese, PE		m (b.			11-17-0
Examiner Level []	Sigr	latuse 102	Date Site Review	$\mathcal{A}$	1 /§	gnature		Dat
Ouplechain, Lenus F.	Ja Sy		1/2007 Rick Portman		<del>+ \</del>	$\stackrel{\smile}{\longrightarrow}$	. 1	1/22/07
Other Level N	A Sign	ature	Date ANII Review Wyatt, Thoma	w I/N/M	libet	gnat <b>ure</b>	,	Dat (/27/01
N/A			tvyatt, i noma	P 47.	ww.		<u> </u>	(1.211.D)



Report No.:	.: VT-07-10			
Page.	2	of	2	

Summary No.: L1,11.0006

Examiner: LeBlanc, Marc J.

MIL Level: Reviewer: Joe Lese, PE

Examiner: Duplechain, Lenus F.

II Level: H NA

Site Review: Rick Portmann

Other: N/A

Level:

ANII Review: Tom Wyatt, ANII

Date: //

#### Comments:

ITEM # 1 (REFERENCING PAGE # 1 CONDITION 1) SPALL, 5.5" X 5.5" SEE VT-1C REPORT VT-07-203.

ITEM # 2 (REFERENCING PAGE # 1 CONDITION 1) SPALL, 8" X 4" SEE VT-1C REPORT VT-07-203.

ITEM # 3 (REFERENCING PAGE # 1 CONDITION 7) POPOUT, 4" X 3" X 1" SEE VT-1C REPORT VT-07-203.

ITEM # 4 (REFERENCING PAGE # 1 CONDITION 7) POPOUT, 4" X 3" X 1" SEE VT-1C REPORT VT-07-203.

ITEM # 5 (REFERENCING PAGE # 1 CONDITION 1) SPALL, 6" X 5" SEE VT-1C REPORT VT-07-203.

ITEM # 6 (REFERENCING PAGE # 1 CONDITION 10) DISCOLORATION, 30' X 3' SEE VT-1C REPORT VT-07-203.

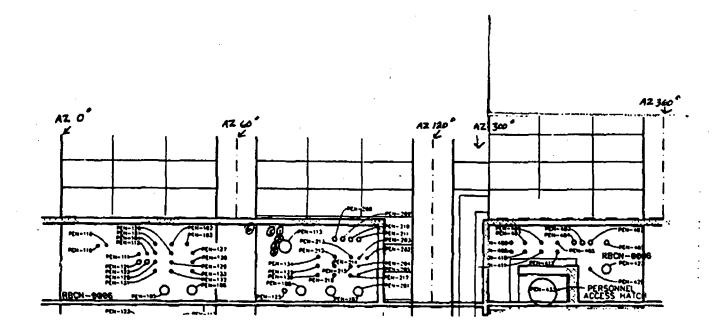


Report No.: VT-07-102

Page: 3 of 3

Summary No.: L1.11.0006

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# **Visual Examination of IWL (VT-1C)**

Site/Unit: CR	3 / 3	Procedure:	NAP-02	Outage No.:	RF015-IWE
Summary No.:	L1.11.0006	Procedure Rev.:	2	Report No.:	VT-07-203
Workscope:	ISI	Work Order No.:	681043	Page:	1 of 3
Code: ASME 1992 Ed	. Thru 92 Ad. Cat/Ite	em: L-A/L1.11	Location:	EL. 119' to EL	. 143'
Drawing No.:	S-425-001	Description: Conc	rete Surface		
System ID: Concrete	e Containment				
Component ID: RSCN-00	206				
Limitations: EXAMINI	ED ALL ACCESSIBLE S	SURFACES		-	
Resolution: 0.044* Cha	racter Card	Surfa	ace Condition: As Four	nd	
Visual Equipment/Aids:	Flashlight, 6° Scale, Bi	noculars, Tape Measui	e, Spotlight.		
Inspected From:	Outside Containme	nt   Gallery/Pits (	) Both ()		
Light Meter Mfg.:	GE Lighting		99 (TI-3375)	Illumination:	> 200ftc
Light Verification Times:	Cal In ☑ 1410	/ N/A	/ N/A	Cal Out 🔽	1640
Visual Examination:	Direct/Remote				
	V	ent System Or Contain	ment Surfaces		
Coaled Areas 🗶		•	n-Coated Areas 🗶		
Couldo Filodo	Annual Dalant AlfA	See			See
4) Coelling	Accept Reject N/A		tata arta a <b>n</b> a a na a	Accept Reject	N/A Comments
<ol> <li>Spalling</li> <li>Cracking</li> </ol>		<del></del>	inforcing Bar Corrosion	' <b>–</b> –	<u>x</u>
3) Delaminations	<del>x</del>	· · · · · · · · · · · · · · · · · · ·	st Bleeding		<u>x</u> _
•	<del>X</del>	_	ndon Surface Cracking		<u>x</u> –
4) Honeycomb 5) Water In Leakage	<del>X</del>		lorescense		<u>x</u> _
.,	<del>X</del>	<del></del>	smetic Patch Bond		<u>x</u> _
6) Chemical Leaching	<u> </u>	17) Vo			<u>x</u> _
7) Popouts	<u> </u>	X 18) Er			<u>X</u>
8) Deflection	<u> </u>	19) Pit	_		<b>X</b>
9) Staining	<u>x</u>	20) Ab			<b>x</b> —
10) Discoloration		<del></del>	gregation ,		<u>x</u> _
11) Vibration Damage	<u>x</u>	22) Oti	her 		<u> </u>
Comments: SEE SUPPLEMENTAL	REPORT				
<b>.</b>	A COLOR DOLLAR COLOR	5.1.5	100 0-(010		
Results: Accep		· · · ·	XR 256010		
Percent Of Coverage Ob	otained > 90%:	N/A	Reviewed Previous	Data: Ye	<u> </u>
Examiner Level II	Signature	Date Revie		Signature	Date
LeBlanc, Marc J.	mu	<del></del>	ese, PE	a O . Shar	11.14.0
Examiner Level II	Signature	į.	Review	Signature	Date
Duplechain, Lenus F.	to for		Portmann Co	the contract of the contract o	11133703
Other Level N/ N/A	A Signature		Review Wyatt, ANII	Signature	Date   11/27/07



Report No.:	VT-07-203				
Page:	2	of .	3		

Summary No.:	L1.11.0006							
Examiner:	LeBlanc, Marc J.	MJL	Level:	II	Reviewer:	Joe Lese, PE	Jack	Date: (+)
Examiner:	Duplechain, Lenus	F. L.()	Level:		Site Review:	Rick Portmann		Date: 1/27/07
O+	MA		l aval:	NI/A	AAIII Oordonii	Tom Wheet Att	7411	Data: -//>-/

#### Comments:

ITEM #1 (REFERENCE PAGE 1 - CONDITION 1) APPROXIMATE ELEVATION = 139'; APPROXIMATE AZIMUTH = 75°. SPALL 5 ½" X 5 ½" (SEE VT-3C REPORT VT-07-102). VT-1C DETERMINED THE SPALL WAS AROUND A FORM TIE HOLE.

ITEM #2 (REFERENCE PAGE 1 - CONDITION 1) APPROXIMATE ELEVATION = 137; APPROXIMATE AZIMUTH = 75°. SPALL 8" X 4" (SEE VT-3C REPORT VT-07-102). VT-1C DETERMINED THE SPALL WAS AROUND A FORM TIE HOLE.

ITEM #3 (REFERENCE PAGE 1 - CONDITION 7) APPROXIMATE ELEVATION = 135'; APPROXIMATE AZIMUTH = 75°. POPOUT 4" X 3" X 1" (SEE VT-3C REPORT VT-07-102). VT-1C DETERMINED THE POPOUT WAS A FORM TIE HOLE.

ITEM #4 (REFERÊNCE PAGE 1 - CONDITION 7) APPROXIANTE ELEVATION = 132'; APPROXIANTE AZIMUTH = 75°. POPOUT 4" X 3" X 1" (SEE VT-3C REPORT VT-07-102). VT-1C DETERMINED THE POPOUT WAS A FORM TIE HOLE.

ITEM #5 (REFERENCE PAGE 1 - CONDITION 1) APPROXIMATE ELEVATION = 141'; APPROXIMATE AZIMUTH = 75°. SPALL 6" X 5.5" (SEE VT-3C REPORT VT-07-102). VT-1C DETERMINED THE SPALL WAS AROUND A FORM TIE HOLE.

ITEM #6 (REFERÊNCE PAGE 1 - CONDITION 10) APPROXIMATE ELEVATION = 149', APPROXIMATE AZIMUTH = 65°:
DISCOLORATION 30' X 3' (SEE VT-3C REPORT). VT-1C DETERMINED DISCOLORATION WAS OIL / GREASE DUE TO COVER LEAKAGE / PERVIOUS SPILLAGE. NO DEGRADATION TO CONCRETE.

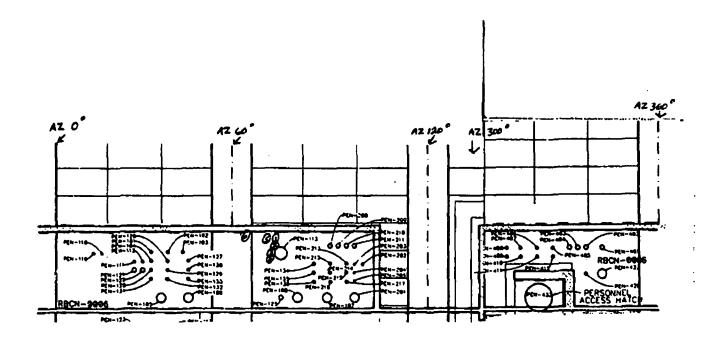


Report No.: VT-07-203

Page: \_\_3 of \_\_3

Summary No.: L1.11.0006

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-203.jpg





# Visual Examination of IWL (VT-3C)

Site/Unit: CR	3 /	3	Procedu	ire: NAP-02	Out:	age No.: _	RFO	15-IWE
Summary No.:	L1.11.0007		Procedure Re	ev.:2	Rep	oort No.: _	VT-	07-103
Workscope:	IS1_		Work Order N	lo.: 681043		Page: _	1	of <u>2</u>
Code: ASME 1992 Ed	. Thru 92 Ad.	Cat./Item	: L-A/L1.	11 Location:	EL. 11	8' 4" to E	L. 146'	
Orawing No.:	S-425-001		Description:	Concrete Surface				
System ID: Concrete	e Containmen	nt						
Component ID: RBCN-0	307	,***						
	ED ALL ACCE	SSIBLE AR	EAS					
Resolution: 1/10th of a	n inch	<b></b>		Surface Condition: As	Found			
		Cools Pins		· · · · · · · · · · · · · · · · · · ·	700110	<del></del>		
Visual Equipment/Aids:								
Inspected From:	Outside C	Containment	•	/Pils O Both O				
Light Meter Mfg.:	GE Lighting	<u>)                                    </u>	Serial No.:	0699 (TJ-3375)	Illumina	ition:	> 20	00ftc
Light Verification Times:	Cal In 😿	0915	1	1205 / 13	30 Cal	Out 📝 _	1	645
Visual Examination:	Direct/Rei	mote						
		Ver	t System Or Co	ontainment Surfaces				
Coated Areas 🗶				Non-Coated Areas .	<b>x</b>			
	Accept Reju	nct N/A C	See		Accon	l Reject	NI/A	See Comments
1) Capling	·	set was co		10) Dointomina Day Corre		, nejeci	11/2	Comments
1) Spalling	<del>x</del> –			<ol> <li>Reinforcing Bar Corre</li> <li>Rust Bleeding</li> </ol>		_	_	<del>-</del>
<ol> <li>2) Cracking</li> <li>3) Delaminations</li> </ol>	<u>x</u> –			<ol> <li>14) Tendon Surface Crac</li> </ol>	X.	_	_	
•	<u>X</u> _	- <del>-</del> ,	_		_	_		_
4) Honeycomb	<u>x</u> –			15) Efflorescense	<b>X</b>	_		_
5) Water in Leakage	X			16) Cosmelic Patch Bond				
<ol><li>6) Chemical Leaching</li></ol>	<u>x</u> _			17) Voids	X	_		
7) Popouts	<u> </u>	`		18) Erosion	<u>.X.</u>	_		_
8) Deflection	<u>x</u> _			19) Pitting	<u> </u>	_		_
9) Staining	<b>x</b> _			20) Abrasion	X		_	
10) Discoloration	<b>x</b> _		:	21) Segregation	X		_	
11) Vibration Damage	<u>x</u> _		<del></del>	22) Other	_	_	$\overline{\mathbf{x}}$	_
Comments: RECORDING CRITERIA PREVIOUS DATA.	PER APPLIC	CABLE PRO	CEDURE AND	MEMO FROM P.E. DATE	ED 9/4/01. NO	CHANGE	NOTE	D FROM
Results: Accep	ot 🕢 Rej	ject []	Eval [					
Percent Of Coverage Of			VA	Reviewed Prev	ious Data:	Ye	s	
Examiner Level		Signature	Date	Reviewer	- / s	ignature		Date
LeBlanc, Marc J.	19 1	L	11/1/2007	Joe Lese, PE	la.	.1 -	n.	22.07
Examiner Level ()		ignatute	Date	<del></del>		Signature		Date
Duplechain, Lenus F.	Z		11/1/2007	1 ( (*)	不し (と	ンナー	11	1 1
Other Level N	A	Signature	Date	ANII Review	N 111.8	gnature	<del>``</del>	Date
N/A				Tom Wyatt, ANII	( NULLO)	<i>W</i>		21/07

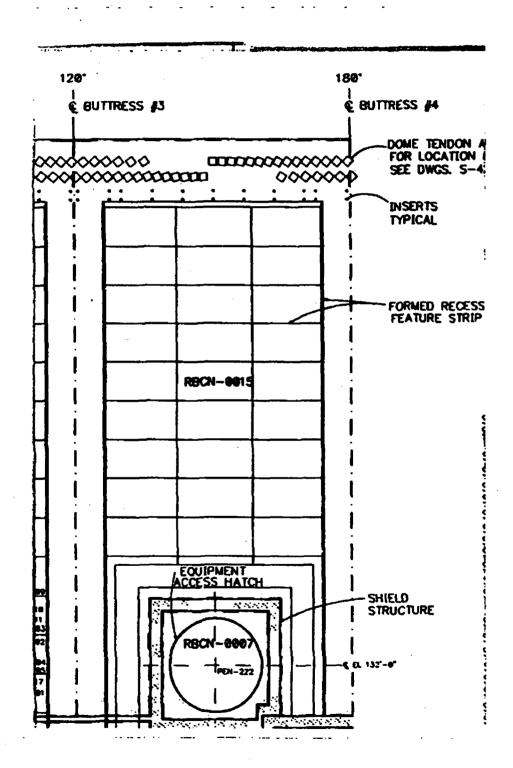


Report No.: VT-07-103

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Summary No.: <u>L1.11.0007</u>

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\RBCN-0007.jpg





# Visual Examination of IWL (VT-3C)

Site/Unit: CR	13 / 3	—— Procedi	ure: NAP-02	Outage No.: _	RFO15-IWE
Summary No.:	L1.11.0008	Procedure R	ev.: 2	Report No.:	VT-07-104
Workscope:	ISI	Work Order I	No.: 681043	Page:	1 of 3
Code: ASME 1992 Ed	d. Thru 92 Ad.	Cat/Item: L-A/L1	.11 Location:	EL. 143' to EL.	. 167'
Drawing No.:	S-425-002	Description	Concrete Surface		
System ID: Concret	e Containment	· .			
Component ID: RBCN-0	008				
Limitations: EXAMIN	IED ALL ACCESS	BLE AREAS			
Resolution: 1/10th of a	ın inch		Surface Condition: As F	ound	
Visual Equipment/Aids:	Flashlight, 6" Sc	ite. Binoculars. Tape f			
Inspected From:	Outside Cont		y/Pits O Both O		
•		Serial No.:	_	III. animatina.	0004
Light Meter Mfg.:	GE Lighting		0699 (TI-3375)	Illumination:	> 200ftc
Light Verification Times:	Cal In 🔀	0915 /	1205 / 13	30 Cal Out <b>∑</b> _	1645
Visual Examination:	Direct/Remote	<u> </u>	,		
		Vent System Or C	ontainment Surfaces		
Coated Areas		•	Non-Coated Areas 3	¢.	_
	Accent Reject	See N/A Comments	•	Accept Reject	See N/A Comments
1) Spalling			12) Reinforcing Bar Corro		
2) Cracking	X _		13) Rust Bleeding	sion <u>X</u> _	
3) Delaminations	_ X		14) Tendon Surface Crack		
4) Honeycomb	<u> </u>		15) Efflorescense		
5) Water In Leakage	<u>x</u> _		16) Cosmetic Patch Bond	<u> </u>	
6) Chemical Leaching			17) Voids	<u>x</u> _	
7) Popouts	, <u>x</u> _		18) Erosion	<u>x</u> _	<del>-</del> -
8) Deflection	X		19) Pitting		
9) Staining	_ X	<b>-</b> -	20) Abrasion	<u> </u>	
10) Discoloration			21) Segregation		
11) Vibration Damage	X _		22) Other	<u> </u>	
Comments:  RECORDING CRITERIA	A PER APPLICAB	LE PROCEDURE AND	MEMO FROM P.E. DATE	D 9/4/01 THE FOLLOW	VING CHANGES
TO PREVIOUSLY IDEN				D 00-401. 1112 - OEEO1	
Results: Acce	pt 🗍 Reject	☐ Eval [7]	NCR 25601	Λ	
Percent Of Coverage O	btained > 90%:	- N/A	Reviewed Previ		<u> </u>
Examiner Level #	Signa	//	Reviewer	Signature	Date
Sonnier, Jason B.	Man	forme 11/1/2007		3.00	11.55.07
Examiner Level    Bennett, Charles T.	Sidn	11/1/2007	Site Review Rick Portmann	Signature	1/(22 O7
	/A Sign		ANII Review	Luil In Signature	[[(22/07]
N/A			Tom Wyatt, ANII	Signature Signature	(4/27/01



Report No.:		-07-10	<u>'-104</u>		
Pane.	2	of	3		

Summary No.: L1.11.0008

JBS Examiner: Sonnier, Jason B.

Level:

Reviewer: Joe Lese, PE

Date: 11-22

Examiner: Bennett, Charles T.

Level:

Ħ

Site Review: Rick Portmann

Other: N/A

Level: NA

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

ITEM # 1 (REF PAGE 1 CONDITION # 9): STAINING (SEE VT-1C REPORT VT-07-300)

ITEM # 2 (REF PAGE 1 CONDITION # 3): DELAMINATION (SEE VT-1C REPORT VT-07-300)

ITEM # 3 (REF PAGE 1 CONDITION # 9): STAINING (SEE VT-1C REPORT VT-07-300)

ITEM # 4 (REF PAGE 1 CONDITION # 9): STAINING (SEE VT-1C REPORT VT-07-300)



Report No.:

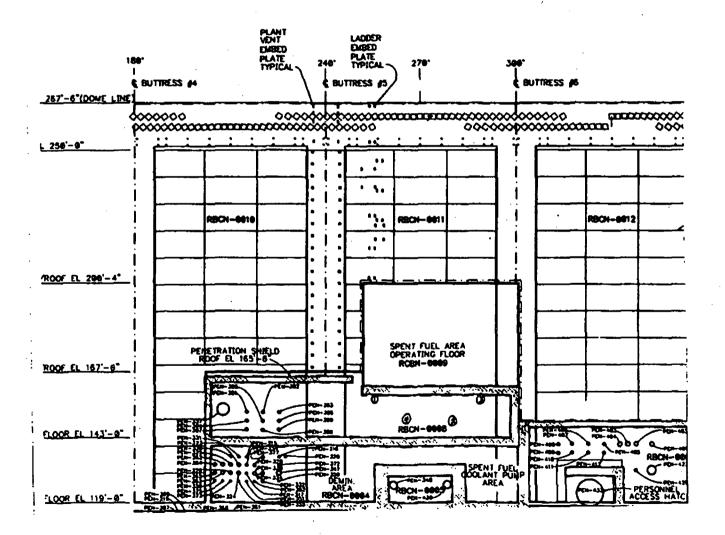
VT-07-104

Page:

3 of 3

Summary No.: L1.11.0008

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\RBCN-0008.jpg





# Visual Examination of IWL (VT-1C)

Site/Unit: CR	3 / 3	Procedu	ıre: NAP-02	Outage No.:	RF015-IWE
Summary No.:	L1.11.0008	Procedure R	ev.:2	Report No.:	VT-07-300
Workscope:	ISI	Work Order f	No.: 681043	Page:	1 of 6
Code: ASME 1992 Ed	. Thru 92 Ad. C	Cat/Item: L-A/L1.	11 Location:	EL. 143' to EL	. 167
Drawing No.:	S-425-002	Description:	Concrete Surface		
System ID: Concrete	Containment	<del></del>			
Component ID: RBCN-00	008			<del></del>	
	ED ALL ACCESSI	BLE AREAS			· · ·
Resolution: 0.044" Cha	racter Card		Surface Condition: As Foun	1	
Visual Equipment/Aids:	·····	ule, Binoculars, Tape N	<del>-</del>		
Inspected From:	Outside Conta		//Pits O Both O		
Light Meter Mfg.:	GE Lighting	Serial No.:		Illumination:	> 200ftc
Light Verification Times:			1205 / 1330	Cal Out 🕢	1645
Visual Examination:	Direct/Remote	)			
		Vent System Or C	ontainment Surfaces	_	
Coated Areas 🗶		•	Non-Coated Areas		
	A	See			See
	Accept Reject			Accept Reject	N/A Comments
1) Spalling			12) Reinforcing Bar Corrosion		<u>x</u> _
2) Cracking			13) Rust Bleeding		<u>x</u> _
3) Delaminations			14) Tendon Surface Cracking		<u>x</u> _
4) Honeycomb		<b>X</b> _	15) Efflorescense		<u>x</u>
5) Water in Leakage		<b>X</b> _	16) Cosmetic Patch Bond	<del></del>	<u>x</u> _
<ol><li>6) Chemical Leaching</li></ol>		<u>x</u> _	17) Voids		<u>x</u> _
7) Popouts	<u> </u>	<b>X</b> _	18) Erosion		<u>x</u> _
8) Deflection		<b>x</b> _	19) Pitting		<u>x</u> _
9) Staining	_	_ <b>x</b>	20) Abrasion		<u>x</u> _
10) Discoloration		<u>x</u> _ :	21) Segregation		<b>x</b> _
11) Vibration Damage			22) Other		<u>x</u> _
Comments:					
SEE SUPPLEMENT RE	PORT				
Results: Accep	t Reject	☐ Eval 🔽	NCR 256010		
Percent Of Coverage Ob		N/A	Reviewed Previous [	Data: Yes	s
Examiner Level    Sonnier, Jason B.	Signa	Date 11/1/2007	J A	Signature	Date
Examiner Level II	Sign			Signature	11.55.0)
Bennett, Charles T.		11/1/2007		J. Pagnature	11/22 07
Other Level N/	A Signa		<del> </del>	Signature	Date
NA			Tom Wyatt, ANII	CALO-	11/27/07



					•		Report No.:		-07-300	_
							Page:	2	of 6	
Summary No.:	L1.11.0008		<u> </u>			,				
Examiner:	Sonnier, Jason B.	165	Level:	!!	Reviewer:	Joe Lese, PE	lad	Date:	11.55.07	_
Examiner:	Bennett, Charles T.	07	Level:		Site Review:	Rick Portmann	JOH	Date:	1/22/	- 27
Other:	NA		Level:	N/A	ANII Review:	Tom Wyatt, ANI	TAIN	Date:	11/28/0	<u> </u>
Examiner:	Bennett, Charles T.	/_	Level:	II N/A	Site Review:	Rick Portmann	JOH	Date:	1/22/	6

#### Comments:

ITEM # 1 (REF PAGE 1 CONDITION # 9): STAINING - FLUID LEAKED FROM 167' DOWN TO 143' ELEVATION. NO DEGRADATION TO CONCRETE NOTED. AREA IS APPROXIMATELY 12' STARTING APPROXIMATELY 18' FROM BUTRESS # 5 SEE PICTURE VT-07-300-1.jpg (SEE VT-1C REPORT VT-07-104)

ITEM # 2 (REF PAGE 1 CONDITION # 3): DELAMINATION - NOTED ON WALL 3' FROM FLOOR 2 1/4" L x 3/4" W x 1/16" D. SEE PICTURE VT-07-300-2.jpg & VT-07-300-3.jpg (SEE VT-1C REPORT VT-07-104)

ITEM # 3 (REF PAGE 1 CONDITION # 9): STAINING - FLUID LEAKED FROM 167' DOWN TO 143' ELEVATION. NO DEGRADATION TO CONCRETE NOTED. AREA IS APPROXIMATELY 15' STARTING APPROXIMATELY 12' FROM BUTTRESS # 6 SEE PICTURE VT-07-300-4.jpg, VT-07-300-5.jpg & VT-07-300-6.jpg (SEE VT-1C REPORT VT-07-104)

ITEM # 4 (REF PAGE 1 CONDITION # 9) : STAINING - WHITE SUBSTANCE ON WALL THROUGH OUT AREA. SEE PICTURE VT-07-300-7.jpg (SEE VT-1C REPORT VT-07-104)



Report No.: VT-07-300

Summary No.: L1.11.0008

Examiner: Sonnler, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level: N/A Level:

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

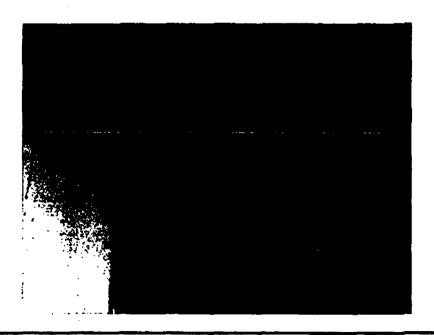
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300-1.JPG

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Report No.: VT-07-300

Summary No.: L1.11.0008

Examiner: Sonnier, Jason B.

Level: Level:

Reviewer: Jos Lese, PE

Examiner: Bennett, Charles T.

Site Review: Rick Portmann

Other: N/A

N/A Level:

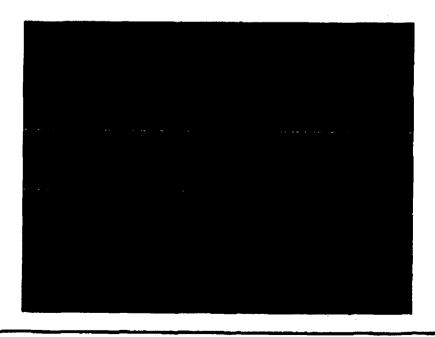
ANII Review: Tom Wyatt, ANII

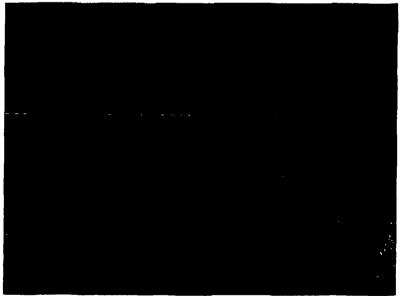
Comments: PHOTO ASSOCIATED WITH ITEM # 2 (LEFT) AND ITEM # 3 (RIGHT)

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Report No.:

VT-07-300

Page:

of 6

Summary No.: L1.11.0008

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Lev

Level: II

Level:

Site Review

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Date: 11-22-07

Date: 11/22/05

Date: 1/27/07

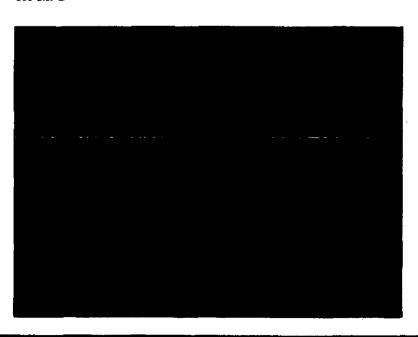
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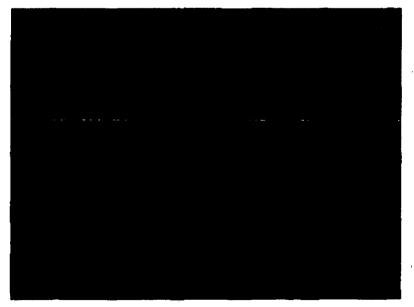
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300-5.JPG

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Report No.: VT-07-300

Page:

Summary No.: L1.11.0008

Examiner: Sonnier, Jason B.

Level:

Reviewer: Joe Lese, PE

Date: 11.22.07

Examiner: Bennett, Charles T.

Level: Level: N/A Site Review: Rick Portmann

Date: 11 12

Other: N/A

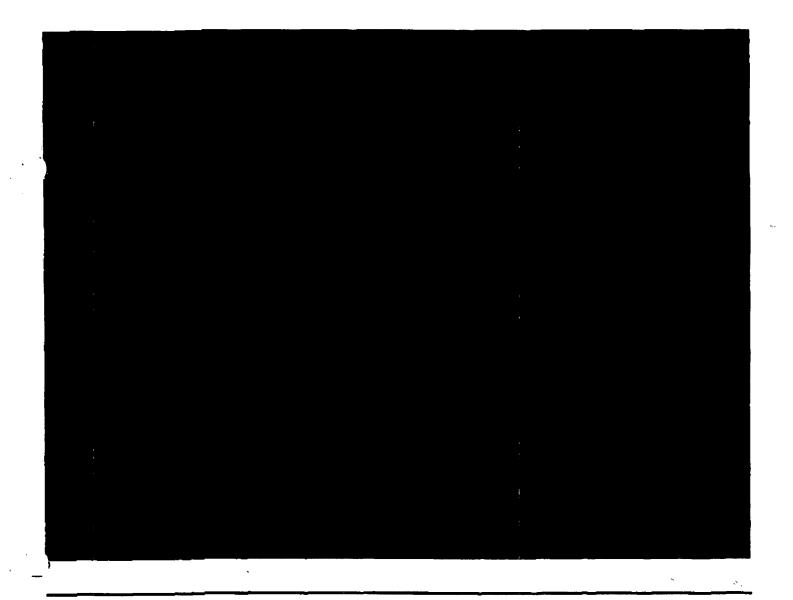
ANII Review: Tom Wyatt, ANII

Date: //

Comments: PHOTO ASSOCIATED WITH ITEM # 4

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# Visual Examination of IWL (VT-3C)

Orawing No.: S-425-002 Description: Concrete Surface  System ID: Concrete Containment  Component ID: RBCN-0009	Site/Unit: CI	R3 / 3		Procedu	re: NAP-02		Outaç	je No.: _	RFC	)15-IWE
Todo: ASME 1992 Ed. Thru 92 Ad. Call/liem: L-AA1.1.11 Location: EL 162' to EL 200' 4"  Trawing No.: S-425-002 Description: Concrete Surface  System ID: Concrete Containment  Component ID: RBCN-0009  Imitations: EXAMINED ALL ACCESSIBLE AREAS  Resolution: 1/10th of an Inch  Visual Equipment/Aids: Flashlight, 5' Scale, Binoculars, Tape Measure, Spotlight.  Inspected From: Outside Containment @ Gallery/Pits ○ Both ○ Light Meter Mg: GE Lighting Serial No.: 0699 (Th-3375) Illumination: > 200ftc  Light Meter Mg: GE Lighting Serial No.: 0699 (Th-3375) Illumination: > 200ftc  Visual Examination: Direct/Remote  Vent System Or Containment Surfaces  Coated Areas X See  Accept Reject N/A Commente  1) Spaling X 12) Reinforcing Bar Corrosion X Commente  1) Spaling X 13) Rust Bleading X 13) Rust Bleading X 13) Rust Bleading X 14) Tendon Surface Cracking X 15) Efflorescense X 150 Effloresc	Summary No.:	L1.11.0009		Procedure Re	v.:2		Repo	nt No.: _	VT-	07-105
Description:   S-425-002   Description:   Concrete Surface	Workscope:	ISI	·	Work Order N	o.: <u>681043</u>	<u> </u>		Page: _	1	of <u>3</u>
System ID: Concrete Containment Component ID: RBCN-0009    Imitations: EXAMINED ALL ACCESSIBLE AREAS	Gode: ASME 1992 E	d, Thru 92 Ad.	Cat/Item:	L-A/L1.1	1 Location;		EL. 162	to EL.	200' 4"	:
Component ID.  RBCN-0009  Imitations:  EXAMINED ALL ACCESSIBLE AREAS  Resolution: 1/10th of an Inch  Visual Equipment/Aids: Flashlight, 6" Scale, Binocutars, Tape Measure, Spotlight.  Inspected From:  Outside Containment   Quallery/Pits	Drawing No.:	S-425-002		Description:	Concrete Surface					
Initiations: EXAMINED ALL ACCESSIBLE AREAS	System ID: Concre	te Containment							-	
Initiations: EXAMINED ALL ACCESSIBLE AREAS	Component ID: RBCN-	0009								
Visual Equipment/Aids: Flashlight, 6" Scale, Binoculars, Tape Measure, Spotlight.  Inspected From: Outside Containment ② Gallery/Pits ○ Both ○ Light Meter Mig.: GE Lighting Serial No.: 0699 (Th-3375) Illumination: > 200ftc Light Verification Times: Cal In ☑ 0745 / N/A / N/A Cal Out ☑ 1030  Visual Examination: Direct/Remote  Vent System Or Containment Surfaces  Coated Areas X See Accept Reject N/A Comments Accept Reject N/A Comment  1) Spalling X 12) Reinforcing Bar Corrosion X 20) Cracking X 13) Rust Bleeding X 20) Ablaminations X 14) Tendon Surface Cracking X 20) Ablaminations X 15) Efforescense X 20) Water In Leakage X 16) Cosmetic Patch Bond X 20) Chemical Leaching X 17) Voids X 200 Abrasion X 200	Limitations: EXAMI	NED ALL ACCES	SIBLE ARE	AS						
Inspected From:    Control   Contro	Resolution: 1/10th of	an inch	<del></del>		Surface Condition:	As Found				
Light Meter Mig.: GE Lighting Serial No.: 0699 (Tt-3375) Illumination: > 200ftc Light Verification Times: Cal In  70745 / N/A / N/A Cal Out  7030  Visual Examination: Direct/Remote    Vent System Or Containment Surfaces	Visual Equipment/Aids:	Flashlight, 6" S	cale, Binoc	 µlars, Tape M	- easure, Spotlight.					
Light Verification Times: Cal In 📝 0745 / N/A / N/A Cal Out 💢 1030  Visual Examination:    Vent System Or Containment Surfaces	Inspected From:	Outside Co	ntainment @	) Gallery/	Pits () Both (	)				
Vent System Or Containment Surfaces  Coated Areas X See  Accept Reject N/A Commente  1) Spalling X	Light Meter Mig.:	GE Lighting		Serial No.:	0699 (TI-3375)		lluminati	on:	> 2	00ftc
Vent System Or Containment Surfaces  Non-Coated Areas X  See  Accept Reject N/A Comments  1) Spalling X	Light Verification Times	: Cal In 🕢	0745	/ -	WA /	N/A	Cal C	Dut ⋤	1	030
Non-Coated Areas X   See   Accept Reject N/A Comments   Accept N/A Comments   Accept N/A Comments   Accept N/A Reviewed Previous Data:   Accept N/A Reviewed Previous	Visual Examination:	Direct/Remo	ote				<del></del>	_		
See  Accept Reject N/A Comments  1) Spalling X			Vent (	System Or Co	ntainment Surfaces			_		
Accept Reject N/A Comments  Accept Reject N/A Comments  1) Spalling X	Coated Areas		_		Non-Coated Areas	5 <b>X</b>				
12) Reinforcing Bar Corrosion X 2) Cracking X		Accent Reject				,	Accent	Reject	N/A	
2) Cracking X	1) Spalling	, ,			2) Pointoming Roy C		•	ricjesi	147	Comme
3) Delaminations X	, , <u>=</u>				_	orrosion		_	_	
4) Honeycomb X 15) Efflorescense X 5) Water In Leakage X 16) Cosmetic Patch Bond X 6) Chemical Leaching X 17) Voids X 7) Popouts X 18) Erosion X 8) Deflection X 19) Pitting X 9) Staining X 20) Abrasion X 10) Discoloration X 21) Segregation X 11) Vibration Damage X 22) Other X 11) Vibration Damage X 22) Other X 11) Vibration Damage X 22) Other X 11) Percent Of Coverage Obtained > 90%: N/A Reviewer Signature Date Komara, Bernard P. B. Signature Date Site Review Signature Date Cother Level   Signature Date Site Review Signature Date Cother Level   Signature Date Site Review Signature Date Cother Level   Signature Date Cother Care Signature Date Care Care Care Care Care Care Care Car	•			<del>-</del>	•			_	_	_
16) Cosmetic Patch Bond   X	•					racking		_	_	_
6) Chemical Leaching X 17) Voids X 18) Erosion X 18) Erosion X 18) Deflection X 19) Pitting X 19) Pitting X 19) Staining X 20) Abrasion X 20) Abrasion X 20) Abrasion X 21) Segregation X 21) Vibration Damage X 22) Other X 23) Previous Previo			-					_	_	_
7) Popouts X 18) Erosion X 9) Deflection X 19) Pitting X 10) Discoloration X 20) Abrasion X 11) Vibration Damage X 21) Segregation X 11) Vibration Damage X 22) Other X  Comments:  RECORDING CRITERIA PER APPLICABLE PROCEDURE AND MEMO FROM P.E. DATED 9/4/01. THE FOLLOWING CHANGES TO PREVIOUSLY IDENTIFIED CONDITIONS NOTED (SEE SUPPLEMENTAL SHEET).  Results: Accept Reject   Eval			_		•	ond		_	_	_
8) Deflection X 19) Pitting X 9) Staining X 20) Abrasion X 10) Discoloration X 21) Segregation X 11) Vibration Damage X 22) Other X  Comments:  RECORDING CRITERIA PER APPLICABLE PROCEDURE AND MEMO FROM P.E. DATED 9/4/01. THE FOLLOWING CHANGES TO PREVIOUSLY IDENTIFIED CONDITIONS NOTED (SEE SUPPLEMENTAL SHEET).  Results: Accept Reject   Eval	6) Chemical Leachin	9 <b>X</b>	_	_ ¹	7) Voids		X	_	_	
9) Staining X	7) Popouts	<u>x</u> _		1	8) Erosion		X.	_		
10) Discoloration X	8) Deflection	<b>X</b> _		1	9) Pitting		X	_		
Comments:  RECORDING CRITERIA PER APPLICABLE PROCEDURE AND MEMO FROM P.E. DATED 9/4/01. THE FOLLOWING CHANGES TO PREVIOUSLY IDENTIFIED CONDITIONS NOTED (SEE SUPPLEMENTAL SHEET).  Results: Accept Reject Eval Deval Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. B.P. Ferrard Date Site Review Signature Date ANII Review Signature Date Signature Date ANII Review Signature Date Signature Date Signature Date ANII Review Signature Date Signature Date Signature Date Signature Date Signature Date Signature Date ANII Review Signature Date Signature Date ANII Review Signature Date Signature Date Signature Date Signature Date Signature Date Signature Date ANII Review Signature Date Signature Date Signature Date ANII Review Signature Date Signatur	9) Staining			2	0) Abrasion		X	_	_	_
Comments:  RECORDING CRITERIA PER APPLICABLE PROCEDURE AND MEMO FROM P.E. DATED 9/4/01. THE FOLLOWING CHANGES TO PREVIOUSLY IDENTIFIED CONDITIONS NOTED (SEE SUPPLEMENTAL SHEET).  Results: Accept Reject Eval Deval Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. B.P. Ferrard Date Site Review Signature Date ANII Review Signature Date Signature Date ANII Review Signature Date Signature Date Signature Date ANII Review Signature Date Signature Date Signature Date Signature Date Signature Date Signature Date ANII Review Signature Date Signature Date ANII Review Signature Date Signature Date Signature Date Signature Date Signature Date Signature Date ANII Review Signature Date Signature Date Signature Date ANII Review Signature Date Signatur	10) Discoloration			2	1) Segregation			_		_
RECORDING CRITERIA PER APPLICABLE PROCEDURE AND MEMO FROM P.E. DATED 9/4/01. THE FOLLOWING CHANGES TO PREVIOUSLY IDENTIFIED CONDITIONS NOTED (SEE SUPPLEMENTAL SHEET).  Results: Accept Reject Reject Reviewer Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. B. L. 22.00  Examiner Level II Signature Date Site Review Signature Date Sonnier, Jason B. 11/2/2007 Rick Portmann II 22 00  Other Level III Signature Date ANII Review Manual Signature Date ANII Review Manual Signature Date Signature	11) Vibration Damage		<del>_</del>		- ·		_	$\overline{\mathbf{x}}$	_	_
TO PREVIOUSLY IDENTIFIED CONDITIONS NOTED (SEE SUPPLEMENTAL SHEET).  Results: Accept Reject   Eval   UCR 256010  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level   Signature Date   Signature   Si	Comments:									
Percent Of Coverage Obtained > 90%:  N/A  Reviewed Previous Data:  Examiner Level    Signature Komara, Bernard P.  Examiner Level    Signature  Examiner Level    Signature  Examiner Level    Signature  Date Site Review  Signature  Date Site Review  Signature  Date Site Review  Other Level    Signature  Date ANII Review  ANII Review  Date Signature  Date Signature  Date ANII Review  Date Signature  Date ANII Review							1. THE	FOLLOV	VING C	HANGES
Percent Of Coverage Obtained > 90%:  N/A  Reviewed Previous Data:  Yes  Examiner Level    Signature  Komara, Bernard P.  Examiner Level    Signature  Date Site Review  Signature  Date Site Review  Signature  Date Site Review  Signature  Date Site Review  ANII Review  ANII Review  Date Signature  Date Signature  Date Signature  Date ANII Review  ANII Review  Date Signature  Date ANII Review				•						
Komara, Bernard P. BP. Signature Date Site Review Signature Date Sonnier, Jason B. Signature Date ANII Review Date Signature Date Signature Date ANII Review Date Signature Date ANII Review Signature Date ANII Review Date Signature D	Percent Of Coverage C	)btained > 90%:	N/A	<u> </u>			a:	Ye	<b>S</b>	
Komara, Bernard P. BP. Signature Date Site Review Signature Date Sonnier, Jason B. Signature Date ANII Review Date Signature Date Signature Date ANII Review Date Signature Date ANII Review Signature Date ANII Review Date Signature D	Evaminas Laudin	Sio Sio	nature	Data	Paviawar		1 8	node:		
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Sonnier, Jason B. 11/2/2007 Rick Portmann 11/2/2007 Control Date ANII Review Date ANII Revi						- Marie	P. 600	mati da	<u> </u>	
Other Level W Signature Date ANII Review Will Signature Date	1	1 /km				47	L (Ÿ	grica (UP O		1 1
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Report No.:	VT-07-105				
Page:	2	of	3		

Summary No.: L1.11.0009

Examiner: Komara, Bernard P. BPIL

Level: (11 Reviewer: Joe Lese, PE

Examiner: Sonnier, Jason B.

11 Level:

[]

Site Review: Rick Portmann

Other: Kissack, Brian S.

Level:

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

Item #1 (Reference Page 1 - Condition 22): Abandoned anchor locations. (See VT-1C Report VT-07-302) Item #2 (Reference Page 1 - Condition 22): Degraded coatings. (See VT-1C Report VT-07-302)

#### Inaccessible Areas:

•Approximate Azimuth 260 - 280 Degrees: Concrete surface behind Spent Fuel Pool Liner.

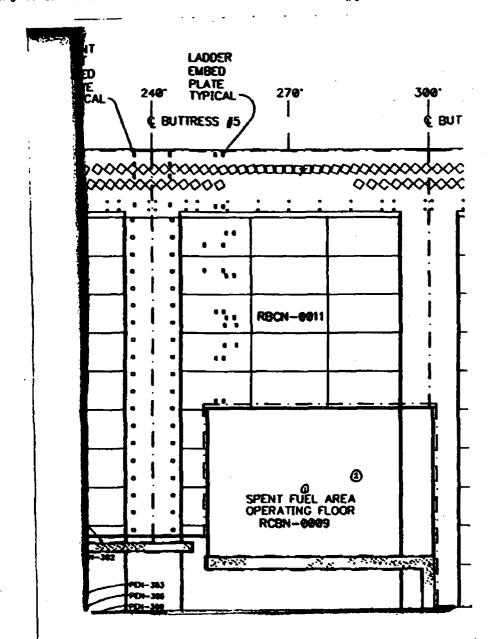


Report No.: VT-07-105

Page: 3 of 3

Summary No.: L1.11.0009

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\RBCN-0009.jpg





# Visual Examination of IWL (VT-1C)

Drawing No.: S-425-002 Description: Concrete Surface	Site/Unit:CR:	3 / 3	<sup>′</sup> P	rocedure:	NAP-02	Outage No.:	RF015-IWE
Code: ASME 1992 Ed. Thru 92 Ad. Cat //lam: L-AL1.11 Location: EL. 162' to EL. 200' 4"  Drawing No.: S-425-002 Description: Concrete Surface  System ID: Concrete Containment  Component ID: RBCN-0009  Limitations: EXAMINED ALL ACCESSIBLE AREAS  Flesolution: 1/10th of an Inch  Visual Equipment/Adds: Flashlight, 5' Scale, Binocutars, Tape Measure, Spotlight.  Inspected From: Outside Containment @ Gallery/Pris ○ Both ○  Light Merification Times: Cat In ☑ 0745 / N/A / N/A Cat Out ☑ 1030  Visual Examination: Direct/Remote   Vent System Or Containment Surfaces  Non-Coated Areas X  See  Accept Reject N/A Comments  1) Spalling	Summary No.:	L1.11.0009	Proced	dure Rev.:	2	Report No.:	VT-07-302
Drawing No.: S-425-002   Description: Concrete Surface	Workscope:	ISI	Work (	Order No.:	681043	Page:	1 of 2
System ID: Concrete Containment  Component ID: RBCN-0009  Limitations: EXAMINED ALL ACCESSIBLE AREAS  Resolution: 1/10th of an Inch  Visual Equipment/Aids: Flashlight, 6* Scale, Binocutars, Tape Measurs, Spottight.  Inspected From: Outside Containment @ Gallery/Pits @ Both @  Light Meter Mig: GE Lighting Serial No: 0699 (Th:3375) Illumination: > 200ftc  Light Verification Times: Cal In @ 0745 / N/A / N/A Cal Out @ 1030  Visual Examination: Direct/Remote  Vent System Or Containment Surfaces  Coated Areas X See  Accept Reject N/A Comments  1) Spalling N/A Comm	Code: ASME 1992 Ed	. Thru 92 Ad.	Cat./Item: L	- <b>A/L1.11</b> Lo	ocation:	EL_ 162' to EL.	200' 4"
Component ID: RBCN-0009  Limitations: EXAMINED ALL ACCESSIBLE AREAS  Resolution: 1/10th of an Inch  Visual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spottight.  Inspected From: Outside Containment @ Gallery/Pits   Both   Light Meter Mig.: GE Lighting Serial No.: 0699 (Th-3375) Illumination: > 200ftc  Light Verification Times: Cal In  0745 / N/A / N/A Cal Out  1030  Visual Examination: Direct/Remote  Vent System Or Containment Surfaces  Coated Areas X  Accept Reject N/A Comments  1) Spalling	Drawing No.:	S-425-002	Desc	ription: Concrete S	urface		
Content   Comments	System ID: Concrete	e Containment					
Examiner Level	Component ID: RBCN-00	009					
Resolution:   1/10th of an Inch			IBLE AREAS		<del></del>		
Visual Equipment/Aids: Flashlight, 6* Scale, Binocutars, Tepe Measure, Spotlight.  Inspected From: Outside Containment ⊕ Gallery/Pits ○ Both ○ Light Meter Mig.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: > 200ftc  Light Verification Times: Call in ☑ 0745 / N/A / N/A Cal Out ☑ 1030  Visual Examination: Direct/Remote    Vent System Or Containment Surfaces							
Inspected From:	Resolution: 1/10th of a	n inch		Surface Co -	endition: As Foun	d	
Light Meter Mfg.:   GE Lighting   Serial No.:   0699 (TI-3375)   Illumination:   > 200ftc	Visual Equipment/Aids:	Flashlight, 6° Sc	ale, Binoculars,	Tape Measure, Spo	otlight.		
Visual Examination:   Direct/Remote	Inspected From:	Outside Cont	ainment	Gallery/Pits (	Both ()		
Vent System Or Containment Surfaces  Coated Areas ★  See  Accept Reject N/A Comments  1) Spalling	Light Meter Mfg.:	GE Lighting	Serial N	No.: 0699 (TI-	3375)	Illumination:	> 200ftc
Vent System Or Containment Surfaces  Coated Areas X  See  Accept Reject N/A Comments  1) Spalling	Light Verification Times:	Cal In 🗸	0745 /	NA	/ _ N/A_	Cal Out 🗹	1030
Non-Coated Areas   X   See	Visual Examination:	Direct/Remot	9			<del></del>	
Non-Coated Areas   X   See			Vent System	n Or Containment	Surfaces		
Accept Reject N/A Comments  1) Spalling	Coated Areas Y		•				
1) Spalling X 12) Reinforcing Bar Corrosion X 2  2) Cracking X 13) Rust Bleeding X 3  3) Delaminations X 14) Tendon Surface Cracking X 4  4) Honeycomb X 15) Efflorescense X 5  5) Water In Leakage X 16) Cosmetic Patch Bond X 6  6) Chemical Leaching X 17) Voids X 7  7) Popouts X 18) Erosion X 8  8) Deflection X 19) Pitting X 20) Abrasion X 10) Discoloration X 21) Segregation X 11) Vibration Damage X 22) Other X 22) Other X 22) Other X 22  Comments:  SEE SUPPLEMENTAL REPORT  Results: Accept Reject Eval Date Reviewer Signature Date Komara, Bernard P. P. P. N/A Reviewer Signature Date Site Review Signature Date Sonnier, Jason B. North Signature Date Rick Portmann 11/2/2007 Date Signature Date	Course Money						- <del></del> -
2) Cracking X 13) Rust Bleeding X  3) Delaminations X 14) Tendon Surface Cracking X  4) Honeycomb X 15) Efflorescense X  5) Water In Leakage X 16) Cosmetic Patch Bond X  6) Chemical Leaching X 17) Voids X  7) Popouts X 18) Erosion X  8) Deflection X 19) Pitting X  9) Staining X 20) Abrasion X  10) Discotoration X 21) Segregation X  11) Vibration Damage X 22) Other X  Comments:  SEE SUPPLEMENTAL REPORT  Results: Accept P Reject Eval Date Reviewer Signature Date Komara, Bernard P. B. Signature Date Signature Date Signature Signature Poate Signature Signature Date Sonnier, Jason B. Signature Date ANII Review Will Signature Date Signature Signature Date Signature Date Signature Signature Date Signature Signature Signature Date Signature Sig	_	Accept Reject	N/A Comments			Accept Reject	N/A Comments
3) Delaminations	• • •	<b>–</b>			-		<u>x</u> _
4) Honeycomb X 15) Efficrescense X 5) Water In Leakage X 16) Cosmetic Patch Bond X 6) Chemical Leaching X 17) Voids X 7) Popouts X 18) Erosion X 8) Deflection X 19) Pitting X 9) Staining X 20) Abrasion X 10) Discoloration X 21) Segregation X 11) Vibration Damage X 22) Other X  Comments:  SEE SUPPLEMENTAL REPORT  Results: Accept P Reject Eval Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level II Signature Date Reviewer Joe Lese, PE IN 22.07  Examiner Level II Signature Date Site Review Signature Pate Signature Date Sonnier, Jason B. Johns 11/2/2007 Rick Portmann Litze of Totale Pate Signature Date	, -				=		X
5) Water In Leakage X 16) Cosmetic Patch Bond X 6) Chemical Leaching X 17) Voids X 7) Popouts X 18) Erosion X 8) Deflection X 19) Pitting X 9) Staining X 20) Abrasion X 10) Discoloration X 21) Segregation X 11) Vibration Damage X 22) Other X  Comments:  SEE SUPPLEMENTAL REPORT  Results: Accept P Reject Eval Date Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. Signature Date Site Review Signature Date Sonnier, Jason B.  Other Level II Signature Date ANII Review Signature Date Signatur	,			•	_		
6) Chemical Leaching X 17) Voids X 7) Popouts X 18) Erosion X 8) Deflection X 19) Pitting X 9) Staining X 20) Abrasion X 10) Discoloration X 21) Segregation X 21) Segregation X 21) Vibration Damage X 22) Other X 22) Other X 22) Other X 22) Other X 25,010  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Komara, Bernard P. B. Signature Date Komara, Bernard P. B. Signature Date Site Review Signature Signature Sonnier, Jason B. Signature Date ANII Review Signature Date ANII Review Miles Signature Date Signature Signature Date Signatur	· · · · · · · · · · · · · · · · · · ·			·			
7) Popouts X 18) Erosion X 8) Deflection X 19) Pitting X 9) Staining X 20) Abrasion X 10) Discoloration X 21) Segregation X 11) Vibration Damage X 22) Other X  Comments:  SEE SUPPLEMENTAL REPORT  Results: Accept P Reject Eval Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. P P P P P P P P P P P P P P P P P P	,			,	c Patch Bond		
8) Deflection X 19) Pitting X 9) Staining X 20) Abrasion X 10) Discoloration X 21) Segregation X 11) Vibration Damage X 22) Other X  Comments: SEE SUPPLEMENTAL REPORT  Results: Accept P Reject Eval DUR 25/01/0  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. Signature Date Site Review Signature Date Sonnier, Jason B. Signature Date ANII Review Will Signature Date				-			<b>X</b>
9) Staining X 20) Abrasion X 10) Discoloration X 21) Segregation X 11) Vibration Damage X 22) Other X  Comments: SEE SUPPLEMENTAL REPORT  Results: Accept Reject Eval DEVA 256010  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Site Review Sonnier, Jason B.  Examiner Level II Signature Date Site Review Signature Date Site Review Signature Date Signature Date Site Review Signature Date			<u>x</u> _	18) Erosion			<b>X</b> _
10) Discoloration X 21) Segregation X  11) Vibration Damage X 22) Other X  Comments:  SEE SUPPLEMENTAL REPORT  Results: Accept Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. Signature Date Site Review Signature Sonnier, Jason B. Signature Date Site Review Signature Date Signature Date Site Review Signature Date Date Signature Date Signature Date Date Signature Date Date Signature Date Date Signature Date	•		<u>x</u> _	19) Pitting	•		<u>x</u> _
Comments: SEE SUPPLEMENTAL REPORT  Results: Accept Reject Eval DER 256010  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. B. Signature Date Site Review Sonnier, Jason B. Signature Date Site Review Signature Date ANII Review Signature Date		<b>–</b> –	<u>x</u> _	20) Abrasion	l		<b>X</b>
Comments:  SEE SUPPLEMENTAL REPORT  Results: Accept P Reject Eval DUR 25600  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level    Signature Date Reviewer Signature Date Komara, Bernard P. B.P. Signature Date Site Review Signature Date Sonnier, Jason B. Signature Date ANII Review Signature Date Other Level    Signature Date ANII Review Signature Date Signature Date ANII Review Signature Date Date Mill Review Signature Date Date Date Date Date Date Date Dat	•		<b>X</b> _	21) Segregat	tion		<u>x</u> _
Results: Accept Reject Eval DCR 256010  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. B. Long 11/2/2007 Joe Lese, PE  Examiner Level II Signature Date Site Review Signature Date Sonnier, Jason B. 11/2/2007 Rick Portmann  Other Level II Signature Date ANII Review Signature Date	11) Vibration Damage		<b>X</b>	22) Other			_ X
Results: Accept P Reject Eval DRR 256010  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. 11/2/2007 Joe Lese, PE  Examiner Level II Signature Date Site Review Signature Date Sonnier, Jason B. 11/2/2007 Rick Portmann il 2007  Other Level II Signature Date ANII Review Signature Date							
Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes    Examiner Level    Signature Date Reviewer Signature Date	SEE SUPPLEMENTAL	REPORT					
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Examiner Level III Signature Date Reviewer Signature Date Komara, Bernard P. Signature Date 11/2/2007 Joe Lese, PE 11/2/2007 Examiner Level II Signature Date Site Review Signature Date Sonnier, Jason B. Signature Date ANII Review Signature Date Date Date ANII Review With Anii Date Date Date Date Date Date Mile Signature Date Date Date Date Date Date Date Dat	•	_ ·				Dota: Yo	
Komara, Bernard P. B. L. 22.07  Examiner Level II Signature Date Site Review Signature Date Sonnier, Jason B. 11/2/2007 Rick Portmann  Other Level II Signature Date ANII Review Date	Percent Of Coverage Of	)(8)(16)(1 > 30%;		- ne	VIEWED Previous (	Data: Ye	<u> </u>
Examiner Level II Signature Date Site Review Signature Date Sonnier, Jason B. 11/2/2007 Rick Portmann is 22 of Other Level II Signature Date ANII Review Signature Date	Examiner Level [[]					Signature	Date
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Other Level II Signature Date ANII Review Signature Date			•			Signature	
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	Report No.:
Page: 2 of 2	Page:

Examiner: Komara, Bernard P. APIL Level: III Reviewer: Joe Lese, PE Date: 1/22/07

Examiner: Sonnier, Jason B. JBS Level: II Site Review: Rick Portmann Date: 1/27/07

Other: Kissack, Brian S. ACC Level: II ANII Review: Tom Wyatt, ANII Date: 1/27/07

#### Comments:

Item #1 (Reference Page 1 – Condition 22): Approximate Elevation 177'. Approximate Azimuth 270 Degrees. Abandoned anchor locations. (See VT-3C Report VT-07-105). VT-1C determined two (2) locations where anchor bolt holes were not grouted. No additional degradation of the concrete surface was identified.

tem #2 (Reference Page 1 – Condition 22): Approximate Elevation 185'. Approximate Azimuth 285 Degrees. Degraded coatings. (See VT-3C Report VT-07-105), VT-1C determined Delamination of the paint from the concrete surface. There was no underlying degradation of the concrete surface.



# Visual Examination of IWL (VT-3C)

Site/Unit:CR	3 / 3	Procedure: _	NAP-02	Outage No.:	RFO15-IWE
Summary No.:	L1.11.0010	Procedure Rev.:	2	Report No.:	VT-07-106
Workscope:	<u> </u>	Work Order No.:	681043	Page:	1 of 4
Code: ASME 1992 Ed	. Thru 92 Ad. Cat/lte	em: L-A/L1.11	Location:	EL. 119' to EL.:	267" 6"
Drawing No.:	S-425-002	Description: Con	crete Surface		_
System ID: Concrete	Containment				
Component ID: RBCN-00	)10				
Limitations: EXAMINI	ED ALL ACCESSIBLE	REAS			
Resolution: 1/10th of a	n inch	Surf	face Condition: As Foun	đ	
Visual Equipment/Aids:	Flashlight, 6" Scale, Bl	noculars, Tape Measu	re, Spotlight.		
Inspected From:	Outside Containme	nt   Gallery/Pits	O Both O		
Light Meter Mfg.:	GE Lighting		i99 (TI-3375)	Illumination:	> 200ftc
Light Verification Times:		/ 1200	/ 1300	 Cal Out ₩	1645
Visual Examination:	Direct/Remote				
		ent System Or Contain	ment Surfaces	· · · · · · · · · · · · · · · · · · ·	
Contact Aroun	•	•	on-Coated Areas		
Coated Areas		See	on-oblice Areas		See
	Accept Reject N/A			Accept Reject	N/A Comments
1) Spalling	_ <u>X</u> _		einforcing Bar Corrosion		X
2) Cracking	_ <u>X</u> _	<del></del>	ust Bleeding	<u>x</u> _	<del>-</del> -
3) Delaminations	_ X _	<del></del>	endon Surface Cracking	X	
4) Honeycomb	<u>x</u>	<del></del>	florescense	<u>x</u>	
5) Water In Leakage	X	16) C	osmetic Patch Bond		
6) Chemical Leaching	<u>x</u>	17) V	ebio		X
7) Popouts	<u>x</u>	18) E	rosion	X	
8) Deflection	<u>x</u>	19) Pi	itting	<u>x</u> _	
9) Staining	$\frac{1}{x}$	20) Al	brasion	<u> </u>	
10) Discoloration	<u>x</u>		egregation		
11) Vibration Damage	<u>x</u>			<u> </u>	
Comments:					
RECORDING CRITERIA				4/01. THE FOLLOY	VING CHANGES
TO PREVIOUSLY IDEN		·			
Results: Accep			NCR 256010		
Percent Of Coverage Ob	tained > 90%:	N/A	Reviewed Previous	Data: Ye	<u> </u>
Examiner Level III	Signature	Date Rev	n	Signature	Date
Komara, Bernard P.	BS. Komana		Lese, PE	1.0	11.52.0)
Examiner Level ()	Signature	Date Site		signature	Pate
Sonnier, Jason B.	Mon Source	·	Portmann		11/22/07
Other Level () LeBlanc, Marc J.	Signature	4	Review Wyatt, ANII	MINITED TO THE REPORT OF THE PERSON OF THE P	Date
Parallo, Maio U.	-are	197002007   1011	· ·· yacı, sum	I WINO	11/27/07



Report No.: VT-07-106 Page: of

Summary No.: £1.11.0010

BPIL Examiner: Komara, Bernard P. Level:

Reviewer: Joe Lese, PE

T65 Examiner: Sonnier, Jason B.

11 Level:

Ш

Site Review: Rick Portmann

Date

Other: LeBlanc, Marc J. MJC 11

ANII Review: Tom Wyatt, ANII

#### Comments:

Item #1 (Reference Page 1 - Condition 16): 2-1/2"L X 3" W X 1" Deep: Displacement of cosmetic grout patch over previously existing popout. (See VT-1C Report VT-07-288).

Item #2 (Reference Page 1 - Condition 22): Wood embedment in concrete. (See VT-1C Report VT-07-288).

Level:

Item #3 (Reference Page 1 - Condition 22): Nail embedment in concrete. (See VT-1C Report VT-07-288).

ttem #4 (Reference Page 1 - Condition 02, 16): 32'L X 3/4" W (maximum) X <1/2" Deep (maximum): Cracking, deterioration of cosmetic grout patch. (See VT-1C Report VT-07-288).

Item #5 (Reference Page 1 - Condition 02, 16): ~8'L X 1" W (maximum) X 1/2" Deep (maximum): Cracking, deterioration of cosmetic grout patch. (See VT-1C Report VT-07-288).

Item #6 (Reference Page 1 - Condition 02, 16): 18"L X 3/16" W X <1/2" Deep and 12"L X 3/16" W X <1/2" Deep: Cracking, deterioration of two (2) cosmetic grout patch. (See VT-1C Report VT-07-288).

ttem #7 (Reference Page 1 - Condition 22): Other (Exposed tie wire in concrete). (See VT-1C Report VT-07-288).

Item #8 (Reference Page 1 - Condition 02, 16): 16"L X 3/16" W X <1/2" Deep: Cracking, deterioration of two (2) cosmetic grout patches. (See VT-1C Report VT-07-288).

Item #9 (Reference Page 1 - Condition 22): Nail embedment in concrete. (See VT-1C Report VT-07-288).

ttem #10 (Reference Page 1 - Condition 03): 30"L X 8" W (maximum) X 3/16" Deep (maximum): Delamination. (See VT-1C Report VT-07-288).

Item #11 (Reference Page 1 - Condition 02, 16): 12"L X 3/16" W X <1/2" Deep: Cracking, deterioration of two (2) cosmetic grout patches. (See VT-1C Report VT-07-288).



Report No .: VT-07-106 ot Page:

Summary No.: L1.11.0010

BPIL Examiner: Komara, Bernard P.

Level: Ш

Joe Lese, PE Reviewer:

7B5 Examiner: Sonnier, Jason B.

II Level:

Site Review: Rick Portmann

Date:

MJZ Other: LeBlanc, Marc J.

H Level:

ANII Review: Tom Wyatt, ANII

Date:

Comments:

ttem #12 (Reference Page 1 - Condition 22): Exposed tie wires in concrete. (See VT-1C Report VT-07-288).

Item #13 (Reference Page 1 - Condition 01): 12"L X 18" W (maximum) X 1" Deep (maximum): Spall. (See VT-1C Report VT-07-288).

Item #14 (Reference Page 1 - Condition 02, 16): 24"L X 1/2" W (maximum) X <1/2" Deep (maximum); and 14"L X 1/2" W (maximum) X <1/2" Deep (maximum); and 18"L X 1/2" W (maximum) X <1/2" Deep (maximum): Cracking, deterioration of three (3) cosmetic grout patches. (See VT-1C Report VT-07-288).

Item #15 (Reference Page 1 - Condition 02, 16): 12"L X 3/4" W X 1/2" Deep: Cracking, deterioration of cosmetic grout patches. (See VT-1C Report VT-07-288).

Item #16 (Reference Page 1 - Condition 22): Wood embedment in concrete. (See VT-1C Report VT-07-288).

Item #17 (Reference Page 1 - Condition 22): Wood embedment in concrete. (See VT-1C Report VT-07-288).

Item #18 (Reference Page 1 - Condition 22): Nail and metal embedment in concrete. (See VT-1C Report VT-07-288).

Item #19 (Reference Page 1 - Condition 22): Nail embedment in concrete. (See VT-1C Report VT-07-288).

Item #20 (Reference Page 1 - Condition 02, 16): 12"L X 5/8" W (maximum) X <1/2" Deep (maximum); and 18"L X 1" W (maximum) X 3/4" Deep (maximum); and 8'L X 1/2" W (maximum) X 1/2" Deep (maximum): Cracking, deterioration of cosmetic grout patches. (three (3) areas). (See VT-1C Report VT-07-288).

Item #21 (Reference Page 1 - Condition 02): 12"L X 1/16" W X <1/32" Deep: Crack. (See VT-1C Report VT-07-288).

Item #22 (Reference Page 1 - Condition 22): Exposed tie wires in concrete. (See VT-1C Report VT-07-288).

Item #23 (Reference Page 1 - Condition 01): 10"L X 2" W (maximum) X 1/2" Deep (maximum): Spall. (See VT-1C Report VT-07-288).

Item #24 (Reference Page 1 - Condition 22): Exposed tie wires in concrete. (See VT-1C Report VT-07-288).

Item #25 (Reference Page 1 - Condition 09): Staining. (See VT-1C Report VT-07-288).

Item #26 (Reference Page 1 - Condition 22): Embedded boxes in concrete. (See VT-1C Report VT-07-288).

Inaccessible Areas:

Buttress #5: Area behind vent duct outside parameters for VT-3C/VT-1C

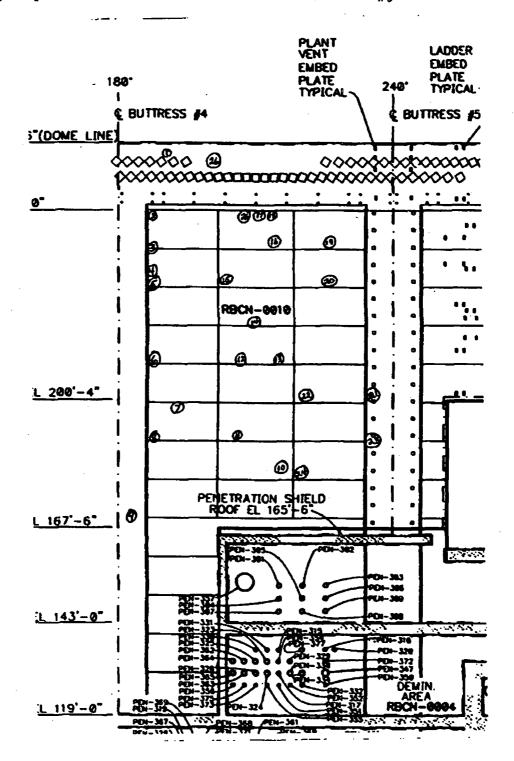


Report No.: VT-07-106

Page: 4 of 4

Summary No.: L1:11.0010

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\RBCN-0010.jpg





# Visual Examination of IWL (VT-1C)

Site/Unit: CR	3 / 3	Proc	codure: NAP-0	)2	Outage No	o.:RFO15-IW	E
Summary No.:	L1.11.0010	Procedure	e Rev.: 2		Report No	o.: <u>VT-07-28</u>	8
Workscope:	ISł	Work Ord	ler No.: 68104	13	Pag	je: <u>1</u> of _	6
Code: ASME 1992 Ed	, Thru 92 Ad.	Cat./item: L-A	/L1.11 Location:		EL. 119' to E	L. 267' 6"	
Drawing No.:	S-425-002	Descript	ion: Concrete Surface				
System ID: Concrete	Containment		•	-			
Component ID: RBCN-00	10						
	ED ALL ACCESS	BIBLE AREAS					
Resolution: 0.044" Cha	racter Card		Surface Condition:	As Fouri	1		
Visual Equipment/Aids:		ale, Binoculars, Tar					
Inspected From:	Outside Con		llery/Pits () Both	0		<del></del>	
Light Meter Mig.:	GE Lighting	Serial No.	:0699 (TI-3375)		Illumination:	> 200ftc	
Light Verification Times:	Cal In 📝	0900 /	1200 /	1300	Cal Out &	1645	
Visual Examination:	Direct/Remo	e					
	<del></del>	Vent System O	r Containment Surface	·s			<del></del>
Coated Areas	•	_	Non-Coated Area	as 🗶			
	Accept Reject	See N/A Comments			Accept Reje	Se ct N/A Comm	-
1) Coolling			12) Dainfaraign Bos (	3ai	Accept Neje		
1) Spalling		<del>X</del>	12) Reinforcing Bar (	Jorrosion	<u>-</u>	X	<b>Ĺ</b>
2) Cracking		_ <del>x</del>	13) Rust Bleeding	Ozzati za		<u> </u>	-
3) Delaminations		_ X	14) Tendon Surface	Cracking		_ <u>X</u> _	-
4) Honeycomb		<u>x</u> _	15) Efflorescense		<del>-</del> -	_ X	_
5) Water In Leakage		<u>x</u> _	16) Cosmetic Patch I	Bond		2	
6) Chemical Leaching	<u> </u>	<b>X</b> _	17) Voids				<u>C</u>
7) Popouts		<u>x</u> _	18) Erosion			_ X _	_
8) Deflection	<u> </u>	<b>x</b> _	19) Pitting			_ X _	_
9) Staining		_ X	20) Abrasion			_ X _	_
10) Discoloration		<u>x</u> _ ·	21) Segregation		<del></del>	_ <b>X</b> _	_
11) Vibration Damage		<u>x</u> _	22) Other				<u>`</u>
Comments: SEE SUPPLEMENTAL I	REPORT						
Results: Accep	t 🗌 Reject	□ Eval	NCR 2560	<u> </u>			
Percent Of Coverage Ob	tained > 90%:	NA	Reviewed 8	Previous D	ala:	Yes	
Examiner Level ([]	Sign	ature D	ate Reviewer	A	Signatu	ire	Date
	G.P. Koma	10/30/20	1		0.0	11.22.	ſ
Examiner Level	// Sign	ature D	ate Site Review	(7)	graty		Date
Sonnier, Jason B.	Myr Al	10/30/21	007 Rick Portmann	0xx	1 UM	11/20	Laz
Other Level 11	Sign		ate ANII Review	TWI	Signatu	re	Date
LeBlanc, Marc J.	MZH	10/30/20	007 Tom Wyatt, ANII	////////		11/27/	gy



Report No.:	VT-07-288				
Page:	2	of	6		

Summary No.: L1.11.0010

Examiner: Komara, Bernard P. BPIL Level: III Reviewer: Joe Lese, PE Date: 11.22.07

Examiner: Sonnier, Jason B. JBS Level: II Site Review: Rick Portmann Date: 11/22.07

Other: LeBlanc, Marc J. MTL Level: II ANII Review: Tom Wyatt, ANII

#### Comments:

Item #1 (Reference Page 1 – Condition 16): 2-1/2"L X 3" W X 1" Deep: Displacement of cosmetic grout patch over previously existing popout. (See VT-3C Report VT-07-108). VT-1C determined that there is no rust staining, exposed rebar, or additional degradation to the concrete surface.

Item #2 (Reference Page 1 – Condition 22): Wood embedment in concrete. Nail embedment in concrete. (See VT-3C Report VT-07-106). VT-1C determined that this condition tikely resulted from plywood lamination transfer onto the concrete surface, and face of Buttress #4 above the uppermost grease cap. Three (3) nails were also noted. Note: Three (3) metal clips are also located in this area and appear to have been used as lifting/rigging points. No concrete degradation was Identified.

Item #3 (Reference Page 1 – Condition 22): Nail embedment in concrete. (See VT-3C Report VT-07-106).

Nails are ~12" below the horizontal concrete joint and every 12" – 18" between Buttress #4 and Buttress #5. There are a total of ~ 30 nails. VT-1C determined that there is no additional degradation to the concrete surface.

Item #4 (Reference Page 1 – Condition 02, 16): 32'L X 3/4" W (maximum) X <1/2" Deep (maximum): Cracking, deterioration of cosmetic grout patch. (See VT-3C Report VT-07-106). VT-1C determined that this was a probable cold joint location. The discontinuity extends from Buttress #4 to Buttress #5. No exposed rebar or wire was identified. RE: Photo L:\Engineering\Tech Services\SI IWE & IWL\Photo\2007 R15 IWL Photo\VT-07-288-1.jpg.

Item #5 (Reference Page 1 – Condition 02, 16): ~8'L X 1" W (maximum) X 1/2" Deep (maximum): Cracking, deterioration of cosmetic grout patch. (See VT-3C Report VT-07-106). VT-1C determined that this discontinuity which extends from Buttress #4, exhibits no exposed rebar or wire. RE: Photo L:\Engineering\Tech Services\SI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-288-2.jpg.

Item #6 (Reference Page 1 – Condition 02, 16): 18"L X 3/16" W X <1/2" Deep and 12"L X 3/16" W X <1/2" Deep: Cracking, deterioration of two (2) cosmetic grout patch. (See VT-3C Report VT-07-106). VT-1C determined that this discontinuity which extends from Buttress #4, exhibits no exposed rebar or wire. Isolated nails, however, were noted. RE: Photo L:\Engineering\Tech Services\ISI IWE & IWL\Photo\2007 R15 IWL Photo\VT-07-288-3.jpg.

Item #7 (Reference Page 1 – Condition 22): Other (Exposed tie wire In concrete). (See VT-3C Report VT-07-106). VT-1C determined no additional degradation to the concrete.

ttem #8 (Reference Page 1 – Condition 02, 16): 16"L X 3/16" W X <1/2" Deep: Cracking, deterioration of two (2) cosmetic grout patches. (See VT-3C Report VT-07-106). VT-1C determined that no exposed rebar or wire was identified.

Item #9 (Reference Page 1 – Condition 22): Nail embedment in concrete. (See VT-3C Report VT-07-106). VT-1C determined that there is no additional degradation to the concrete surface.

Hem #10 (Reference Page 1 - Condition 03): 30"L X 8" W (maximum) X 3/16" Deep (maximum): Delamination. (See VT-3C Report VT-07-106). VT-1C determined that no exposed rebar or wire was identified.

Item #11 (Reference Page 1 - Condition 02, 16): 12"L X 3/16" W X <1/2" Deep: Cracking, deterioration of two (2) cosmetic grout patches. (See VT-3C Report VT-07-106). VT-1C determined that no exposed rebar or wire was identified.

them #12 (Reference Page 1 – Condition 22): Exposed tie wires in concrete. (See VT-3C Report VT-07-106). VT-1C determined that there is no additional degradation to the concrete surface.



Report No.: VT-07-288 Page:

Summary No.: L1.11.0010

Examiner: Komara, Bernard P.

Level: 111 Reviewer: Joe Lese, PE

Examiner: Sonnier, Jason B.

Level: 11

Site Review: Rick Portmann

MIZ Other: LeBlanc, Marc J.

Level: 11

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

tem #13 (Reference Page 1 - Condition 01): 12"L X 18" W (maximum) X 1" Deep (maximum): Spall. (See VT-3C Report VT-07-106). VT-1C determined that this area is within 6" of a vertical joint. No exposed rebar or wire was identified.

Item #14 (Reference Page 1 - Condition 02, 16): 24"L X 1/2" W (maximum) X <1/2" Deep (maximum); and 14"L X 1/2" W (maximum) X <1/2" Deep (maximum); and 18"L X 1/2" W (maximum) X <1/2" Deep (maximum): Cracking, deterioration of three (3) cosmetic grout patches. (See VT-3C Report VT-07-106). VT-1C determined that no exposed rebar or wire was identified.

ftem #15 (Reference Page 1 - Condition 02, 16): 12"L X 3/4" W X 1/2" Deep: Cracking, deterioration of cosmetic grout patches. (See VT-3C Report VT-07-106). VT-1C determined that no exposed rebar or wire was identified.

Item #16 (Reference Page 1 - Condition 22): Wood embedment in concrete, (See VT-3C Report VT-07-106), VT-1C determined that no concrete degradation was identified.

Item #17 (Reference Page 1 - Condition 22): Wood embedment in concrete, (See VT-3C Report VT-07-106), VT-1C determined that no concrete degradation was identified.

Item #18 (Reference Page 1 - Condition 22): Nail and metal embedment in concrete. (See VT-3C Report VT-07-106). VT-1C determined that there is no additional degradation to the concrete surface.

Item #19 (Reference Page 1 - Condition 22): Nail embedment in concrete. (See VT-3C Report VT-07-106). VT-1C determined that there is no additional degradation to the concrete surface.

Item #20 (Reference Page 1 - Condition 02, 16): 12"L X 5/8" W (maximum) X <1/2" Deep (maximum); and 18"L X 1" W (maximum) X 3/4" Deep (maximum); and 8'L X 1/2" W (maximum) X 1/2" Deep (maximum): Cracking, deterioration of cosmetic grout patches. (three (3) areas). (See VT-3C Report VT-07-106). VT-1C determined that no exposed rebar or wire was identified.

Item #21 (Reference Page 1 - Condition 02): 12"L X 1/16" W X <1/32" Deep: Crack, (See VT-3C Report VT-07-106), VT-1C determined that no exposed rebar or wire was identified.

Hem #22 (Reference Page 1 - Condition 22): Exposed tie wires in concrete. (See VT-3C Report VT-07-106). VT-1C determined that there is no additional degradation to the concrete surface.

Item #23 (Reference Page 1 - Condition 01): 10"L X 2" W (maximum) X 1/2" Deep (maximum): Spall, (See VT-3C Report VT-07-106). VT-1C determined that this area is within 6" of a vertical joint. No exposed rebar or wire was identified.

hem #24 (Reference Page 1 - Condition 22): Exposed tie wires in concrete. (See VT-3C Report VT-07-106). VT-1C determined that there is no additional degradation to the concrete surface.

Item #25 (Reference Page 1 - Condition 09): Staining. (See VT-3C Report VT-07-106), VT-1C determined that there are numerous minor tendon grease leaks at various tendon cap locations. Additionally, previous tendon grease spills are obvious; most notably on Buttress #5 and on the vent duct structure and supports. No additional degradation to the concrete surface was noted.

Item #26 (Reference Page 1 - Condition 22): Embedded boxes in concrete. (See VT-3C Report VT-07-106). VT-1C determined that there is no degradation to surrounding concrete.



Report No.: VT-07-288

Page:

Summary No.: L1.11.0010

Examiner: Komara, Bernard P. BPIL

Levei: Ш Reviewer: Joe Lese, PE

Date: 1.22.0

135 Examiner: Sonnier, Jason B.

Level:

Site Review: Rick Portmann

MIL Other: LeBlanc, Marc J.

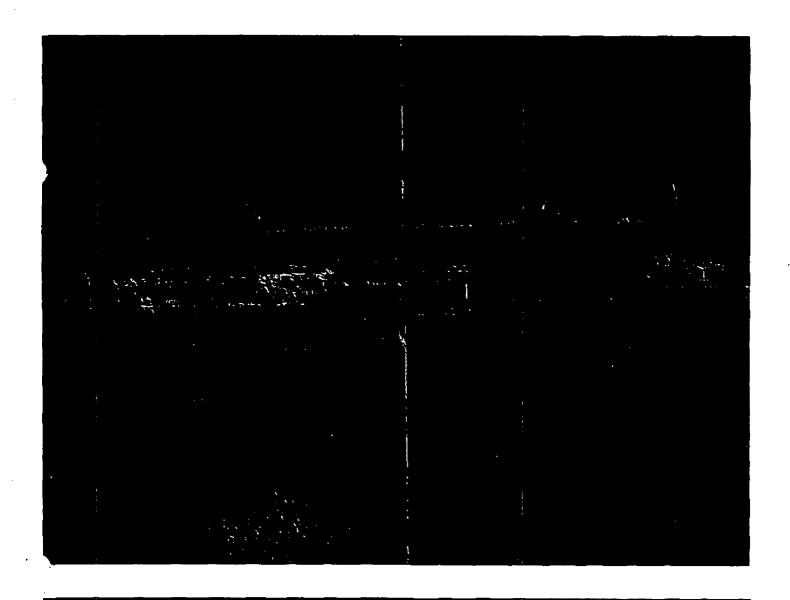
lì Level:

ANII Review: Tom Wyatt, ANII

Comments: PHOTO ASSOCIATED WITH ITEM #4

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Report No.:

VT-07-288

Page:

Summary No.: L1.11.0010

Examiner: Komara, Bernard P. BPIC

Level:

Reviewer: Joe Lese, PE

Date: 11.22.07

Examiner: Sonnier, Jason B.

Level:

Site Review: Rick Portmann

MJZ Other: LeBlanc, Marc J.

Level:

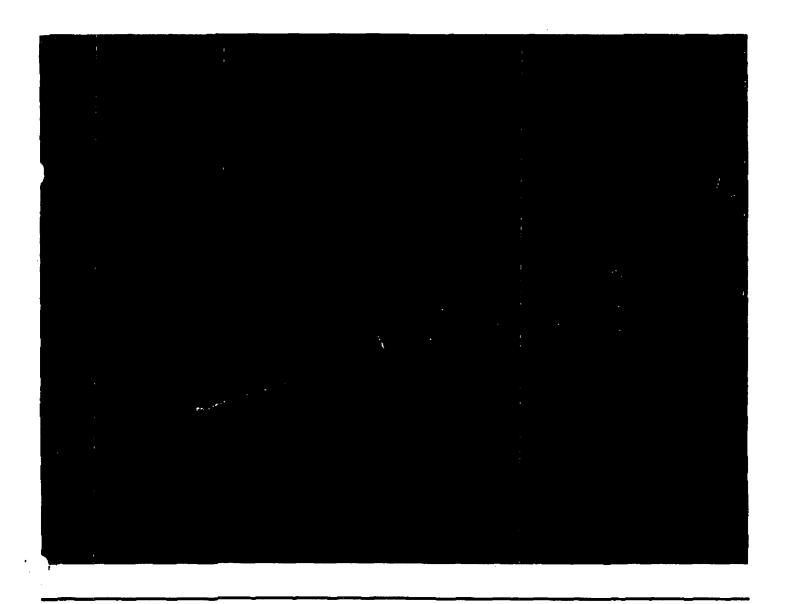
ANII Review: Tom Wyatt, ANII

Date: [[]

Comments: PHOTO ASSOCIATED WITH ITEM # 5

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Report No.:

VT-07-288

Page:

Summary No.: L1.11.0010

Examiner: Komara, Bernard P. BPIL

Level:

Reviewer: Joe Lese, PE

Examiner: Sonnier, Jason B.

Level:

Site Review: Rick Portmann

MIC Other: LeBlanc, Marc J.

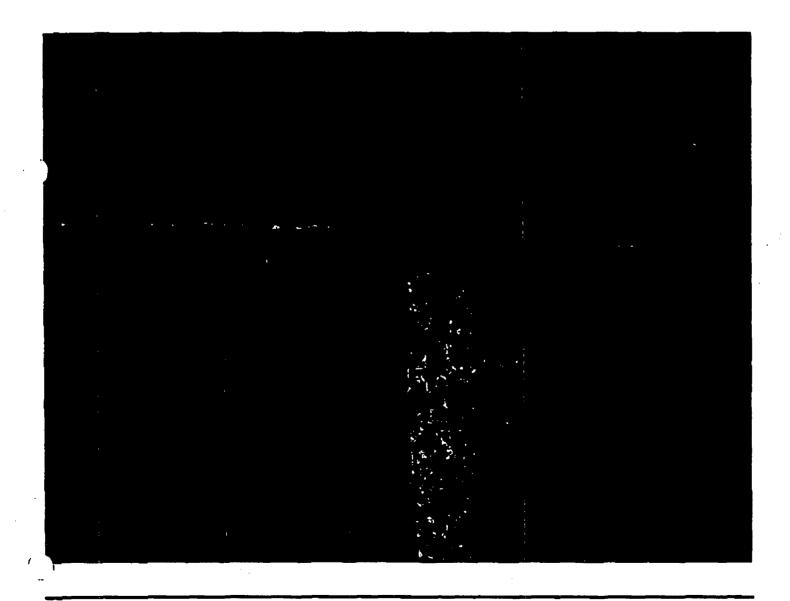
Level:

ANII Review: Tom Wyatt, ANII

Comments: PHOTO ASSOCIATED WITH ITEM # 6

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# Nuclear Generation Group

# Visual Examination of IWL (VT-3C)

Site/Unit: CR	3 / 3	Procedure	e: NAP-02	Outage No.: _	RFO15-IWE	
Summary No.:	L1.11.0011	Procedure Rev	.: <b>2</b>	Report No.:	VT-07-107	
Workscope:	ISI	Work Order No	o.: 681043	Page:	1 of 3	
Code: ASME 1992 Ed	1. Thru 92 Ad. Cat./It	em: <b>L-A/L1.1</b>	1 Location:	EL. 167' to 26	7' 6"	
Drawing No.:	S-425-002	Description: (	Concrete Surface			
System ID: Concret	e Containment	_				
Component ID: RBCN-0	011					
Limitations: EXAMI	Limitations: `EXAMINED ALL ACCESSIBLE AREAS					
Resolution: 1/10th of an Inch Surface Condition: As Found						
Visual Equipment/Aids:	Flashlight, 6° Scale, B	inoculars, Tape Me	easure, Spotlight.			
Inspected From:	Outside Containmo					
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	> 200ftc	
Light Verification Times:			205 / 1300	Cal Out 😿	1645	
Visual Examination:	Direct/Remote		,			
		ent System Or Cor	ntainment Surfaces			
Coated Areas			Non-Coated Areas			
	Annual Paines N/A	See		Annual Daine	See	
4) Cooling	Accept Reject N/A		N Datafalata Da Galasia	Accept Reject	N/A Comments	
1) Spalling	_ X _		P) Reinforcing Bar Corrosion	<del></del>		
2) Cracking		_	Rust Bleeding	<b>X</b> _		
3) Delaminations	<u>x</u>		) Tendon Surface Cracking	_ <u>X</u>		
4) Honeycomb	<u>x</u>	_	i) Efflorescense	· X		
5) Water In Leakage	<u>x</u>	_	i) Cosmetic Patch Bond	_ X		
6) Chemical Leaching	<u>X</u>	_	') Voids			
7) Popouts	X	18	) Erosion	<u>x</u> _		
8) Deflection	<u>x</u>	19	) Pitting	<b>X</b>		
9) Staining		<u>X</u> 20	) Abrasion	<u>x</u> _		
10) Discoloration	X	21	) Segregation	<u>x</u> _		
11) Vibration Damage	X	_ 22	) Other	_ <u>x</u>		
Comments:						
RECORDING CRITERIA TO PREVIOUSLT IDEN			EMO FROM P.E. DATED 9/4 EMENTAL REPORT)	1/01. THE FOLLOW	VING CHANGES	
Results: Accep		Eval 📝	NCR 256010			
Percent Of Coverage Ol		NA	Reviewed Previous I	Data: Yes		
Examiner Level II	Signature	_	Reviewer	Signature	Date	
Sonnier, Jason B.  Examiner Level II	Manature			a. Oly	1.22.07	
Examiner Level J. 3ennett, Charles T.	A STATE OF THE STA		Site Review Rick Portmann	Signature	11/22 67	
Other Level N	A Signature	¥42-3	ANII Review	Signatur	11 177 [67] Dato	
N/A		1	Tom Wyatt, ANII	With	4/21/07	



Report No.: VT-07-107 Page: 2 of

Summary No.: L1.11.0011

Examiner: Sonnier, Jason B.

Level: 11

Reviewer: Joe Lese, PE

Date: \

Examiner: Bennett, Charles T.

Ħ Level:

N/A

Site Review: Rick Portmann

Other: N/A

Level:

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

Item #1 (Reference Page 1 - Condition 16): 3' L x 1" W x 1/4" D, cosmetic patch bond and exposed wire. (See VT-1C Report VT-

Item #2 (Reference Page 1 - Condition 16): 2" L x 1/4" W, cosmetic patch bond and exposed wire. (See VT-1C Report VT-07-227)

Item #3 (Reference Page 1 - Condition 22): 2" long exposed wire. (See VT-1C Report VT-07-227).

Item #4 (Reference Page 1 - Condition 2): tendon service cracking, tendons # 10 thru # 21, 12" L x 1/16"W (See VT-1C Report

Item #5 (Reference Page 1 - Condition 22): 1" long exposed wire (See VT-1C Report VT-07-227).

Item #6 (Reference Page 1 - Condition 22): 3" long exposed wire. (See VT-1C Report VT-07-227).

Item #7 (Reference Page 1 - Condition 16): 3' L x 3/4" W x 1/4" D cosmetic patch bond and exposed wire.. (See VT-1C Report VT-07-227).

Item #8 (Reference Page 1 - Condition 7): 3' L x 1 1/2" W x 1" D, Popout from grouted area, (See VT-1C Report VT-07-227)

Item #9 (Reference Page 1 - Condition 1): 12' L x 7" W x 2 1/2" D, spalling. (See VT-1C Report VT-07-227)

Item #10 (Reference Page 1 - Condition 16): 40' L x 1/2" W x 3/4" D, cosmetic patch bond. (See VT-1C Report VT-07-227)

Item #11 (Reference Page 1 - Condition 2): 8' L x 1/16" W, tendon service cracking. (See VT-1C Report VT-07-227)

ttem #12 (Reference Page 1 - Condition 1): 19' L x 12" W x 1" D, spatting. (See VT-1C Report VT-07-227)



Report No.: <u>VT-07-107</u>
Page: 3 of 3

Summary No.: L1.11.0011

Examiner: Sonnler, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level: II

Level: II

Level: N/A

Reviewer: Joe Lese, PE

Site Review: Rick Portmenn

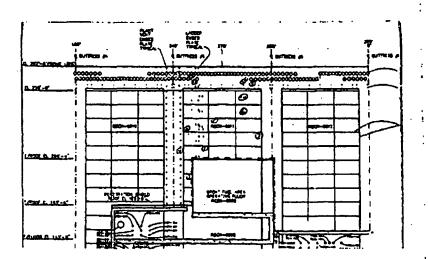
ANII Review: Tom Wyatt, ANII

Date: 4 /27 /a

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Comments:

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## Visual Examination of IWL (VT-1C)

Site/Unit: CR	3 / 3	_ Procedur	e: <u>NAP-02</u>	Outage No.:	RF015-IWE
Summary No.:	L1.11.0011	Procedure Rev	v.: <u>2</u>	Report No.:	VT-07-227
Workscope:	ISI	Work Order No	o.:	Page:	1 of 15
Code: ASME 1992 Ed	. Thru 92 Ad. Cat.	Item: L-A/L1.1	1 Location:	EL. 167' to 26	7' 6"
Drawing No.:	S-425-002	Description:	Concrete Surface		
System ID: Concrete	Containment				
Component ID: RBCN-00	11				
Limitations: EXAMINI	ED ALL ACCESSIBLE	EAREAS			
Resolution: 0.044" Cha	racter Card		Surface Condition: As Fou	nd	
Visual Equipment/Aids:	Flashlight, 6" Scale,	Binoculars, Tape Me	easure, Spotlight.		
Inspected From:	Outside Containn	nent   Gallery/	Pits O Both O		
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (T1-3375)	Illumination:	> 200ftc
Light Verification Times:			205 / 1300	Cal Out 🕢	1645
Visual Examination:	Direct/Remote				
¥13661 CABITITION		Want System Or Co	atalament Surfaces		
		vent System Or Co	ntainment Surfaces		
Coated Areas		See	Non-Coated Areas 🗶		See
	Accept Reject N/A	Comments		Accept Reject	N/A Comments
1) Spalling		<u>X</u> 1:	2) Reinforcing Bar Corrosio	n	<b>X</b> _
2) Cracking		<u>X</u> 1	3) Rust Bleeding		<u>x</u> _
3) Delaminations	X	1.	4) Tendon Surface Cracking		X
4) Honeycomb	X	1:	5) Efflorescense		<u>x</u> _
5) Water In Leakage	X		6) Cosmetic Patch Bond		_ 🗶
6) Chemical Leaching		1	7) Voids		_ X
7) Popouts			8) Erosion		X
8) Deflection	X	1	9) Pitting		<b>x</b> _
9) Staining			0) Abrasion		$\overline{\mathbf{x}}$
10) Discoloration	<u>x</u>	_	1) Segregation		<u> </u>
11) Vibration Damage	X	<u> </u>	2) Other		<u> </u>
Comments:					
SEE SUPPLEMENTAL	REPORT				
Results: Accep	ot 🗍 - Reject 📋	Eval 📝	NCR 256010		
Percent Of Coverage Of		N/A	Reviewed Previous	Data: Ye	
- Ficent Of Overlage Of					
Examiner Level II	Signatur		Reviewer	Signature	Date
Sonnier, Jason B.	Mon Jon		Joe Lese, PE	10. de	1/22.0)
Examiner Level II	Signatur		l ./	Signature	
Bennett, Charles	ALL JA	1/13/2007	Rick Portmann	50 U-1	11/22/07
Other Level N	A Signatur	e Date	ANII Review Tom Wyatt, ANII	The hotel	Date # 1/27/87
NA			. On Wyatt, Alti		13 [ 2710]



Report No.: Page:

Summary No.: L1.11.0011

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T. Other: N/A

Level: H

11

N/A

Level:

Level:

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Date: Date:

Comments:

Hem #1 (Reference Page 1 - Condition 16): 3' L x 1" W x 1/4" D, cosmetic patch bond and exposed wire. (See VT-3C Report VT-07-107)

Item #2 (Reference Page 1 - Condition 16): 2" L x 1/4" W, cosmetic patch bond and exposed wire. (See VT-3C Report VT-07-107)

Hem #3 (Reference Page 1 - Condition 22): 2" long exposed wire. (See VT-3C Report VT-07-107).

Item #4 (Reference Page 1 - Condition 2): tendon service cracking, tendons # 10 thru # 21, 12" L x 1/16"W (See VT-3C Report VT-07-107)

Item #5 (Reference Page 1 - Condition 22): 1" long exposed wire (See VT-3C Report VT-07-107).

Item #6 (Reference Page 1 - Condition 22): 3" long exposed wire. (See VT-3C Report VT-07-107).

Item #7 (Reference Page 1 - Condition 16): 3' L x 3/4" W x 1/4" D cosmetic patch bond and exposed wire.. (See VT-3C Report VT-07-107).

Item #8 (Reference Page 1 - Condition 7): 3' L x 1 1/2" W x 1" D, Popout from grouted area. (See VT-3C Report VT-07-107)

Item #9 (Reference Page 1 - Condition 1): 12' L x 7" W x 2 1/2" D, spalling. (See VT-3C Report VT-07-107)

Item #10 (Reference Page 1 - Condition 16): 40' L x 1/2" W x 3/4" D, cosmetic patch bond. (See VT-3C Report VT-07-107)

Item #11 (Reference Page 1 - Condition 2): 8' L x 1/16" W, tendon service cracking. (See VT-3C Report VT-07-107)

Item #12 (Reference Page 1 - Condition 1): 19' L x 12" W x 1" D, spalling. (See VT-3C Report VT-07-107)



Report No.: VT-07-227

Page:

Summary No.: L1.11,0011

185 Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level:

Level:

N/A

Reviewer: Joe Less, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

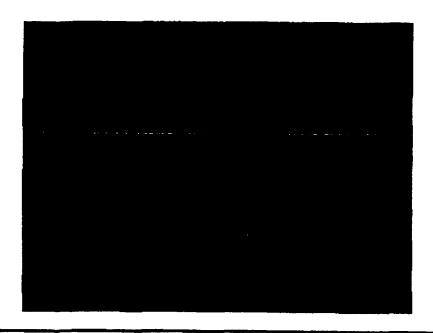
Comments: PHOTOS FOR ITEM #10

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Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-

227-1.JPG

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Report No.:

VT-07-227

Summary No.: L1.11,0011

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level: Level: N/A Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Comments: PHOTOS FOR ITEM #10 (LEFT) AND ITEM #7 (RIGHT)

JBS

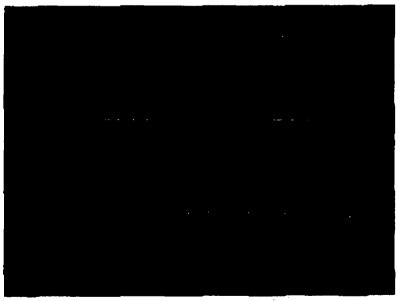
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227-3.JPG

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Report No.:

VT-07-227

Page:

Summary No.: L1.11.0011

Examiner: Sonnler, Jason B.

Examiner: Bennett, Charles T.

Level:

Reviewer: Joe Lese, PE Site Review: Rick Portmann

Other: N/A

Level:

Level:

N/A

ANII Review: Tom Wyatt, ANII

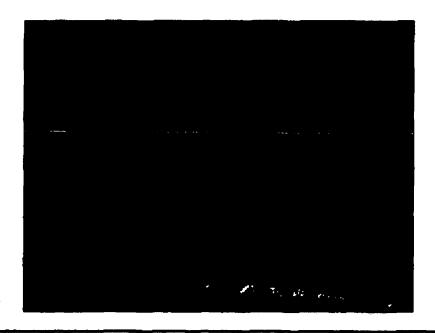
Comments: PHOTOS FOR ITEM #7 (LEFT) AND ITEM #8 (RIGHT)

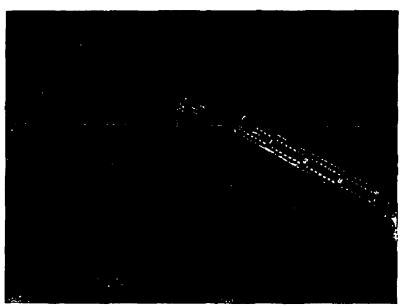
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227-5.JPG

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Report No.:

VT-07-227

Summary No.: L1.11.0011

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Level: Level:

Level:

N/A

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Other: N/A

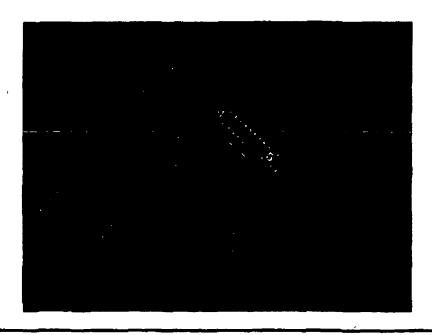
Comments: PHOTOS FOR ITEM #8)

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227-7.JPG

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Report No.:

VT-07-227

Summary No.: L1.11.0011

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level:

Level:

N/A

Reviewer: Joe Lese, PE

ANII Review: Tom Wyatt, ANII

Site Review: Rick Portmann

Comments: PHOTOS FOR ITEM #9

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-227-9.JPG

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Report No.:

VT-07-227

Summary No.: L1.11.0011

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level: N/A Level:

Reviewer: Joe Lese, PE

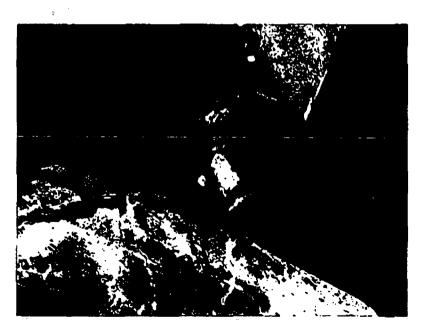
Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Comments: PHOTOS FOR ITEM #9 (LEFT) AND ITEM #6 (RIGHT)

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227-11.JPG



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Report No.:

VT-07-227

of

Summary No.: L1.11.0011

Examiner: Sonnler, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level:

Level: N/A

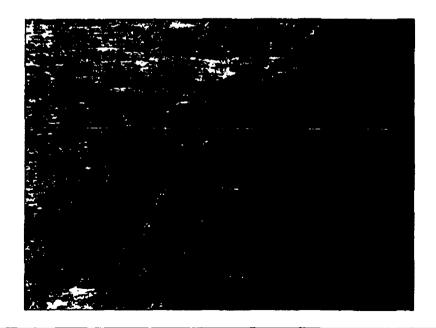
Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Comments: PHOTOS FOR ITEM #5 (LEFT) AND ITEM #10 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-227-13.JPG



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Report No.:

VT-07-227

Page:

Summary No.: L1.11.0011

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level:

Level:

N/A

Reviewer: Joe Lese, PE Site Review: Rick Portmann

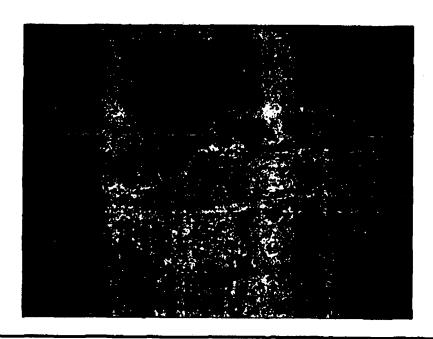
ANII Review: Tom Wyatt, ANII

Comments: PHOTOS FOR ITEM #10 (LEFT) AND ITEM #1 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\tSI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-

227-15.JPG

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Report No.:

VT-07-227

Summary No.: L1.11.0011

Examiner: Sonnler, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level:

Level:

N/A

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Comments: PHOTOS FOR ITEM #1 (LEFT) AND ITEM #12 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-227-19.JPG

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Report No.:

VT-07-227

Summary No.: L1.11.0011

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level:

Level:

N/A

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

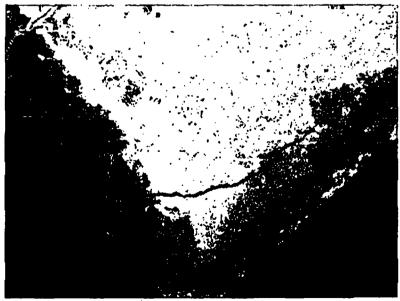
ANII Review: Tom Wyatt, ANII

Comments: PHOTOS FOR ITEM #12 (LEFT) AND ITEM #11 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\\SI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-227-21.JPG



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Report No.:

VT-07-227

Summary No.: L1.11.0011

Other: N/A

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Level: Level:

Level:

N/A

Reviewer: Joe Lese, PE

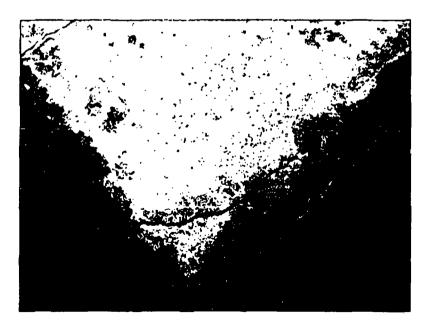
ANII Review: Tom Wyatt, ANII

Site Review: Rick Portmann

Date:

Comments: PHOTOS FOR ITEM #11 (LEFT) AND ITEM #2 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-227-23.JPG



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Report No.:

VT-07-227

Summary No.: L1.11.0011

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level:

Level:

N/A

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Comments: PHOTOS FOR ITEM #4

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-227-25.JPG

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Report No.: VT-07-227

Summary No.: L1.11.0011

Examiner: Sonnier, Jason B.

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level:

Level: II

NA

Reviewer: Joe Lese, PE
Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Date: 11.43

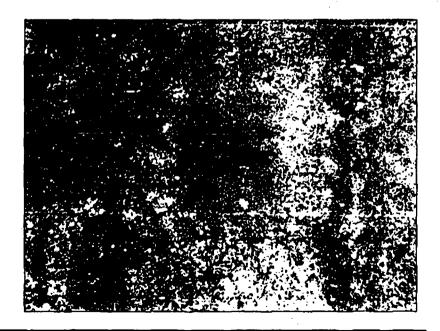
Date: 1/22/02

Date: [//27/02

Comments: PHOTOS FOR ITEM #3

Sketch or Photo:

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# Visual Examination of IWL (VT-3C)

Site/Unit:CR:	3 / 3	Procedure	e: NAP-02	Outage No.:	RFO15-IWE	
Summary No.:	L1.11.0012	Procedure Rev	<i>)</i> .:2	Report No.:	VT-07-108	
Workscope:	ISI	Work Order No	o.: <b>681043</b>	Page:	1 of 3	
Code: ASME 1992 Ed	. Thru 92 Ad. Cat/Ite	em: L-A/L1.1	1 Location:	EL. 149' to EL.	267' 6"	
Drawing No.:	S-425-002	Description: (	Concrete Surface			
System ID: Concrete	Containment	•				
Component ID: RBCN-00	112					
Limitations: EXAMINI	ED ALL ACCESSIBLE	AREAS				
Resolution: 1/10th of a	Resolution: 1/10th of an inch Surface Condition: As Found					
Visual Equipment/Aids:	Flashlight, 6" Scale, Bi				<del></del>	
Inspected From:	Outside Containme					
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	> 200ftc	
Light Verification Times:	Cal in 🕢0830	/12	205 / 1300	Cal Out 😿 _	1645	
Visual Examination:	Direct/Remote	_				
	٧	ent System Or Co	ntainment Surfaces			
Coated Areas		0	Non-Coated Areas 🗶		_	
	Accept Reject N/A	See Comments		Accept Reject	See N/A Comments	
1) Spalling			2) Reinforcing Bar Corrosion	X _		
2) Cracking	<u>x</u>		3) Rust Bleeding	<u> </u>		
3) Delaminations	<u>x</u>	<del></del>	4) Tendon Surface Cracking	<u>x</u> _		
4) Honeycomb	<u>x</u>	<del>_</del>	5) Efflorescense	<u>x</u> _		
5) Water In Leakage	X		6) Cosmetic Patch Bond	<u>X</u>	.—	
6) Chemical Leaching	<u>x</u>	_	7) Voids	<u>x</u> _		
7) Popouts	<b>-</b>	_	B) Erosion			
8) Deflection	<del>-</del>	<del>-</del>	9) Pitting	<u>x</u> _		
9) Staining	<del>x</del> – –	<del></del>	•	<u>x</u> _		
· ·	<del>~</del> – –	<del></del>	O) Abrasion	<u>x</u>	<del></del>	
10) Discoloration	<del>x</del> – –	<del></del>	I) Segregation	<u>x</u> _		
11) Vibration Damage	<u>x</u>		2) Other		X	
Comments:  RECORDING CRITERIA PER APPLICABLE PROCEDURE AND MEMO FROM P.E. DATED 9-4-01. THE FOLLOWING CHANGES TO PREVIOUSLY IDENTIFIED CONDITIONS NOTED (SEE SUPPLEMENTAL REPORT).						
Results: Accep	t 🗌 Reject 📙	Eval 🔽	NCR 256010			
Percent Of Coverage Ob	tained > 90%:	N/A	Reviewed Previous (	Data: Ye	s	
Examiner Level 11	Signature	Date	Reviewer	Signature	Date	
LeBlanc, Marc J.	9425C		<b>R</b>	1 /1 -	1/-55.0)	
Examiner Level	Signature		Site Review	() . Signature	Date	
Duplechain, Lenus F.			Rick Portmann	1/27	11/22/07	
Other Level NV			ANII Review	Sanatere	Date	
N/A			Tom Wyatt, ANII	MUUT	11/25/07	



Report No.:	VT-	07-	108
Page:		of	3

Summary No.: L1.11.0012

Other: N/A

Examiner: LeBlanc, Marc J.

MIL

Level:

Level: N/A

Reviewer: Joe Lese, PE

Examiner: Duplechain, Lenus F. LD

Level:

11

ANII Review: Tom Wyatt, ANII

Site Review: Rick Portmann

Date: ,

Comments:

ITEM 1 - (REFERENCE PAGE 1 - CONDITION 16) 1" X 8" GREASE LEAK COMING FROM COSMETIC PATCH BOND THAT RUNS FROM BUTT 6 TO BUTT 1. (SEE VT-3C REPORT VT-07-230)

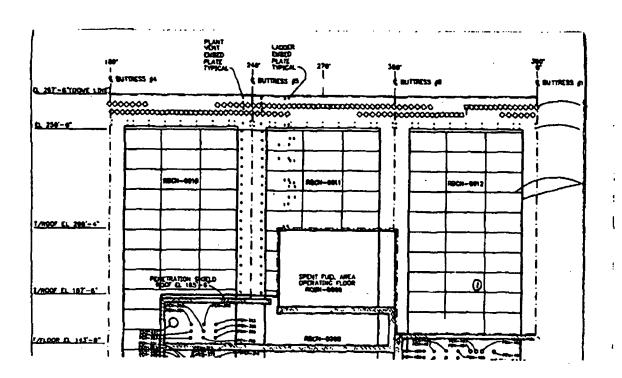


Report No.: VT-07-108

Page: 3 of 3

Summary No.: L1.11.0012

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\RBCN-0012.jpg





# Visual Examination of IWL (VT-1C)

Site/Unit: CR	3 / 3	Procedur	e: NAP-02	Outage No.:	RFO15-IWE	
Summary No.:	L1.11.0012	Procedure Rev	/.: <u> </u>	Report No.:	VT-07-230	
Workscope:	ISI	Work Order No	o.: 681043	Page:	1 of 2	
Code: ASME 1992 Ed	. Thru 92 Ad. Cat/It	em: L-A/L1.1	1 Location:	EL. 149' to EL.	267' 6"	
Drawing No.:	S-425-002	Description:	Concrete Surface			
System ID: Concrete	Containment					
Component ID: RBCN-00	)12				·	
	imitations: EXAMINED ALL ACCESSIBLE AREAS					
Resolution: 0.044" Cha	Resolution: 0.044" Character Card Surface Condition: As Found					
Visual Equipment/Aids:	1/10" & 1/32" SCALE,	FLASHLIGHT, TAP	E MEASURE & SPOTLI	GHT		
Inspected From:	Outside Containme	ent   Gallery/	Pits O Both O			
Light Meter Mig.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	>200ftc	
Light Verification Times:	Cal In 🕢0830	11	205 / 130	Cal Out 🛂	1645	
Visual Examination:	Direct/Remote	<b>-</b>				
<u> </u>	•	ent System Or Co	ntainment Surfaces			
Coated Areas		See	Non-Coated Areas	L	See	
	Accept Reject N/A	Comments		Accept Reject	N/A Comments	
1) Spalling		<u>X</u> 13	2) Reinforcing Bar Corro	sion	<b>x</b>	
2) Cracking	X		3) Rust Bleeding		<u>x</u> _	
3) Delaminations	X	1-	4) Tendon Surface Crack	king	<u>x</u> _	
4) Honeycomb	X		5) Efflorescense		<b>X</b> _	
5) Water In Leakage	X	16	6) Cosmetic Patch Bond		_ X	
6) Chemical Leaching	X	11	7) Voids		<u>x</u> _	
7) Popouts		<u>X</u> 18	B) Erosion		<u>x</u> _	
8) Deflection	X	19	9) Pitting		<u>x</u> _	
9) Staining	<u>x</u>		D) Abrasion		<u>x</u> _	
10) Discoloration	<u>X</u>	_ 2	1) Segregation		<u>x</u> _	
11) Vibration Damage	<u>x</u>	_ 2	2) Other		_ X.	
Comments:						
SEE SUPPLEMENTAL	REPORT					
Results: Accep	t [ Reject [	Eval 🔀	NCR 25	6010	·	
Percent Of Coverage Ob	tained > 90%:	N/A	Reviewed Previo		8	
Examiner Level II	Signature	Date	Reviewer	Signature	Date	
LeBlanc, Marc J.	MIK		Joe Lese, PE	10. L	11.55.00	
Examiner Level II	Signature	Date	Site Review	Signature	Date	
Duplechain, Lenus F.	R/L	11/13/2007	Rick Portmann	XXXX	11(22/07	
Other Level N/	A Signature	Date	ANII Review	A Signature	, Qate	
N/A			Tom Wyatt, ANII		11/27/07	



Report No.: VT-07-230

Page:

Summary No.: L1.11.0012

Other: N/A

Examiner: LeBlanc, Marc J.

Level:

Reviewer: Joe Lese, PE

ANII Review: Tom Wyatt, ANII

Date: \\.22.07

Examiner: Duplechain, Lenus F.

Level: Level: N/A

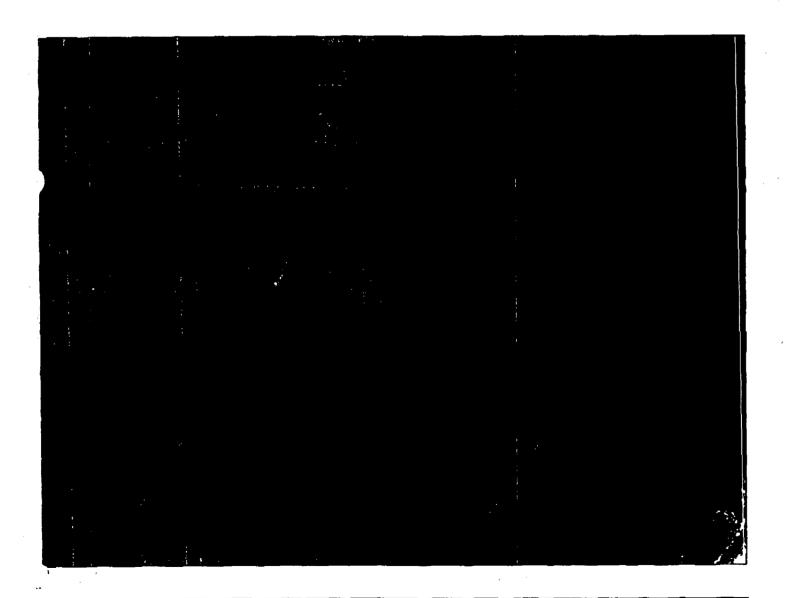
Site Review: Rick Portmann

Comments: ITEM 1 - (REFERENCE PAGE 1 - CONDITION 16) 1" X 8" GREASE LEAK COMING FROM COSMETIC

PATCH BOND THAT RUNS FROM BUTT 6 TO BUTT 1. (SEE VT-3C REPORT VT-07-230)

POOR QUALITY COPY

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-230-1.JPG





# Visual Examination of IWL (VT-3C)

Site/Unit: CR	3 / 3	Procedure:	NAP-02	Outage No.:	RFO15-IWE
Summary No.:	L1.11.0013	Procedure Rev.:	2	Report No.:	VT-07-109
Workscope:	ISI	Work Order No.:	681043	Page:	1 of 3
Code: ASME 1992 Ed	. Thru 92 Ad. Cat/Ite	em: L-A/L1.11	Location:	EL 149' to EL	267 <sup>°</sup> 6°
Drawing No.:	S-425-001	Description: Conc	rete Surface		
System ID: Concrete	e Containment				
Component ID: RBCN-00	013				
-	ED ALL ACCESSIBLE	AREAS			
Resolution: 1/10th of an inch Surface Condition: As Found					
Visual Equipment/Aids:			** <u>-</u> -		
Inspected From:	Outside Containme				
Light Meter Mfg.:	GE Lighting	Serial No.: 069	99 (TI-3375)	Illumination:	>200ftc
Light Verification Times:	Cal In 🗹0830	/ 1205	/ 1300	Cal Out 🙋	1645
Visual Examination:	Direct/Remote		<del></del>		
	v	ent System Or Contain	ment Surfaces	· · · · · · · · · · · · · · · · · · ·	
Coated Areas			n-Coated Areas 🚨		
	Accept Reject N/A	See	•	Accest Flainet	See N/A Comments
1) Spalling		• •	informina Bay Campaign	Accept Reject	N/A Comments
Spalling     Cracking	- x -	<del></del>	inforcing Bar Corrosion		_ X
3) Delaminations	<del>*</del> – –	<del>_</del>	st Bleeding ndon Surface Cracking	<del>~</del> —	
4) Honeycomb	<b>x</b> – –		lorescense	<del>~</del> _	<b>–</b> –
5) Water in Leakage	<del>-</del>			<del>x</del> –	
6) Chemical Leaching	<del>*</del> – –	17) Vo	smetic Patch Bond	<b>x</b> _	_ <del>_</del>
7) Popouts		18) Erd		<del>-</del>	_ X
8) Deflection	<u>x</u>			<u>x</u> _	<b>–</b> –
9) Staining	<del>*</del>	19) Pit	•	<del>x</del> –	
10) Discoloration	<del>*</del> – –	<del></del>		<u>x</u> _	
11) Vibration Damage	X	21) Se	gregation her	<u>x</u> _	_ <u> </u>
Comments:	<u> </u>				
RECORDING CRITERIA CHANGES TO PREVIOUS	I PER APPLICABLE PR USLY IDENTIFIED CON	OCEDURE AND MEMO	FROM P.E. DATED OS	9-04-01. THE FOLL(	DWING
Results: Accep		Eval 🕝	NCR 2	-	
Percent Of Coverage Ot		NA	Reviewed Previous		8
Examiner Level II	Signature	Date Revie	0 -	Signature	Date
LeBianc, Marc J.  Examiner Level II	Signature		Review	Signature	//·55·0
Duplechain, Lenus F.	Signature	l l	Portmann	L A Signature	11 (22 07
Other Level N/	A Signature	Date ANII		Signature	Date
N/A	-		Wyatt, ANII	INN	1/17/07



Report No.:	VT-07-109

Summary No.: L1.11.0013

Examiner: LeBlanc, Marc J.

MJL

Level:

Reviewer: Joe Lese, PE

Examiner: Duplechain, Lenus F.

Level: 11

Site Review: Rick Portmann

Other: N/A

Level: N/A

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

ITEM 1 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 13" X 5" (SEE VT-1C REPORT VT-07-229).

ITEM 2 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 14" X 6" (SEE VT-1C REPORT VT-07-229).

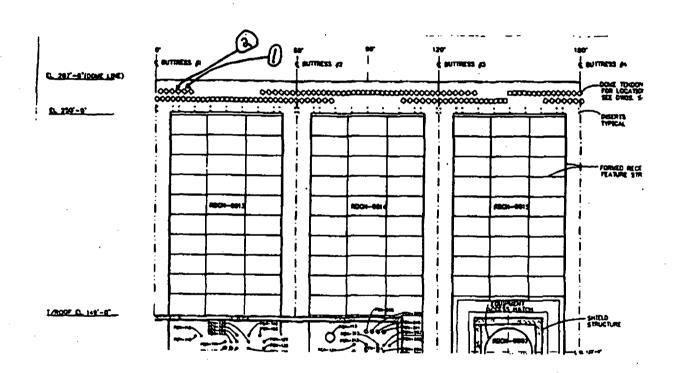


Report No.: VT-07-109

Page: 3 of 3

Summary No.: L1.11.0013

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\RBCN-0013.jpg





# Visual Examination of IWL (VT-1C)

Site/Unit: CR	3 / 3	Procedure:	NAP-02	_ Outage No.:	RFO15-IWE
Summary No.:	L1.11.0013	Procedure Rev.:	2	Report No.:	VT-07-229
Workscope:	ISI	Work Order No.:	681043	Page:	1 of 2
Code: ASME 1992 Ed	. Thru 92 Ad. Cat/Item	n: L-A/L1.11	Location:	EL. 149' to EL.	267' 6"
Drawing No.:	S-425-001	Description: Co	oncrete Surface		
System ID: Concrete	Containment				
Component ID: RBCN-00	)13				
Limitations: EXAMINI	ED ALL ACCESSIBLE AF	IEAS			
Resolution: 0.044* Cha	racter Card	S	urface Condition: As Found		
Visual Equipment/Aids:	1/10" & 1/32" SCALE, FL	ASHLIGHT, TAPE	MEASURE & SPOTLIGHT		
Inspected From:	Outside Containment				
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	>200ftc
Light Verification Times:	Cal In 🔽 0830	/ 120		Cal Out ₩	1645
Visual Examination:	Direct/Remote	<del></del>			
	Ver	nt System Or Conta	ainment Surfaces		
Coated Areas		•	Non-Coated Areas X		
Coaled Aleas	Account Dataset AllA CO	See			See
4) O -18'	Accept Reject N/A C		<b>5</b> .4 . 5 <b>5</b> .	Accept Reject	N/A Comments
1) Spalling			Reinforcing Bar Corrosion	· —	<u> </u>
2) Cracking	<del>X</del>	<del></del>	Rust Bleeding		<u>x</u> –
3) Delaminations	<del>x</del>	<del></del>	Tendon Surface Cracking	<u> </u>	<u>x</u> _
4) Honeycomb	_ · <b>_</b> _	<del></del>	Efflorescense	· — —	<u>x</u> _
5) Water In Leakage	_ <u> </u>		Cosmetic Patch Bond		X
6) Chemical Leaching	X		Voids		_ X
7) Popouts	X	18)	Erosion		<b>X</b> _
8) Deflection	X		Pitting		<b>X</b> _
9) Staining	_ <u> </u>	20)	Abrasion		<b>X</b> _
10) Discoloration	X	21)	Segregation		<u>x</u> _
11) Vibration Damage	X		Other		_ X
Comments: SEE SUPPLEMENTAL F	PEPOPT				
OLL OUT TEMPITIAL					
Results: Accep	t 🗍 Reject 🗌	Eval 🗹	NCR 25601	0	
Percent Of Coverage Ob	tained > 90%:	VA	Reviewed Previous Da	ita: Yes	3
Examiner Level []	Signature	Date Re	eviewer	Signature	Date
LeBlanc, Marc J.	nell	11/13/2007 Jo	e Lese, PE	a. She	11.22.07
Examiner Level II .	Signature	. 1	te Review	Şignature	Date
Ouplechain, Lenus F	12 8		ck Portmann	X UCI	4/22/07
Other Level N/	A Signature		VII Review	Signature	Date
NA		To	om Wyatt, ANII //////		4/27/07



Report No.:

Page:

Summary No.: L1.11.0013

Other: N/A

Examiner: Duplechain, Lenus F.

Examiner: LeBlanc, Marc J.

MJL Level: II

40

Reviewer: Joe Lese, PE Level: 11

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Date:

Comments:

ITEM 1 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 13" X 5" (SEE VT-3C REPORT VT-07-109).

Level: N/A

ITEM 2 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 14" X 6" (SEE VT-3C REPORT VT-07-109).



# Visual Examination of IWL (VT-3C)

Site/Unit: CR	3 / 3	Pr	ocedure: NAP-	02 0	.tage No.:	RFC	15-IWE
Summary No.:	L1.11.0014	Proced	ure Rev.: 2	R	eport No.:	VT-	07-110
Workscope:	ISI	Work O	rder No.: 6810	43	Page:	1	of <u>3</u>
Code: ASME 1992 Ed	. Thru 92 Ad. (	Cat./Item: L-	A/L1.11 Location:	EL 1	19' to EL	276' 6"	
Drawing No.:	S-425-001	Descri	ption: Concrete Surface				
System ID: Concrete	Containment						
Component ID: RBCN-00	)14						
imitations: EXAMINED ALL ACCESSIBLE AREAS							
Resolution: 1/10th of an inch Surface Condition: As Found							
Visual Equipment/Aids:	Flashlight, 6" Sca	ele. Binoculars. T					
Inspected From:	Outside Contr		iallery/Pits O Both				
Light Meter Mig.:	GE Lighting	Serial N		-	nation:	> 2	00ftc
Light Verification Times:		0830 /	1205 /		al Out 🕢		645
Visual Examination:	Direct/Remote	<del></del>			<u> (v</u> ) _		
			Or Containment Surface	29		<del></del>	
Coated Areas			Non-Coated Are				
304.02.003		See					See
_	Ассерт нејест	N/A Comments			pt Reject	N/A	Comments
1) Spalling	X		12) Reinforcing Bar	Corrosion <u>X</u>	_	_	_
2) Cracking		_ X	13) Rust Bleeding	X	_	_	_
3) Delaminations	<u>x</u> _		14) Tendon Surface	Cracking X			_
4) Honeycomb			15) Effiorescense				<u><b>X</b></u>
<ol><li>Water In Leakage</li></ol>	<u>x</u> _		16) Cosmetic Patch	Bond <u>X</u>	_	_	
6) Chemical Leaching	<b>x</b> _		17) Voids	X			
7) Popouts	_ <u>x</u>		18) Erosion	$\overline{\mathbf{x}}$		_	_
8) Deflection	<u>x</u> _		19) Pitting	X		_	_
9) Staining	<u>x</u> _		20) Abrasion			_	_
10) Discoloration			,	<u>X</u>		_	_
11) Vibration Damage	X _		21) Segregation 22) Other	<b>X</b>	_	_	$\overline{\mathbf{x}}$
Comments:							
	I PER APPLICAT	RLE PROCEDURI	AND MEMO FROM P.E	DATED 9/4/01 T	WE EOLLO	WING	CHANGES
			SUPPLEMENTAL REPO		ME I OLLO	WING (	SHAIIGES
Results: Accep	t Reject	☐ Eval 🕢	,	NCR 25601	0		
Percent Of Coverage Ob	tained > 90%:	N/A		Previous Data:	Ye	8	
Examiner Level II	Sign	aturo	Date Reviewer		Signature		
LeBlanc, Marc J.	5-7 2/1		/2007 Joe Lese, PE	101			Date (人・2・2・0つ)
Examiner Level II	Signa		Date Site Review	- Ju 40. 9	Signature		Date
Duplechain, Lenus F.	Lake		/2007 Rick Portmann	1271	2		ulzloz
Other Level N	A Signa	ature	Date ANII Review	TAHIL	gnature		Date
N/A			Tom Wyatt, ANII		U		דמ/דבאו



Report No.:	VT-07-110

Page:

Summary No.: L1.11.0014

MJL Examiner: LeBlanc, Marc J.

Level:

Reviewer: Joe Lese, PE

Date: 1/22.

LD Examiner: Duplechain, Lenus F.

Ħ Level:

Site Review: Rick Portmann

Other: N/A

Level: N/A

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

ITEM 1 - (REFERENCE PAGE 1 - CONDITION 7) POPOUT 3" X 4" X 1" (SEE VT-1C REPORT 07-228)

ITEM 2 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 13" X 8" (SEE VT-1C REPORT 07-228)

ITEM 3 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 29" X 12" (SEE VT-1C REPORT 07-228)

ITEM 4 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 27" X 6" (SEE VT-1C REPORT 07-228)

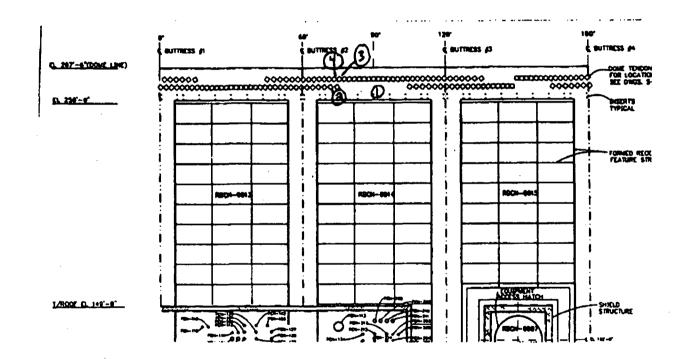


Report No.: VT-07-110

Page: 3 of 3

Summary No.: L1.11.0014

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\RBCN-0014.jpg





## Visual Examination of IWL (VT-1C)

Site/Unit: CR:	3 / 3	Procedure:	NAP-02	Outage No.:	RF015-IWE
Summary No.:	L1.11.0014	Procedure Rev.:	2	Report No.:	VT-07-228
Workscope:	ISI	Work Order No.:	681043	Page:	1 of 2
Code: ASME 1992 Ed.	. Thru 92 Ad. Cat/Item	: L-A/L1.11	Location:	EL 119' to EL 2	276' 6"
Drawing No.:	S-425-001	Description: Co	oncrete Surface		
System ID: Concrete	Containment	_			
Component ID: RBCN-00	014				
·	ED ALL ACCESSIBLE AR	EAS			
Resolution: 0.044" Cha	racter Card	S	Surface Condition: As Found	1	
		<del></del>	MEASURE & SPOTLIGHT		
Inspected From:	Outside Containment				
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	> 200ftc
Light Verification Times:	Cal In 🕢0830	/ 120	05 / 1300	Cal Out 🗑 _	1645
Visual Examination:	Direct/Remote		•		
	Ven	t System Or Cont	ainment Surfaces		
Coated Areas		_	Non-Coated Areas 🗶		
	Accept Reject N/A Co	See omments		Accept Reject	See N/A Comments
1) Spalling	· · · · · · · · · · · · · · · · · · ·		Reinforcing Bar Corrosion	Accept Mojour	
2) Cracking			Rust Bleeding		<del>*</del> –
3) Delaminations	<u>x</u>		Tendon Surface Cracking		X _
4) Honeycomb	<b>—</b> — —	<del></del>	Efflorescense		_ X
5) Water in Leakage	<u>x</u>	<del></del>	Cosmetic Patch Bond		<u> </u>
6) Chemical Leaching	<del>X</del>		Voids		X _
7) Popouts			Erosion		<u>X</u> _
8) Deflection	$\frac{1}{x}$	<del></del>	Pitting		<u>x</u> _
9) Staining	<u>x</u>		Abrasion		<u>x</u> _
10) Discoloration	X		Segregation		X _
11) Vibration Damage	$\frac{1}{x}$		Other		_ X
Continents:					
SEE SUPPLEMENTAL I	REPORT				
Results: Accep	t 🗍 Reject 🗋	Eval 🗹	NCR 2560	710	
Percent Of Coverage Ob		VA .	Reviewed Previous D		s
Examiner Level (	Signature	Date R	and a way	- Ciarata	Care
LeBianc, Marc J.	Signature	1	ce Lese, PE	Signature	Date (\. 22 ⋅ σ′)
Examiner Level II			ite Review	Signature	, Date
Ouplechain, Lenus F.	Telic	- I	lick Portmann	WI	11/22/07
Other Level N/	A Signature	li i	NII Review	Signature	Date
N/A	·	T.	om Wyatt, ANII	1.104 1.19	ו לסלדעון



Report No.:	VT-07-228
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Page:

Summary No.: L1.11.0014

Examiner: LeBlanc, Marc J. MJL

Level:

Reviewer: Joe Lese, PE

Examiner: Duplechain, Lenus F.

Level: li

Site Review: Rick Portmann

Other: N/A

Level: N/A

ANII Review: Tom Wyatt, ANII

#### Comments:

ITEM 1 - (REFERENCE PAGE 1 - CONDITION 7) POPOUT 3" X 4" X 1" (SEE VT-3C REPORT 07-110)

ITEM 2 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 13" X 8" (SEE VT-3C REPORT 07-110)

ITEM 3 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 29" X 12" (SEE VT-3C REPORT 07-110)

ITEM 4 - (REFERENCE PAGE 1 - CONDITION 1) SPALL 27" X 6" (SEE VT-3C REPORT 07-110)



Site/Unit: CR	3 / 3	Procedure	: NAP-02	Outage No.:	RFO15-IWE
Summary No.:	L1.11.0015	Procedure Rev	.: <u>2</u>	Report No.:	VT-07-111
Workscope:	ISI	Work Order No.	.: 681043	Page:	1 of 4
Code: ASME 1992 Ed	. Thru 92 Ad. Cat./Item:	L-A/L1.11	Location:	EL. 119' to EL. 2	267' 6"
Drawing No.:	S-425-001	Description: C	Concrete Surface		
System ID: Concrete	Containment	_			
Component ID: RBCN-00	)15				
	ED ALL ACCESSIBLE ARI	EAS			
Resolution: 1/10th of a	n inch		Surface Condition: As Found		
Visual Equipment/Aids:	Flashilght, 6" Scale, Bino	culars, Tape Me	asure, Spotlight.		
Inspected From:	Outside Containment	<ul><li>Gallery/P</li></ul>	Pits O Both O		
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	> 200ftc
Light Verification Times:	Cal In 🕢0830	/ 12	05 / 1300	Cal Out 🕢	1645
Visual Examination:	Direct/Remote				
	Vent	l System Or Con	tainment Surfaces		
Coated Areas		Con	Non-Coated Areas 🗶		•
	Accept Reject N/A Co	See mments		Accept Reject	See N/A Comments
1) Spalling	_ X _	12	) Reinforcing Bar Corrosion	_ X	
2) Cracking	$\frac{1}{x}$		) Rust Bleeding	<u>x</u> _	
3) Delaminations	X	14	) Tendon Surface Cracking	$\bar{\mathbf{x}}$	
4) Honeycomb	_ x _	15	) Efflorescense	$\overline{\mathbf{x}}$ $\overline{\mathbf{x}}$	_
5) Water In Leakage	<b>x</b>	16	) Cosmetic Patch Bond	_ <u>x</u>	
6) Chemical Leaching	<u>x</u>	17	) Voids	<u> </u>	
7) Popouls	_ <u>x</u> _	18	) Erosion	<u>x</u> _	
8) Deflection	<u> </u>	<del></del>	Pitting	X	
9) Staining	$\frac{1}{x}$	_	) Abrasion	<u>x</u> _	
10) Discoloration	<u>x</u>		) Segregation		
11) Vibration Damage	<u>x</u>	<del></del>	) Other	<u> </u>	
Comments:				·	·····
	PER APPLICABLE PROC TIFIED CONDITIONS NOT		EMO FROM P.E. DATED 9/4/ EMENTAL REPORT)	01. THE FOLLOY	VING CHANGES
Results: Accep	nt 🗌 Reject 🗌	Eval 🗹	NCR 250	6 010	
Percent Of Coverage Ob	tained > 90%: N	/A	Reviewed Previous D		8
Examiner Level III	Signature	Date f	Reviewer	Signature	Date
1	B.P. Komara	1	Joe Lese, PE		11.22.0
Examiner Level II	Signature		Site Review	Signature	Date
LeBianc, Marc J.	MISL	4	Rick Portmann	人で丁	11/22/01
Other Level [	Signature	Date /	ANII Review	A Signature	Date
Bennett, Charles T	As James	== +1/13/2007	Tom Wyatt, ANII	MARINE .	11/28/07



<b>~•</b>						Report No.:	VT-	07-111
						Page:		of 4
Summary No.:	L1.11.0015							
Examiner:	Komara, Bernard P. BPIC	Level:	111	Reviewer:	Joe Lese, PE	look -	Date:	11.22-07
Examiner:	LeBlanc, Marc J. MJC	Level:	11_	Site Review:	Rick Portmann	2011	Date:	robsli
Other:	Bennett, Charles T.	Level:	11	ANII Review:	Tom Wyatt, ANII	MI	_	1/27/07

#### Comments:

Item #1 (Reference Page 1 - Condition 01): 9"L X 6" W (maximum) X 1/2" Deep (maximum): Spall. (See VT-1C Report VT-07-289).

ttem #2 (Reference Page 1 – Condition 12, 22): Reinforcing bar corrosion. Other - wood embedment in concrete, nail embedment in concrete. (See VT-1C Report VT-07-289).

Item #3 (Reference Page 1 - Condition 22): Other - Nail embedment in concrete, exposed tie wire in concrete. (See VT-1C Report VT-07-289).

them #4 (Reference Page 1 - Condition 12): Reinforcing bar corrosion. (See VT-1C Report VT-07-289).

ttem #5 (Reference Page 1 - Condition 12): Reinforcing bar corrosion. (See VT-1C Report VT-07-289).

Item #6 (Reference Page 1 - Condition 22): Other - Natil embedment in concrete, metal corrosion. (See VT-1C Report VT-07-289).

ttem #7 (Reference Page 1 - Condition 22): Other - Nail embedment in concrete. (See VT-1C Report VT-07-289).

Item #8 (Reference Page 1 - Condition 07, 22): 2" Diameter X 1/2" Deep (maximum): Popout, wood embedment in concrete. (See VT-1C Report VT-07-289).)

Item #9 (Reference Page 1 – Condition 22): Other - Nall embedment in concrete, metal corrosion. (See VT-1C Report VT-07-289).

ttem #10 (Reference Page 1 - Condition 09): Staining (rust). (See VT-1C Report VT-07-289).

Item #11 (Reference Page 1 – Condition 01, 22): 7"L X 1-1/2" W (maximum) X 1/2" Deep (maximum) Spall; and 4"L X 1" W (maximum) X 1/2" Deep (maximum) Spall; and Embedded boxes in concrete; and nail embedment in concrete. (See VT-1C Report VT-07-289).

ttem #12 (Reference Page 1 - Condition 02): 40"L X 5/8" W X 1/2" Deep: Cracking. (See VT-1C Report VT-07-289).

Item #13 (Reference Page 1 - Condition 09): Staining (rust). (See VT-1C Report VT-07-289).

Item #14 (Reference Page 1 - Condition 02): 24"L X 1/8" W X <1/2" Deep: Cracking. (See VT-1C Report VT-07-289).

Item #15 (Reference Page 1 - Condition 22): Other - Nail and tie wire embedment in concrete. (See VT-1C Report VT-07-289).

Item #16 (Reference Page 1 - Condition 22): Other - wood embedment in concrete. (See VT-1C Report VT-07-289).

Item #17 (Reference Page 1 - Condition 09): Staining (rust). (See VT-1C Report VT-07-289).

Item #18 (Reference Page 1 – Condition 16): 4"L X 2-1/4" W X 1/2" Deep: Displacement of cosmetic grout patch over previously existing spall. (See VT-1C Report VT-07-289).

Item #19 (Reference Page 1 - Condition 1): 9-1/2"L X 3" W X 2-1/2" Deep: Spall. (See VT-1C Report VT-07-289.



Benot No :

VT-07-111

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							Page:	3	_ of	4
Summary No.:	L1.11.0015						. 1			
Examiner:	Komara, Bernard P.	BPIL	Level:	111	Reviewer:	Joe Lese, PE	Jod .	Date:	11.5	رم)
Examiner:	LeBlanc, Marc J.	MSL	Level:	- 11	Site Review:	Rick Portmann	eup	Date:		alo
Other:	Bennett, Charles T.	0/	Level:	11	ANII Review:	Tom Wyatt, ANII	TAN 1	Date:	1.1/2	7/07
Item #21 (Refi Item #22 (Refi Item #23 (Refi Item #24 (Refi Item #25 (Refi Item #26 (Refi	erence Page 1 - Concerence Page 1 - Conc	dition 1): 6 dition 1): 8 dition 1): 8 dition 22): dition 09): dition 09):	"LX6" W "LX4" W "LX8" W Other - wo Staining ( Staining (	X 5/8" X 1" [ X 3/4' cod en rust). ( rust). (	Deep: Spall. (Seep: Spall. (Seep: Spall. (Seep: Spall. (Seep: Spall. (Seep: Seep: Seep: See VT-1C Repo	ee VT-1C Report VT- e VT-1C Report VT- ee VT-1C Report V ncrete. (See VT-1C ort VT-07-289). ort VT-07-289).	T-07-289). -07-289). T-07-289). Report VT-07-2		over	
	isting spall. (See VT-					,p		F		

VT-1C Report VT-07-289).

Item #31 (Reference Page 1 – Condition 02, 09): Cracking (continuation of intermittent condition described in Item 12), Staining (rust). (See VT-1C Report VT-07-289).

Item #32 (Reference Page 1 – Condition 12, 16): Reinforcing bar corrosion; displacement of cosmetic grout patch over previously existing spall. (See VT-1C Report VT-07-289).

Item #28 (Reference Page 1 - Condition 02): 72"L X 3/16" W X 1/8" Deep: Cracking. (See VT-1C Report VT-07-289).
Item #29 (Reference Page 1 - Condition 07): 1" Diameter X 1/2" Deep (maximum): Popout. (See VT-1C Report VT-07-289).
Item #30 (Reference Page 1 - Condition 4, 22): 6'L X 2" W X ½" Deep: Honeycomb/cold joint area with wire embedment. (See

Item #33 (Reference Page 1 - Condition 09, 22): Staining (rust). Other - elastomer separation. (See VT-1C Report VT-07-289).

ttem #34 (Reference Page 1 – Condition 16): 2" L X ½" W: Displacement of cosmetic grout patch over previously existing spall. (See VT-1C Report VT-07-289).

Item #35 (Reference Page 1 – Condition 1, 16): 4"L X 6" W X %" Deep: Spall; displacement of cosmetic grout patch over previously existing spall. (See VT-1C Report VT-07-289).

Item #36 (Reference Page 1 - Condition 1): 8"L X 4" W X 1-1/2" Deep: Spall. (See VT-1C Report VT-07-289).

Item #37 (Reference Page 1 - Condition 09): Staining. (See VT-1C Report VT-07-289).

Inaccessible Areas:

None

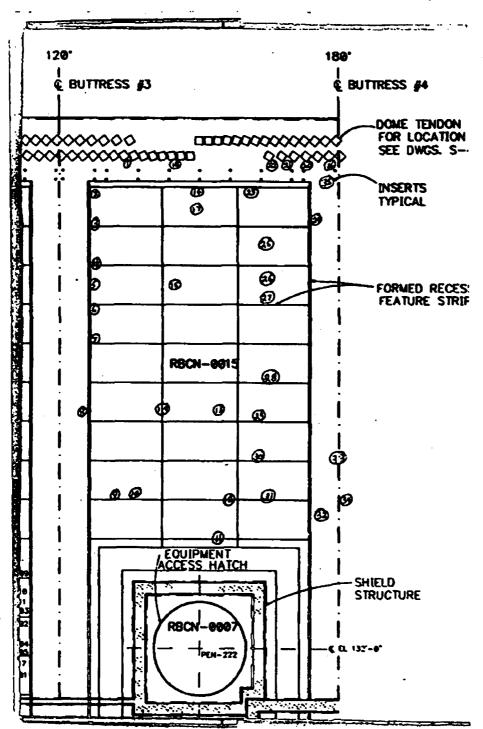


Report No.: VT-07-111

Page: 4 of 4

Summary No.: L1.11.0015

Sketch or Photo: L:\Engineering\Tech Services\SI IWE & IWL\Photos\2007 R15 IWL Photos\RBCN-0015.jpg



# Nuclear Generation Group

Site/Unit: CF	3 / 3	Procedure	NAP-02	Outage No.:	RFO15-IWE
Summary No.:	L1.11.0015	Procedure Rev.	2	Report No.:	VT-07-289
Workscope:	ISI	Work Order No.	681043	Page:	1 of 12
Code: ASME 1992 E	d. Thru 92 Ad. Cat/Iten	n: <b>L-A/L1.11</b>	Location:	EL. 119' to EL.	267' 6"
Drawing No.:	S-425-001	Description: C	oncrete Surface		
System ID: Concret	te Containment	_			
Component ID: RBCN-0	015				
Limitations: EXAMIN	IED ALL ACCESSIBLE AF	REAS			
Resolution: 0.044" Ch	aracter Card		urface Condition: As Fo	und	
Visual Equipment/Aids:	Flashlight, 6" Scale, Bin	oculars, Tape Mea	sure, Spotlight.		
Inspected From:	Outside Containment		ts O Both O		
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	> 200ftc
Light Verification Times	: Cal in 🗹 0830	/ 120		 Cal Out [☑]	1645
Visual Examination:	Direct/Remote				
	Ver	nt System Or Conf	ainment Surfaces		
Coated Areas		·	Non-Coated Areas 🗶		
	Accept Reject N/A C	See		Accept Reject	See N/A Comments
1) Spalling	Accept Hejact 10A C		Reinforcing Bar Corrosid		
2) Cracking			Rust Bleeding	<del>-</del> -	<u> </u>
3) Delaminations	<u>x</u>		Tendon Surface Cracking	<u> </u>	
4) Honeycomb			Efflorescense	·9	<del>X</del> ,
5) Water In Leakage			Cosmetic Patch Bond		X _
-	<del>X</del>				X
6) Chemical Leaching	9 _ X	<del></del>	Voids	<b>–</b> –	<b>X</b> —
7) Popouts	<b>-</b>	<del></del>	Erosion	·	<u>x</u> _
8) Deflection	_ <u> </u>	19)	Pitting	<del>-</del> -	X _
9) Staining		<u>X</u> 20)	Abrasion		<u>x</u> _
10) Discoloration	<u> </u>	21)	Segregation		<b>X</b>
11) Vibration Damage		22)	Other		_ <u>x</u>
Comments: SEE SUPPLEMENTAL	REPORT.				
Results: Acce	pt ☐ Reject ☐	Eval 😿	1100 0	15/0/0	
Percent Of Coverage O		NA	NCR 2  Reviewed Previou		
Examiner Level II	·		eviewer	Signature	Date
Komara, Bernard P.	B.P. Homen	- 11/13/2007 J	oe Lese, PE	10.0h	11.22.0
Examiner Level II	_		ite Review	Rignatule	Date
LeBlanc, Marc J.	miss		ick Portmann	Stop IKI	11/22/07
Other Level II	Signature		NII Review	WHI Lisignature	Date
Bennett, Charles T.	Illus	7   1/13/2007 ل	om Wyatt, ANII	TIPI KANKU	11/27/07



							Report No.:	<u>v</u> т	-07-289
							Page:	2	of 12
Summary No.:	L1.11.0015						1		
Examiner:	Komara, Bernard P.	BPK	Level:	(11	Reviewer.	Joe Lese, PE	las	Oate:	1/22.07
Examiner:	LeBlanc, Marc J.	MSL/	Level:	[1]	Site Review:	Rick Portmann	Sip	Date:	1/22/01
Other:	Bennett, Charles T.	or	Level:		ANII Review:	Tom Wyatt, ANII	Jun	Date:	11/27/07
									<del></del>

#### Comments:

Item #1 (Reference Page 1 - Condition 01): 9"L X 6" W (maximum) X 1/2" Deep (maximum): Spall. (See VT-3C Report VT-07-111). VT-1C determined no exposed rebar or wire.

RE: Photo L:\Engineering\Tech Services\\SI IWE & IWL\Photo\2007 R15 IWL Photo\VT-07-289-1.jpg.

Item #2 (Reference Page 1 – Condition 12, 22): Reinforcing bar corrosion. Other - wood embedment in concrete, nail embedment in concrete. (See VT-3C Report VT-07-111). VT-1C determined that two (2) exposed rebars exhibit medium corrosion with no wastage. Wood embedment likely resulted from plywood lamination transfer onto the concrete surface (10" X 18" area). Three (3) nails were also noted. Note: Five (5) epoxy coated exposed are also located in this area.

Item #3 (Reference Page 1 - Condition 22): Other - Nall embedment in concrete, exposed tie wire in concrete. (See VT-3C Report VT-07-111). VT-1C determined no additional degradation to the concrete.

Item #4 (Reference Page 1 – Condition 02, 12, 22): Cracking along the horizontal joint. Reinforcing bar corrosion, nail embedment. (See VT-3C Report VT-07-111). VT-1C determined intermittent cracking along the horizontal joint. one (1) exposed rebar with light corrosion and no wastage. A nail was also identified in this area.

RE: Photo L:\Engineering\Tech Services\ISI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-2.jpg Item #5 (Reference Page 1 – Condition 12): Reinforcing bar corrosion. (See VT-3C Report VT-07-111). VT-1C determined that an exposed rebar on the edge of Buttress #3 between Grease Caps 40 and 41 exhibits medium corrosion with no wastage.

Item #6 (Reference Page 1 – Condition 22): Other - Nall embedment in concrete, metal corrosion. (See VT-3C Report VT-07-. 111). VT-1C determined no additional degradation to the concrete. The angle iron on the edge of Buttress #3 exhibits light rusting with no wastage

RE: Photo L:\Engineering\Tech Services\ISI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-3.jpg Item #7 (Reference Page 1 - Condition 22): Other - Nail embedment in concrete. (See VT-3C Report VT-07-111). VT-1C determined no additional degradation to the concrete.

Item #8 (Reference Page 1 – Condition 07, 22): 2" Diameter X 1/2" Deep (maximum): Popout, wood embedment in concrete. (See VT-3C Report VT-07-111). VT-1C determined popout of a previous grout patch over rebar. Medium corrosion and staining has resulted. It was also determined that there are plywood remnants in the center joint of Buttress #3 down to ~ elevation 130'. No additional degradation to the concrete was noted.

RE: Photo L:\Engineering\Tech Services\ISI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-4.jpg, VT-07-289-14.jpg Item #9 (Reference Page 1 – Condition 22): Other - Nail embedment in concrete, metal corrosion. (See VT-3C Report VT-07-111). VT-1C determined 8 nails total in the centerline of the horizontal joint. No additional degradation to the concrete was noted.

RE: Photo L:\Engineering\Tech Services\\SI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-5.jpg Item #10 (Reference Page 1 -- Condition 09): Staining (rust). (See VT-3C Report VT-07-111). VT-1C determined that the staining was from embedded metal. No additional degradation to the concrete was noted.

Item #11 (Reference Page 1 - Condition 01, 22): 7"L X 1-1/2" W (maximum) X 1/2" Deep (maximum) Spall; and 4"L X 1" W (maximum) X 1/2" Deep (maximum) Spall; and Embedded boxes in concrete; and nail embeddent in concrete. (See VT-3C Report VT-07-111). VT-1C determined spalls were due to embedded cables near the embedded boxes. Multiple nail locations were also noted as well as smaller Popout areas. No additional degradation to the concrete was noted.

RE: Photo L:\Engineering\Tech Services\ISI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-6.jpg, VT-07-289-15.jpg Item #12 (Reference Page 1 – Condition 02): 40"L X 5/8" W X 1/2" Deep: Cracking. (See VT-3C Report VT-07-111). VT-1C determined no exposed rebar or wire.

RE: Photo L:\Engineering\Tech Services\\SI \WE & \WL\\Photo\\2007 R15 \WL \Photo\\VT-07-289-7.jpg Item #13 (Reference Page 1 – Condition 09): Staining (rust). (See VT-3C Report VT-07-111). VT-1C determined that the staining was from embedded nails. No additional degradation to the concrete was noted.



Report No.: VT-07-289 Page: 3 12 of

Summary No.: L1.11.0015

Examiner: Komara, Bernard P.

Level: 111

Level:

Reviewer: Joe Lese, PE

MSL Examiner: LeBlanc, Marc J.

Level: Ħ

11

Site Review: Rick Portmann

Other: Bennett, Charles T.

ANII Review: Tom Wyatt, ANII

#### Comments:

Item #14 (Reference Page 1 - Condition 02): 24"L X 1/8" W X <1/2" Deep: Cracking. (See VT-3C Report VT-07-111). VT-1C determined no exposed rebar or wire.

ttem #15 (Reference Page 1 - Condition 22): Other - Nail and tie wire embedment in concrete. (See VT-3C Report VT-07-111). VT-1C determined no additional degradation to the concrete.

Item #16 (Reference Page 1 - Condition 22): Other - wood embedment in concrete. (See VT-3C Report VT-07-111). VT-1C determined that wood embedment on the bottom face of the ring girder likely resulted from plywood lamination transfer onto the concrete surface (10" X 18" area).

Item #17 (Reference Page 1 - Condition 09): Staining (rust). (See VT-3C Report VT-07-111). VT-1C determined that the staining was from embedded metal. No additional degradation to the concrete was noted.

Item #18 (Reference Page 1 - Condition 16): 4"L X 2-1/4" W X 1/2" Deep: Displacement of cosmetic grout patch over previously existing spall. (See VT-3C Report VT-07-111). VT-1C determined no exposed rebar or wire.

Item #19 (Reference Page 1 - Condition 1): 9-1/2"L X 3" W X 2-1/2" Deep: Spall, (See VT-3C Report VT-07-111). VT-1C determined exposed bearing plate surface with minor wastage of metal.

RE: Photo L:\Engineering\Tech Services\\SI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-8.jpg Item #20 (Reference Page 1 Condition 1): 12"L X 6" W X 5/8" Deep: Spall. (See VT-3C Report VT-07-111). VT-1C determined no exposed rebar or wire, however there was rust staining present.

RE: Photo L:\Engineering\Tech Services\SI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-9.jpg Item #21 (Reference Page 1 - Condition 1): 6"L X 6" W X 5/8" Deep: Spall. (See VT-3C Report VT-07-111). VT-1C determined no exposed rebar or wire. RE: Photo L:\Engineering\Tech Services\\SI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-10.jpg Item #22 (Reference Page 1 - Condition 1): 8"L X 4" W X 1" Deep: Spall. (See VT-3C Report VT-07-111). VT-1C determined no exposed rebar or wire. RE: Photo L:\Engineering\Tech Services\SI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-11.jpg, VT-07-289-16.jpg ttem #23 (Reference Page 1 - Condition 1): 8"L X 8" W X 3/4" Deep; Spall, (See VT-3C Report VT-07-111), VT-1C determined no exposed rebar or wire; however there are five (5) embedded nails in this area.

ttem #24 (Reference Page 1 - Condition 22): Other - wood embedment in concrete. (See VT-3C Report VT-07-111). VT-1C determined that wood embedment likely resulted from plywood lamination transfer onto the concrete surface. Embedded nails and tie wires were also observed. No additional degradation to the concrete was observed.

ttem #25 (Reference Page 1 - Condition 09): Staining (rust). (See VT-3C Report VT-07-111). VT-1C determined that the rust staining originated at the edge of the bearing plate above. No additional degradation to the concrete was observed. ttem #26 (Reference Page 1 - Condition 09): Staining (rust). (See VT-3C Report VT-07-111). VT-1C determined that the staining was from embedded nails. No additional degradation to the concrete was noted.

Item #27 (Reference Page 1 - Condition 1, 16): 30'L X 4" W X 1/2" Deep: Spall; displacement of cosmetic grout patch over previously existing spall. (See VT-3C Report VT-07-111). VT-1C determined that this condition was typical on the west face of Buttress #4, and intermittent areas of exposed wire and rebar were observed. Minor rust staining from bearing plates was noted. Paint was also observed separating from bearing plates and grease caps.

RE: Photo L:\Engineering\Tech Services\\SI IWE & \text{IWL\Photo\2007 R15 IWL Photo\ VT-07-289-12.jpg Item #28 (Reference Page 1 - Condition 02): 72"L X 3/16" W X 1/8" Deep: Cracking. (See VT-3C Report VT-07-111), VT-1C determined intermittent cracking along the horizontal joint. No exposed rebar or wire was observed.

ttem #29 (Reference Page 1 - Condition 07): 1" Diameter X 1/2" Deep (maximum): Popout, (See VT-3C Report VT-07-111), VT-1C determined that a piece of aggregate likely separated along the horizontal joint. No exposed rebar or wire was observed.



Report No.:	VT	-07-2	B9 <sup>-</sup>
Page:	4	of .	12

Summary No.: L1.11.0015

Examiner: Komara, Bernard P. BPIL

Level: III

Reviewer: Joe Lese, PE

Date: 11.22.07

Examiner: LeBlanc, Marc J.

Level: 11

M5L

Site Review: Rick Portmann

Date: 1/27/07

Other: Bennett, Charles T.

Level: II ANII Revi

ANII Review: Tom Wyatt, ANII

Date: 14/27/07

#### Comments:

Item #30 (Reference Page 1 – Condition 4, 22): 6'L X 2" W X ½" Deep: Honeycomb/cold joint area with wire embedment. (See VT-3C Report VT-07-111). VT-1C determined the presence of exposed aggregate and wire along the horizontal joint. No exposed rebar was observed.

RE: Photo L:\Engineering\Tech Services\SI IWE & IWL\Photo\2007 R15 IWL Photo\ VT-07-289-13.jpg Item #31 (Reference Page 1 - Condition 02, 09): Cracking, Staining (rust). (See VT-3C Report VT-07-111). VT-1C determined intermittent cracking along the horizontal joint (continuation of intermittent condition described in Item 12). No exposed rebar or wire was observed. Item #32 (Reference Page 1 - Condition 12, 16): Reinforcing bar corrosion; displacement of cosmetic grout patch. (See VT-3C Report VT-07-111). VT-1C determined reinforcing bar corrosion resulting from displacement of 6" cosmetic grout patch over a previously existing spall on the face of Buttress #4.

Item #33 (Reference Page 1 – Condition 09, 22): Staining (rust). Other – elastomer separation. (See VT-3C Report VT-07-111). VT-1C determined intermittent separation and loss of the elastomer down the center line of Buttress #4. Staining from exposed metal was also observed along the vertical joint.

ttem #34 (Reference Page 1 – Condition 16): 2" L X ½" W: Displacement of cosmetic grout patch over previously existing spall. (See VT-3C Report VT-07-111). VT-1C determined metal wastage in this area on the right side of Buttress #4. Staining from exposed metal was also observed.

ttem #35 (Reference Page 1 - Condition 1, 16): 4"L X 6" W X ¾" Deep: Spall; displacement of cosmetic grout patch over previously existing spall. (See VT-3C Report VT-07-111). VT-1C determined no exposed wire or rebar.

Item #36 (Reference Page 1 – Condition 1): 8"L X 4" W X 1-1/2" Deep: Spall. (See VT-3C Report VT-07-111). VT-1C determined no exposed wire or rebar.

ttem #37 (Reference Page 1 – Condition 09): Staining. (See VT-3C Report VT-07-111). VT-1C determined that there are numerous minor tendon grease leaks at various tendon cap locations. Additionally, previous tendon grease spills are obvious. No additional degradation to the concrete surface was noted.



Report No.: VT-07-289

Summary No.: L1.11.0015

Examiner: LeBlanc, Marc J.

Other: Bennett, Charles T.

BPIC Examiner: Komara, Bernard P.

Level: Level:

Level:

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Comments: PHOTOS ASSOCIATED WITH ITEM # 1 (LEFT) AND ITEM # 4 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\\SI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-

289-1.jpg









Report No.:

VT-07-289

Page:

Summary No.: L1.11.0015

Examiner: LeBlanc, Marc J.

Other: Bennett, Charles T.

Examiner: Komara, Bernard P.

BPIC

Level:

Level:

Level:

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Comments: PHOTOS ASSOCIATED WITH ITEM # 6 (LEFT) AND ITEM # 8 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\\SI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-289-3.jpg



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Report No.:

VT-07-289

Page:

of 12

Summary No.: L1.11.0015

Examiner: Komara, Bernard P.

BPIC

Level: !!!

Reviewer: Joe Lese, PE

Date: 11.22.0

Examiner: LeBlanc, Marc J.

Other: Bennett, Charles T.

MISL

Level: II

Site Review: Rick Portmann

Date: 11/22/6

ANII Review: Tom Wyatt, ANII

Date: (1/27/07

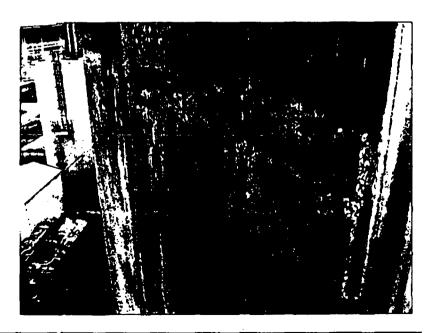
Comments: PHOTOS ASSOCIATED WITH ITEM # 8 (LEFT) AND ITEM # 9 (RIGHT)

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289-14.jpg



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Report No.: VT-07-289

Summary No.: L1.11.0015

BPIL Examiner: Komara, Bernard P.

MJZ Examiner: LeBlanc, Marc J.

Other: Bennett, Charles T.

Level:

Level:

Level:

Reviewer: Joe Lese, PE

Site Review: Rick Portmann ANII Review: Tom Wyatt, ANII

Comments: PHOTOS ASSOCIATED WITH ITEM # 11 (LEFT AND RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-289-6.jpg



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Report No.:

VT-07-289

Summary No.: L1.11.0015

Examiner: Komara, Bernard P.

BPIL MJL

Level:

Reviewer: Joe Lese, PE

Examiner: LeBlanc, Marc J.

Other: Bennett, Charles T.

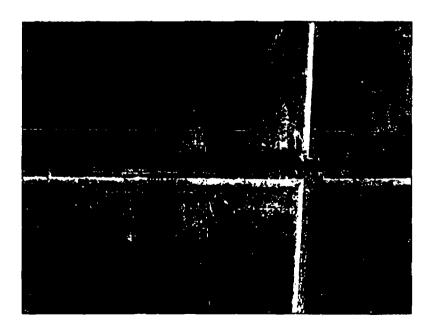
Level: Level:

ANII Review: Tom Wyatt, ANII

Site Review: Rick Portmann

Comments: PHOTOS ASSOCIATED WITH ITEM # 12 (LEFT) AND ITEM # 19 (RIGHT)

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Report No.: VT-07-289

Summary No.: L1.11.0015

Examiner: Komara, Bernard P.

Level: Level:

Level:

Reviewer: Joe Lese, PE

Site Review: Rick Portmann ANII Review: Tom Wyatt, ANII

Comments: PHOTOS ASSOCIATED WITH ITEM # 20 (LEFT) AND ITEM # 21 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-

MSZ

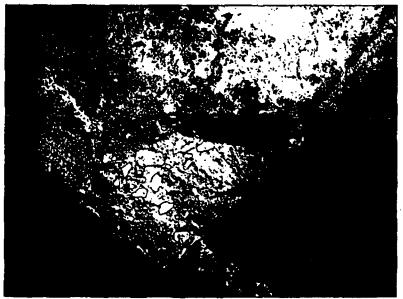
289-9.jpg

Examiner: LeBlanc, Marc J.

Other: Bennett, Charles T.

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Report No .: VT-07-289

Summary No.: L1.11.0015

BPIL Examiner: Komara, Bernard P.

MSZ Examiner: LeBlanc, Marc J.

Other: Bennett, Charles T.

Level:

Level:

Level:

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Reviewer: Joe Lese, PE

Comments: PHOTOS ASSOCIATED WITH ITEM # 22 (LEFT AND RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWL Photos\VT-07-



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Report No.:

VT-07-289

Summary No.: L1.11.0015

Examiner: Komara, Bernard P.

BPIL

Level:

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Level:

Reviewer: Joe Lese, PE

MJZ Examiner: LeBlanc, Marc J.

Other: Bennett, Charles T.

Level:

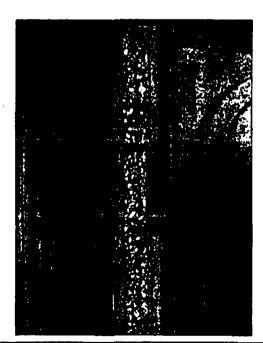
ANII Review: Tom Wyatt, ANII

Site Review: Rick Portmann

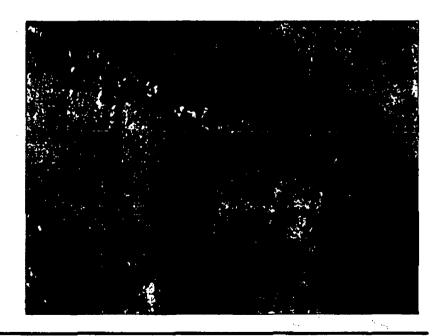
Comments: PHOTOS ASSOCIATED WITH ITEM # 27 (LEFT) AND ITEM # 30 (RIGHT)

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289-12.jpg



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Site/Unit: CR	3 / 3	Procedure:	NAP-02	Outage No.:	RFO15-IWE
Summary No.:	L1.11.0016	Procedure Rev.:	2	Report No.:	VT-07-112
Workscope:	ISI	Work Order No.:	681043	Page:	1 of 1
Code: ASME 1992 Ed	. Thru 92 Ad. Cat /iten	n: L-A/L1.11	Location:	Buttress 1 to Bu	ttress 2
Drawing No.:	S-425-003	Description: Concre	ete Surface		
System ID: Concrete	Containment				
Component ID: RBCN-00		te 2)			
Limitations: NONE	775 (300.000) 1 10 300.00				
	- In oh	04-			
Resolution: 1/10th of a			e Condition: As Four		
	6" Scale, Flashlight, Tap				
Inspected From:	Outside Containment		Both ()		
Light Meter Mfg.:	GE Lighting	Serial No.: 0699	(TI-3375)	Illumination:	> 200ftc
Light Verification Times:	Cal in 🕢0915	/ 1205	/ 1330	Cai Out 🕢	1645
Visual Examination:	Direct	`.			
	Ver	nt System Or Containm	ent Surfaces		
Coated Areas		Non	-Coated Areas 🚨		
_	Assess Palent N/A A	See			See
	Accept Reject N/A C			Accept Reject	N/A Comments
1) Spalling			forcing Bar Corrosion		
2) Cracking	<u>x</u>	-	Bleeding	<u>x</u> –	
3) Delaminations	<u>x</u>		don Surface Cracking	<b>X</b> _	
4) Honeycomb	<u>x</u>	<u> </u>	rescense	<b>X</b> _	<u> </u>
5) Water in Leakage	<u>x</u>	_	metic Patch Bond	<u>x</u> _	
6) Chemical Leaching	<u>x</u>	17) Void		<b>X</b> _	
7) Popouts	<u>x</u>	18) Eros		<u>x</u> _	
8) Deflection	<u>x</u>	19) Pittir	•	<u>x</u> _	
9) Staining	<u>x</u>	20) Abra		<b>X</b>	<del></del>
10) Discoloration 11) Vibration Damage	X	21) Segr	_	<b>x</b> _	
					X
Comments:	PER APPLICABLE PRO	CEDURE AND MEMO	DOM DE DATED OF	AM1 DDEVIOUS D	ATA VEDICIED
AND NO CHANGES NO			NOM P.L. DATED SA	401. PAE41003 D	ATA VERIFICE
Results: Accep	t 🕢 Reject 🗌	Eval 🗌	NCR 256010	)	
Percent Of Coverage Ob	tained > 90%:	VA	Reviewed Previous		<b>3</b>
Examiner Level II	Signature	Date Review	70r	A Signature	Date
LeBlanc, Marc J.	14 Will	11/7/2007 Joe Le		do de la constante de la const	11.14.0
Examiner Level II	Signatura	Date Site Re		Signature	Date
Puptechain, Lenus F.			ortmann	$\Lambda = IV / I$	11/22/07
Other Level N/	A Signature	Date ANII R	eview 7// N	Signature	Date
NA		Tom W	/yatt, ANII /////		11/22/07



Accept Reject N/A Comments  Accept Reject N/A Comments  1) Spalling  X  12) Reinforcing Bar Corrosion  X  2) Cracking  X  13) Rust Bleeding  X  14) Tendon Surface Cracking  X  15) Efflorescense  X  16	
Code: ASME 1992 Ed. Thru 92 Ad. Cat / Item: L-A/L1.11 Location: Buttress 2 to Buttress 3  Drawing No.: S-425-003 Description: Concrete Surface  System ID: Concrete Containment  Component ID: RBCN-0016 (Buttress 2 to Buttress 3)  Limitations: NONE  Resolution: 1/10th of an Inch Surface Condition: As Found  Visual Equipment/Aids: 6° Scale, Flashlight, Tape Measure  Inspected From: Outside Containment   Gallery/Pits O Both O  Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: >200ftc  Light Verification Times: Cal In Ø 0915 / 1205 / 1330 Cal Out Ø 1645  Visual Examination: Direct  Vent System Or Containment Surfaces  Coated Areas See Accept Reject N/A Comments  Accept Reject N/A Comments  1) Spalling X 12) Reinforcing Bar Corrosion X Accept Reject N/A Comments  2) Cracking X 13) Rust Bleeding X 14) Tendon Surface Cracking X 15) Efflorescense X 150 Effloresc	3
Drawing No.: S-425-003 Description: Concrete Surface  System ID: Concrete Containment  Component ID: RBCN-0016 (Buttress 2 to Buttress 3)  Limitations: NONE  Resolution: 1/10th of an Inch Surface Condition: As Found  Visual Equipment/Aids: 6* Scale, Flashlight, Tape Measure  Inspected From: Outside Containment	1
System ID: Concrete Containment  Component ID: RBCN-0016 (Buttress 2 to Buttress 3)  Limitations: NONE  Resolution: 1/10th of an Inch  Visual Equipment/Aids: 6" Scale, Flashtight, Tape Measure  Inspected From: Outside Containment	
Component ID: RBCN-0016 (Buttress 2 to Buttress 3)  Limitations: NONE  Resolution: 1/10th of an inch	
Hesolutions: NONE  Resolution: 1/10th of an Inch  Visual Equipment/Aids: 6* Scale, Flashlight, Tape Measure  Inspected From: Outside Containment	
Resolution: 1/10th of an Inch  Visual Equipment/Aids: 6* Scale, Flashlight, Tape Measure  Inspected From: Outside Containment ⑥ Gallery/Pits ○ Both ○  Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: > 2007cc  Light Verification Times: Cal In ☑ 0915 / 1205 / 1330 Cal Out ☑ 1645  Visual Examination: Direct  Vent System Or Containment Surfaces  Non-Coated Areas 및  See  Accept Reject N/A Comments  Accept Reject N/A Comments  1) Spalling X 12) Reinforcing Bar Corrosion X 2) Cracking X 13) Rust Bleeding X 13) Delaminations X 14) Tendon Surface Cracking X 15) Efflorescense X 15) Efflorescense	
Visual Equipment/Aids: 6° Scale, Flashtight, Tape Measure   Inspected From: Outside Containment	
Visual Equipment/Aids: 6° Scale, Flashtight, Tape Measure   Inspected From: Outside Containment	
Inspected From:  Outside Containment   Gallery/Pits   Both   Light Meter Mfg:  GE Lighting  Serial No.:  0699 (TI-3375)  Illumination:  > 20076c  Light Verification Times:  Cal In   O915 / 1205 / 1330  Cal Out   1645  Visual Examination:  Direct   Vent System Or Containment Surfaces  Non-Coated Areas   Accept Reject N/A Comments  Accept Reject N/A Comments  1) Spalling  X	
Light Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: > 200Rd Light Verification Times: Cal In	
Light Verification Times: Cal In	
Vent System Or Containment Surfaces  Coated Areas	
Vent System Or Containment Surfaces    Non-Coated Areas   X   See	
Coated Areas See  Accept Reject N/A Comments  See  Accept Reject N/A Comments  1) Spalling  X  12) Reinforcing Bar Corrosion  X  2) Cracking  X  13) Rust Bleeding  X  14) Tendon Surface Cracking  X  15) Efflorescense  Non-Coated Areas  Accept Reject N/A Comments  Accept Reject N/A Comments  12) Reinforcing Bar Corrosion  X  13) Rust Bleeding  X  14) Tendon Surface Cracking  X  15) Efflorescense	
See Accept Reject N/A Comments  1) Spalling  X  12) Reinforcing Bar Corrosion  X  2) Cracking  X  13) Rust Bleeding  X  14) Tendon Surface Cracking  X  15) Efflorescense  X  16	
Accept Reject N/A Comments  Accept Reject N/A Comments  1) Spalling  X  12) Reinforcing Bar Corrosion  X  2) Cracking  X  13) Rust Bleeding  X  14) Tendon Surface Cracking  X  15) Efflorescense  X  16	
12) Reinforcing Bar Corrosion X  2) Cracking X	<del>90</del>
2) Cracking X 13) Rust Bleeding X 13) Delaminations X 14) Tendon Surface Cracking X 4) Honeycomb X 15) Efflorescense X	nemis
3) Delaminations X 14) Tendon Surface Cracking X 4) Honeycomb X 15) Efflorescense X	-
4) Honeycomb X 15) Efflorescense X	_
	_
5) Water In Leakage X	-
6) Chemical Leaching X 17) Voids X	-
7) Popouts X 18) Erosion X	_
8) Deflection X 19) Pitting X	_
9) Staining X 20) Abrasion X	_
10) Discoloration X 21) Segregation X	
11) Vibration Damage X 22) Other	<u>.</u>
Comments:  RECORDING CRITERIA PER APPLICABLE PROCEDURE AND MEMO FROM P.E. DATED 9/4/01. PREVIOUS DATA VERIF AND NO CHANGES NOTED  Results: Accept P Reject Eval	ED
Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes	
Examiner Level II Signature Date Reviewer A Signature	Date
Bennett, Charles T. 2 11/7/2007 Joe Lese, PE 0. On 11-14	
Examiner Level    Signature Date Site Review Signature	Date
Sonnier, Jason B. // 11/7/2007 Rick Portmann XX // 1/27	07 Date
Other Level N/A Signature Date ANII Review  Tom Wyatt, ANII    ANII   AN	<b>7</b>



Site/Unit:CR	3 / 3		Procedure	: NAP-02	Outage	No.:RF	015-(WE
Summary No.:	L1.11.0018	F	rocedure Rev	.:2	Report	No.:	T-07-114
Workscope:	ISI	v	Vork Order No	.: 681043		age: 1	of 1
Code: ASME 1992 Ed	. Thru 92 Ad.	Cat/Item:	L-A/L1.11	Location:	Buttress 3	to Buttres	s 4
Drawing No.:	S-425-003		Description: (	Concrete Surface			
System ID: Concrete	Containment		_				
Component ID: RBCN-00	16 (Buttress 3 t	o Buttress 4	)	· ,-	-		
Limitations: NONE			<u></u>	-			
Resolution: 1/10th of a	n inch			Surface Condition: As F	ound		
Visual Equipment/Aids:	6" Scale, Flash	light, Tape N	leasure				
Inspected From:	Outside Con		Gallery/F	rits O Both O			
Light Meter Mfg.:	GE Lighting	S	erial No.:	0699 (TI-3375)	Illumination	):>	200ftc
Light Verification Times:	Cal In 🗹	0915	/ 12	05 / 13	30 Cal Out	t 🕢	1645
Visual Examination:	Direct		-		<del></del>		
		Vent S	ystem Or Con	tainment Surfaces			
Coated Areas				Non-Coated Areas	<b>x</b> .		<b>A</b>
	Accept Reject	Se N/A Comm	<del></del>		Accept Re	eject N/A	See Comments
1) Spalling	_		<u>(</u> 12	) Reinforcing Bar Corro	·	•	
2) Cracking	<u> </u>		_	) Rust Bleeding	$\frac{\overline{\mathbf{x}}}{\mathbf{x}}$		<u> </u>
3) Delaminations	X _		14	) Tendon Surface Crac	king X		
4) Honeycomb	<b>X</b>	_	15	) Efflorescense	<u> </u>		
5) Water In Leakage	<u>x</u> _		16	) Cosmetic Patch Bond	<b>X</b>		
6) Chemical Leaching	<u>x</u> _		17	) Voids	<u>X</u>		_
7) Popouts	<u>x</u> -			) Erosion	X		_
8) Deflection	<u>x</u> _		_	) Pitting	X		• —
9) Staining	<u>x</u> _		~	) Abrasion	X		• –
10) Discoloration	<u>x</u> _			) Segregation	X		• –
11) Vibration Damage	<u>x</u> _			Other			<u></u>
Comments:  RECORDING CRITERIA AND NO CHANGES NO Results: Accep	TED		OURE AND MI	EMO FROM P.E. DATE	D 9/4/01. PREVIO	OUS DATA	VERIFIED
Percent Of Coverage Ob	tained > 90%:	NA		Reviewed Previ	ous Data:	Yes	
Granica Lavel :	- 6:		D-1- 1				
Examiner Level    Bennett, Charles T.	Sign	alure	4	Reviewer loe Lese, PE	Sking		Date Co. Lu. II
Examiner Level II	A Sin	atuge .		Site Review	A G. A		Date
i jonnier, Jason B.	Hun	don	T .	Rick Portmann	The The		1/22/07
Other Level N/	Sign	ature		WII Review	ACH PIEN		Date
N/A				om Wyatt, ANII	MYTHEREER	N	1/27/07



Site/Unit: CR	3 / 3	Procedu	re: NAP-02	Outage No.:	RF015-IWE
Summary No.:	L1.11.0019	Procedure Re	ev.: <u>2</u>	Report No.:	VT-07-115
Workscope:	isi	Work Order N	681043	Page:	1 of 2
Code: ASME 1992 Ed	. Thru 92 Ad. Cat./ite	m: <b>L-A/L1</b> .1	11 Location:	Buttress 4 to Bu	ttress 5
Drawing No.:	S-425-003	Description:	Concrete Surface		
System ID: Concrete	e Containment				
Component ID: RBCN-00	016 (Buttress 4 to Buttre	ess 5)			
	ED ALL ACCESSIBLE A				
Resolution: 1/10th of a	n Inch		Surface Condition: As Four	nd	<del></del>
Visual Equipment/Aids:	6" Scale, Flashlight, Ta	pe Measure		······	
Inspected From:	Outside Containmen		Pits O Both O		
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	>200ftc
Light Verification Times:	Cal in 🕢0915	/1	205 / 1330	Cal Out 🕢	1645
Visual Examination:	Direct				
	Ve	nt System Or Co	Intainment Surfaces		
Coated Areas			Non-Coated Areas 🗶		_
	Accept Reject N/A C	See Comments		Accept Reject	See N/A Comments
1) Spalling			2) Reinforcing Bar Corrosion	• •	
2) Cracking		<del></del>	3) Rust Bleeding	<b>X</b> _	
3) Delaminations	$\frac{\overline{x}}{x} = \frac{\overline{x}}{x}$	_	4) Tendon Surface Cracking		
4) Honeycomb	<u>x</u>		5) Efflorescense	<b>A</b> —	<u> </u>
5) Water in Leakage	X		6) Cosmetic Patch Bond	$\frac{-}{x}$	
6) Chemical Leaching			7) Voids	<u>X</u> _	
7) Popouts	_ X _	<del></del>	8) Erosion		
8) Deflection			9) Pitting	<u>x</u> –	-
•	<u>x</u>		•	<del>z</del> –	
9) Staining		_	0) Abrasion	<b>X</b>	· <del>-</del> -
<ul><li>10) Discoloration</li><li>11) Vibration Damage</li></ul>	X		Segregation     Other	<b>x</b> _	- <del>-</del>
Comments:	<u> </u>		Z, Guiei		_ <u> </u>
	PER ADDI ICARI E PRO	CEDURE AND M	IEMO FROM P.E. DATED 9/	AM1 THE FOLLOW	VING CHANGES
	TIFIED CONDITIONS (SE			40). THE FULLOW	ind changes
Results: Accep	t 🗌 Reject 🗌	Eval 🗹	NCR.	256010	
Percent Of Coverage Ob	tained > 90%:	N/A	Reviewed Previous	Data: Yes	<u> </u>
Examiner Level II	Signature	Date	Reviewer	A Signature	Date
LeBlanc, Marc J.	Mell	•	Joe Lese, PE	10 de	11.14.00
Examiner Level II	Gignature	Date	Site Review	Signature	Date
Puplechain, Lenus F.	Tolah	11/7/2007	Rick Portmann 🗡	LA OL	11/22/07
Other Level N/	Signature	Date	ANII Review	Signature	Date
NA			Tom Wyatt, ANII	IN ANOTH	4127 <i>10</i> 7



Report No.:	VT-07-115

Summary No.: L1,11.0019

Other: N/A

Examiner: LeBlanc, Marc J. Level:

Examiner: Duplechain, Lenus F.

Level: 11 Reviewer: Joe Lese, PE

Site Review: Rick Portmann ANII Review: Wyatt, Thomas W.

Date: //

Comments:

ITEM # 1 (REFERENCE PAGE 1 CONDITION 7) - 1 3/4"L X 2 1/2"W X 7/8" D. SEE VT-1C REPORT VT-07-165

Level: N/A



Description:   S-425-003   Description:   Concrete Surface	Site/Unit: CR	3 / 3	Procedure:	NAP-02	Outage No.:	RFO15-IWE
Code: ASME 1992 Ed. Thru 92 Ad. Cal./lem: L-AL.1.11 Location: Buttress 4 to Buttress 5  Drawing No.: S-425-003 Description: Concrete Surface  System ID: Concrete Containment  Camponent ID: RBCN.0016 (Buttress 4 to Buttress 5)  Limitations: EXAMINED ALL ACCESSIBLE AREAS  Resolution: 0.044* Character Card Surface Condition: As Found  Visual Equipment/Akds: 6* Scale, Flashilght, Tape Measure  Inspected From: Outside Containment	Summary No.:	L1.11.0019	Procedure Rev.:	2	Report No.:	VT-07-165
Drawing No.   S-425-003   Description:   Concrete Surface	Workscope:	ISI	Work Order No.:	681043	Page:	1 of 2
System ID: Concrete Containment Component ID: RBCN-0016 (Buttress 4 to Buttress 5) Limitations: EXAMINED ALL ACCESSIBLE AREAS  Resolution: 0.044* Character Card	Code: ASME 1992 Ed	. Thru 92 Ad. Cat./Item	L-A/L1.11	Location:	Buttress 4 to Bu	ttress 5
Component ID: RBCN-0016 (Buttress 4 to Buttress 5)  Limitations: EXAMINED ALL ACCESSIBLE AREAS  Resolution: 0.044" Character Card	Drawing No.:	S-425-003	Description: Co	ncrete Surface		
Content   Cont	System ID: Concrete	Containment				
Resolution: 0.044" Character Card   Surface Condition: As Found	Component ID: RBCN-00	)16 (Buttress 4 to Buttres	s 5)			
Visual Equipment/Aids:    Inspected From:	Limitations: EXAMINI	ED ALL ACCESSIBLE ARI	EAS			
Inspected From:    County   Co	Resolution: 0.044" Cha	racter Card	Su	rface Condition: As Foun	d	
Light Meter Mfg: GE Lighting Serial No.: 0689 (TI-3375) Illumination: >200ftc  Light Verification Times: Cal In ☑ 0915 / 1205 / 1330 Cal Out ☑ 1645  Visual Examination: Direct  Vent System Or Containment Surfaces  Coated Areas See Accept Reject N/A Comments  1) Spalling X	Visual Equipment/Aids:	6° Scale, Flashlight, Tape	Measure			
Usual Examination: Direct  Vent System Or Containment Surfaces  Coated Areas — See Accept Reject N/A Comments  1) Spalling X = 12) Reinforcing Bar Corrosion X = 2) Cracking X = 13) Rust Bleeding X = 14) Tendon Surface Cracking X = 15) Efflorescense X = 15) Water In Leakage X = 16) Cosmetic Patch Bond X = 15) Water In Leakage X = 16) Cosmetic Patch Bond X = 17) Voids X = 17) Vo	Inspected From:	Outside Containment	<ul><li>Gallery/Pits</li></ul>	Both (		
Vent System Or Containment Surfaces	Light Meter Mfg.:	GE Lighting	Serial No.:	069 <b>9</b> (TI-3375)	Illumination:	>200ftc
Vent System Or Containment Surfaces	Light Verification Times:	Cal in ₩ 0915	/ 1205	/ 1330	Cal Out 🕢	1645
Non-Coated Areas	Visual Examination:	Direct	<del> </del>			
Non-Coated Areas		Vent	System Or Conta	Inment Surfaces		
See   Accept Reject   N/A   Comments	Coated Areas				•	
12   Reinforcing Bar Corrosion   X		Accord Reject N/A Co			Accord Scient	
2) Cracking X	1) Spelling			Pointomina Bar Comocina	•	TVA Comments
3) Delaminations X	•		_	_	_	
4) Honeycomb X	•			<u> </u>		
Signature   Signature   Date   Reviewer   Level   Signature   Date   Level   Signature   Date   Da	•			_		
6) Chemical Leaching X						
7) Popouts	•					
8) Deflection X	-	<del>*</del>				
9) Staining X	•		_			
10) Discoloration X	•					<del>-</del> -
Comments:  SEE SUPPLEMENTAL REPORT  Results: Accept   Reject   Eval   NCR 256010  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level   Signature Date   11/7/2007 Joe Lese, PE   N/A Signature Date   N/A Signa					. —	
Comments:  SEE SUPPLEMENTAL REPORT  Results: Accept   Reject   Eval   NCR 256010  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level   Signature Date   11/7/2007 Joe Lese, PE   N/A   Signature Date   N/A   Signature Date   N/A   Signature Date   N/A   N/A	·				<u>x</u> _	<del>-</del> -
Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level    Signature Date   11/7/2007   Joe Lese, PE    N/4 0    Examiner Level    Signature Date    Signature Date    Dat	Comments:			Julei		<u> </u>
Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level    Signature Date   11/7/2007   Joe Lese, PE    N/4 0    Examiner Level    Signature Date    Signature Date    Dat	Results: Accep	t	Eval 🗹	NCR 256010	2	
LeBlanc, Marc J. 11/7/2007 Joe Lese, PE  Examiner Level II Signature Date Site Review Signature Date Duplechaln, Lenus F. 11/7/2007 Rick Portmann 11/7/2007	Percent Of Coverage Ob	tained > 90%: N	<u>'A</u>	· · · · · · · · · · · · · · · · · · ·		
LeBlanc, Marc J. 11/7/2007 Joe Lese, PE  Examiner Level II Signature Date Site Review Signature Date Duplechaln, Lenus F. 11/7/2007 Rick Portmann 11/7/2007	Examiner Level II	Signature	Data Res	viewer	A Singature	Date
Duplechain, Lenus F. 11/7/2007 Rick Portmann 62 (1/27/07	•••	MM			10 1	
	<b>.</b> .	Signature		./ 😽	Signature	Date
		tela-			71/	11/22/07
Other Level N/A Signature Oate ANII Review Signature Date N/A Tom Wyatt, ANII		A Signature		II Review m Wyatt, ANII	MA LA Sometime	Date Date

# NGG Nuclear Generation Group

### **Supplemental Report**

Report No.: <u>VT-07-165</u>
Page: 2 of 2

Summary No.: L1.11.0019

Examiner: LeBlanc, Marc J. MJZ Lo

Level: II

Reviewer: Joe Lese, PE

Date: 1.72.07

Examiner: Duplechain, Lenus F.

Site Review: Rick Portmann

Date: 1/27/07

Other: N/A

Level: N/A

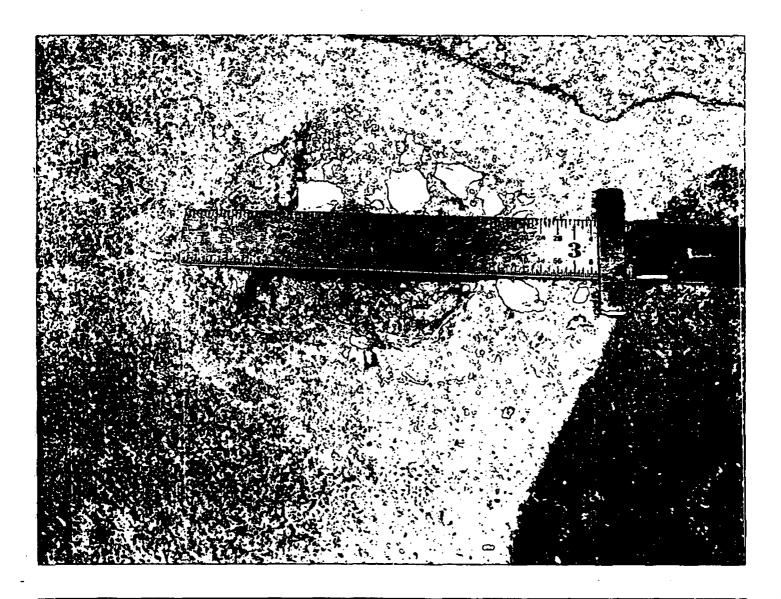
ANII Review: Tom Wyatt, ANII

Date: /1/27//

Comments: ITEM # 1 (REFERENCE PAGE 1 CONDITION 7) - 1 3/4"L X 2 1/2"W X 7/8" D. SEE VT-1C REPORT VT-07-165

Sketch or Photo: L:\Engineering\Tech Services\\St IWE & IWL\Photos\\2007 R15 IWL Photos\\VT-07-165.jpg

**POOR QUALITY COPY** 





Site/Onit: CH.	3 / 3	Procedu	Ie. NAP-UZ	Outage No.:	KFU15-IWE
Summary No.:	L1.11.0020	Procedure Re	ev.: 2	Report No.:	VT-07-116
Workscope:	ISI	Work Order N	io.: 681043	Page:	1 of 1
Code: ASME 1992 Ed	. Thru 92 Ad. Ca	it/ltem: L-A/L1.	11 Location:	Buttress 5 to Bu	ttress 6
Drawing No.:	S-425-003	Description:	Concrete Surface		
System ID: Concrete	Containment				
Component ID: RBCN-00	16 (Buttress 5 to E	luttress 6)			
Limitations: NONE					
Resolution: 1/10th of a	n Inch		Surface Condition: As Foun	d	
Visual Equipment/Aids:	6" Scale, Flashligh	it, Tape Measure			
Inspected From:	. Outside Contair	nment   Gallery	/Pits () Both ()		
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	>200ftc
Light Verification Times:		<del>-</del>	205 / 1330	Cal Out 📝	1645
_		,	1 1330		1045
Visual Examination:	Direct				
		Vent System Or Co	entainment Surfaces		
Coated Areas		See	Non-Coated Areas 🗶		Saa
	Accept Reject N			Accept Reject	See N/A Comments
1) Spalling	•		2) Reinforcing Bar Corrosion	х _	
2) Cracking	$\overline{\mathbf{x}}$ $\overline{\mathbf{z}}$		3) Rust Bleeding	<u>x</u> _	<b>–</b> –
3) Delaminations	<u>x</u>	1	4) Tendon Surface Cracking	<u> </u>	
4) Honeycomb	X	1	5) Efflorescense	<u>x</u> _	
5) Water in Leakage	<u>x</u>	1	6) Cosmetic Patch Bond	<b>x</b> _	
6) Chemical Leaching	X	1	7) Voids	<b>x</b> _ '	
7) Popouts	X	1	8) Erosion	<b>X</b> _	
8) Deflection	<u>x</u>	1	9) Pitting	<b>x</b> _	<del>_</del> _
9) Staining	<u>x</u>	_	0) Abrasion	<u>x</u>	
10) Discoloration	<u>x</u>		1) Segregation	<u>x</u>	
11) Vibration Damage	<u> </u>	2	2) Other		_ X
Comments: RECORDING CRITERIA AND NO CHANGES NO		PROCEDURE AND I	MEMO FROM P.E. DATED 9/4	/01. PREVIOUS D	ATA VERIFIED
Results: Accept	l 🕢 Reject 🗀	Eval 🗀			
Percent Of Coverage Ob	_	N/A	Reviewed Previous D	Pata: Yes	3
Examiner Level []	Signatu	re Date	Reviewer	Λ SignAture	Date
LeBlanc, Marc J.	A SHE		Joe Lese, PE	10.	11.14.07
Examiner Level II	Signatu		Site Review	Signature	Date
Duplechain, Lenus F.	Land, A	11/7/2007	Rick Portmann	(X)	11/2/07
Other Level N/	Signatu	Date	ANII Review	nature	Date
N/A	<del></del>	. `	Tom Wyatt, ANII ////	yyeu _	11/27/07



Site/Unit: CR	3 / 3	Procedu	ire: NAP-02	Outage No.:	RF015-IWE
Summary No.:	L1.11.0021	Procedure Re	ev.:2	Report No.:	VT-07-117
Workscope:	ISI	Work Order N	lo.: 681043	Page:	1 of 1
Code: ASME 1992 Ed	. Thru 92 Ad. Ca	st/liem: L-A/L1.	11 Location:	Buttress 6 to Bu	ttress 1
Drawing No.:	S-425-003	Description:	Concrete Surface		
System ID: Concrete	Containment	<del></del>			
Component ID: RBCN-00	)16 (Buttress 6 to E	Buttress 1)			· · · · · · · · · · · · · · · · · · ·
Limitations: NONE					
Resolution: 1/10th of a	n inch		Surface Condition: As Foun	d	
Visual Equipment/Aids:	6" Scale, Flashligi	ıt, Tape Measure	<del></del>	<u> </u>	
Inspected From:	Outside Contain		/Pits () Both ()		
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	Illumination:	>200ftc
Light Verification Times:	Cal in 🔽 0	915 / 1	205 / 1330	Cal Out 📝	1645
Visual Examination:	Direct				
-		Vent System Or Co	entainment Surfaces		
Coated Areas		•	Non-Coated Areas 🗶		
	Accept Reject N	See		Account Delect	See N/A Comments
1) Spalling			2) Reinforcing Bar Corrosion	Accept Reject	WA Comments
2) Cracking	<u>x</u>	<del>-</del> -	3) Rust Bleeding	Х _ Х _	<del>-</del> -
3) Delaminations			4) Tendon Surface Cracking	X _	
4) Honeycomb	$\overline{\mathbf{x}}$ $\overline{\mathbf{z}}$	_ <u>_</u>	5) Efflorescense	X _	
5) Water In Leakage	<u> </u>		6) Cosmetic Patch Bond	<b>A</b> –	_ <u>x</u>
6) Chemical Leaching	<u> </u>	<del>-</del> -	7) Voids	<u>x</u> _	
7) Popouts	<u> </u>		8) Erosion	<u>x</u> _	
8) Deflection	<u> </u>	<del>-</del> -	9) Pitting	X _	
9) Staining	<u> </u>	<del>-</del> -	0) Abrasion	X _	
10) Discoloration	$\bar{\mathbf{x}}$		1) Segregation	<u>x</u> _	
11) Vibration Damage	<u>x</u>	<del>-</del>	2) Other		_ <u>x</u>
Comments:					
RECORDING CRITERIA AND NO CHANGES NO		PROCEDURE AND A	AEMO FROM P.E. DATED 9/4	V01. PREVIOUS D	ATA VERIFIED
Results: Accep	t 🕢 Reject [	] Eval [			
Percent Of Coverage Ob	tained > 90%:	N/A	Reviewed Previous C	Data: Yes	<u> </u>
Examiner Level [	Signatu	ire Date	Reviewer	▲ Şignature	Date
LeBlanc, Marc J.	MIN	11/7/2007	Joe Lese, PE	ha Le	11.14.00
Examiner Level II	Signate	re Date	Site Review	Signature	Date
Puplechain, Lenus F.	To de	11/7/2007	Rick Portmann		11/27/67
Other Level N/	Signate	re i Date	ANII Review	Strnature	Date
N/A		i	Tom Wyatt, ANII	ישטעשיי '	U12709

### **R15 IWE Examinations**

Component ID	VT-3 Report No	VT-1 Report No	Summary No
Moisture Barrier	VT-07-136	VT-07-148	E5.30.0001
PEN-119	VT-07-141		E8.10.0005
PEN-120	VT-07-142		E8.10.0006
PEN-216	VT-07-137		E8.10.0001
PEN-217	VT-07-138		E8.10.0002
PEN-222	VT-07-139	VT-07-311	E8.10.0003
PEN-348	VT-07-140		E8.10.0004
PEN-436	VT-07-143		E8.10.0007
RBLP-1001	VT-07-088		E1.12.0182
RBLP-1002	VT-07-065	VT-07-166	E1.12.0156
RBLP-1003	VT-07-066	VT-07-306	E1.12.0157
RBLP-1004	VT-07-067		E1.12.0158
RBLP-1005	VT-07-068		E1.12.0159
RBLP-1006	VT-07-069		E1.12.0160
RBLP-2001	VT-07-070		E1.12.0161
RBLP-2002	VT-07-071	VT-07-210	E1.12.0162
RBLP-2003	VT-07-072	VT-07-307	E1.12.0163
RBLP-2004	VT-07-073	VT-07-308	E1.12.0164
RBLP-2005	VT-07-074		E1.12.0165
RBLP-2006	VT-07-075		E1.12.0166
RBLP-3001	VT-07-076		E1.12.0167
RBLP-3002	VT-07-077	VT-07-202	E1.12.0168
RBLP-3003	VT-07-078	VT-07-309	E1.12.0169
RBLP-3004	VT-07-079		E1.12.0170
RBLP-3005	VT-07-080		E1.12.0171
RBLP-3006	VT-07-081		E1.12.0172
RBLP-4001	VT-07-082		E1.12.0173
RBLP-4002	VT-07-083	VT-07-211	E1.12.0174
RBLP-4003	VT-07-084	VT-07-310	E1.12.0175
RBLP-4004	VT-07 <u>-085</u>		E1.12.0176
RBLP-4005	VT-07-086		E1.12.0177
RBLP-4006	VT-07-087		E1.12.0178



## Visual Examination of IWE Interfaces (VT-3)

Site/Unit:	CR3		3	Procedu	re: NDEP-00	620	Outage No.:	RFO15-IWE
Summary No.:		E5.30.0001	<u> </u>	Procedure Re	ev.:2		Report No.:	VT-07-136
Workscope:		ISI		Work Order N	lo.:		Page:	1 of 2
Code: ASME 19	92 Ed. T	hru 92 Ad.	Cat./Iter	n: <b>E-D/E</b> 5.	.30 Location:		REACTOR BUI	LDING
Drawing No.:	S	-525-001		Description:	AZ 0° - 360° (95 R	В)		
System ID: RE	3							
Component ID: Me	oisture B	arrier	· · ·					
	ONE		<del></del>					
Resolution: 1/3	32" Line		······································		Surface Condition:	DRY RAG	WIPED	-
Visual Equipment		Scale Fl	ashlight Ta	ne Measure		<u> </u>	- WII CO	
Inspected From:		ide Contai			Containment ()	Bot	th ()	
Light Meter Mfg.:	G	iE Lighting	•	Serial No.:	0699 (TI-3375)		nination:	>200ftc
Light Verification				,	1030 /	1200	Cal Out 📝	1545
Visual Examination		Direc	<del></del>				_	
Seals, Gaskets &	Moisture	Barriers			Bolting & Bolted	1 Connection	ons	
					Inplace		ssasembled	
				See				See
	Accept	Reject	N/A C	omments		Accept	Reject N/A	Comments
1) Wear		<u>x</u>			8) Loose		_ <u>x</u>	
2) Damage	_	×	_	_	9) Damage	_	_ <u>x</u>	_
3) Tear	_	<u>x</u>	_	_	10) Cracking	_	_ <u>x</u>	_
4) Erosion	<u>x</u>	_		_	11) Wear	_	_ <u>x</u>	_
5) Surface Cracks	· _	<u>x</u>	_		12) Excessive			
6) Adhesion	_	<u>X</u>	_	_	Corrosion	_	_ <u>x</u>	_
7) Other			X	_	13) Other	_	<u>x</u>	
Comments:								
			ls of exami	nation. Additio	nal referencing pro	cedure NAI	P-02, Rev. 2 was	utilized.
Examined all acc	cessidie i	ireas.						
•						, *		
Results:	Accept [	] Re	ject 📋	Eval 🗸	_ AICR#	2560	13-	
Percent Of Cover	age Oblai	ned > 90%	): 	N/A		Previous Da		5
Examiner Lev	/el		Signature	Date	Reviewer		Signature	Dat
Komara, Bernard		B.P.	lomas	11/4/2007	L .		Sea. The	11.160
	el N/A		Signature	Date	Site Review	275	Signature	/ Dat
/A			Planatura.	5	Rick Portmann	050	(Km)	11/2/07
Other Lev	/el N/A	•	Signature	Date	ANII Review Tom Wyatt, ANII	The Al	Signature	Dat Mala lang
.37					17214 7411		MUM_	1411197



Report No.:	VT	-07-13	36
Page:	2	of	2

Summary No.:	E5.30.0001					1	
Examiner:	Komara, Bernard P. 34	Level:	_##	Reviewer:	Joe Lese, PE	box	Date: 11.15.07
Examiner:	N/A	Level:	N/A	Site Review:	Rick Portmann	Sip	Date: n/22/07
Other	NVA	1 0,01:	NUA.	ANII Davious	Town Mirror Abili	1	Data: .a//

Comments

Item #1 (Reference Page 1 - Conditions 01, 02, 03, 05, 06): Wear, damage, tear, surface crack, adhesion areas. (See VT-1 Report VT- 07-148)



## **Visual Examination of IWE Interfaces (VT-1)**

2116\0UII	: <u>CH3</u>		3	Proce	onte: NDEb-	0620	_ Outage I	No.: _	RFO15-IV	WE
Summary No.	.:!	E5.30.0001		Procedure	Rev.: 2		Report	No.: _	VT-07-14	48
Workscope	): 	ISI		Work Order	No.:		_ _ Pa	age: _	1 of	6
ode: ASME	1992 Ed. T	hru 92 Ad.	Cat./Ite	em: E-D/E	5.30 Location	:	REACTOR	BUIL	.DING	
rawing No.:	S	-525-001	<del>_</del>	Description	n: <b>AZ 0° - 360°</b> (95	RB)			,	
ystem ID:	RB			•			<u> </u>		,	
omponent ID:	Moisture B	arrier	<del></del>	····	<del></del>	<del></del>	<del></del>			
•	NONE				***************************************					
Resolution:	1/32" Line				Surface Condition	n: DRY RAG	G WIPED			
Visual Equipme		' Scale, Fla	shlight.	l'ape Measure			<del></del>			····
Inspected From		ide Contain			le Containment O	Bo	oth ()			
Light Meter Mfg	.: <u> </u>	E Lighting		Serial No.:	0699 (TI-3375)	Illu	mination:		>200ftc	
Light Verificatio	n Times: C	al In 🔽	0745	, –	1030 /	1200	Cal Out		1545	
Visual Examina	tion:	Direct								
eals, Gaskets	& Moisture	Barriers			Boiting & Bolt	ed Connecti	ions		· · · · · ·	
					Inplace		issasembled	ı _		
				See	•	•			See	}
	Accept	Reject	NA (	Comments		Accept	Reject	N/A	Comme	≥nts
i) Wear				<u>x</u>	8) Loose			X		
?) Damage	_	_		X	9) Damage	_	_	X		
3) Tear		_	_	<u>x</u>	10) Cracking	_	_	<u>x</u>	_	
l) Erosion		_	: <u>x</u>	_	11) Wear	_		X	_	
5) Surface Crac	ks _	<del>-</del>	_	<u>x</u>	12) Excessive	-			_	
S) Adhesion	_	_	_	<u>x</u>	Corrosion	_		X	_	
7) Other	_	_	<u>x</u>	_	13) Other			X		
Comments:									· · · · · · · · · · · · · · · · · · ·	
	IENTAL RE	PORT FOR	COMME	NTS. EXAMIN	ED ALL ACCESSIBL	E AREAS.				
Results:	Accept [	_] Rejo	ect 🗌	Eval 🗹	NCR	# 256	012			
Percent Of Cov	erage Obtai	ned > 90%:	: <u> </u>	N/A		Previous Da		Yes	5	
Examiner L	evel III	s	ignature	Da	te Reviewer		Signa	iture		D
Komara, Berna		BPK		_ 11/4/200	7 Joe Lese, PE	40	1 <i>n</i> -		11.15.0	
Examiner L	evel N/A	S	ignature	Da	te Site Review	J.	Signa	ture		D
ł			-		Blok Bonner	メノエ	$\mathcal{N}$		. /-	/-
A	evel N/A		ignature	Oa	Rick Portmann te ANII Review	KY	X	iture	11/221	<u>0</u>



Report No.: VT-07-148 Page:

Summary No.: **E5.30.0001** 

Examiner: N/A

Other: N/A

Examiner: Komara, Bernard P.

Level:

N/A

N/A

Level:

Level:

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Comments:

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWE Photos\DSC00335.JPG



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Report No.: VT-07-148 Page:

Summary No.: **E5.30.0001** 

Examiner: N/A

Other: N/A

BPK Examiner: Komara, Bernard P.

Level: Level:

Level:

N/A

N/A

Reviewer: Joe Lese, PE

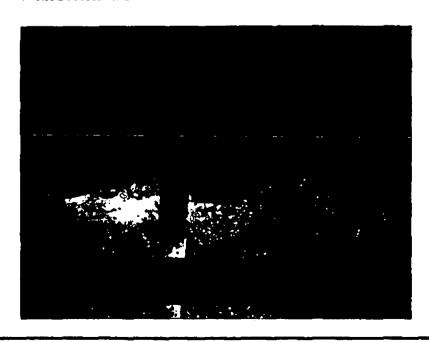
Site Review: Rick Portmann

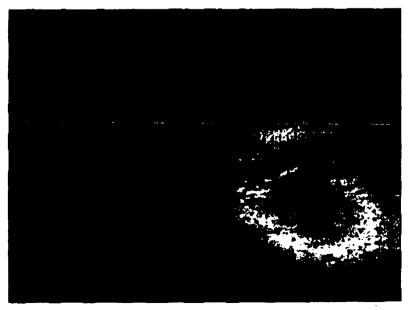
ANII Review: Tom Wyatt, ANII

Comments:

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWE Photos\DSC00337.JPG

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Report No.: VT-07-148

Page: of

Summary No.: **E5.30.0001** 

Examiner: N/A

Other: N/A

BPK Examiner: Komara, Bernard P.

Løvel: Level: N/A

Level:

N/A

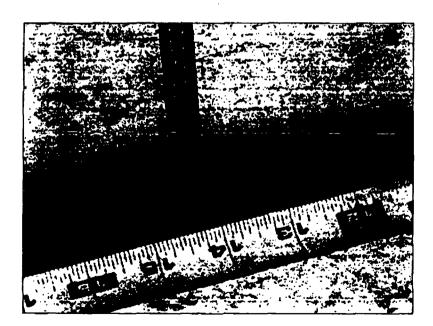
Site Review: Rick Portmann

Reviewer: Joe Lese, PE

ANII Review: Tom Wyatt, ANII

Comments:

Sketch or Photo: L:\Engineering\Tech Services\\SI IWE & IWL\Photos\2007 R15 IWE Photos\DSC00339.JPG



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Report No.: VT-07-148 Page:

Summary No.: E5.30.0001

Examiner: N/A

Other: N/A

BPIC Examiner: Komara, Bernard P.

Level:

N/A

N/A

Level:

Level:

Reviewer: Joe Lese, PE

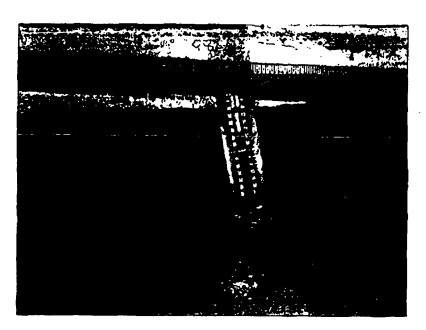
Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

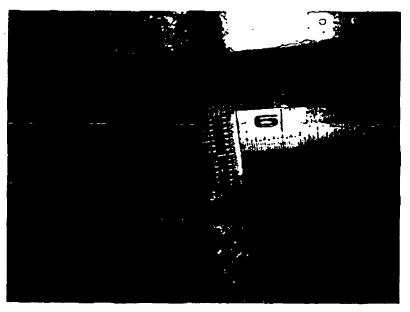
Date:

Comments:

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWE Photos\DSC00341.JPG



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Summary No.: E5.30.0001

Other: N/A

Examiner: Komara, Bernard P.

N/A

#### Supplemental Report

r	1	Page:	6	of <u>6</u>
Reviewer.	Joe Lese, PE	Jose	Date:	11.6.07
te Review:	Rick Portmann	Tail	Date:	11/22/07

VT-07-148

Date: 12/1

Report No.:

#### Comments:

Examiner:

ttem #1 (Reference Page 1 - Conditions 01, 02, 03, 05, 06): Elevation 95'. Wear, damage, tear, surface crack, adhesion areas. (See VT-3 Report 07-136).

Site Review:

ANII Review: Tom Wyatt, ANII

◆□ Approximate Azimuth 210 ~ 215 Degrees: 36" L X 1/16" W X 3-1/4" maximum depth. Separation of moisture barrier from concrete.

Level:

Level:

Level:

Ш

N/A

NA

- Dapproximate Azimuth 208 Degrees: 1-1/2" L X 1/2" W X < 1" maximum depth. Separation of moisture barrier from concrete.
- ■□ Approximate Azimuth 207 195 Degrees: 24" L X 1/16" W X < 1" maximum depth. Intermittent areas of separation of</p> moisture barrier from concrete.
- JApproximate Azimuth 205 Degrees: 12" L X 1/4" W X 9-1/2" maximum depth. Separation of moisture barrier from concrete.
- Approximate Azimuth 180 170 Degrees: <2" L X 1/16" W X 2-1/2" maximum depth. Intermittent areas of separation of moisture barrier from liner. Rust present, no wastage corrosion noted.
- Approximate Azimuth 160 150 Degrees: 2-3" L X 1/16" W X 2" maximum depth. Intermittent areas of separation of moisture barrier from concrete.
- Approximate Azimuth 150 110 Degrees: 2-3" L X 1/16" W X <1/2" maximum depth. Intermittent areas of separation of moisture barrier from liner. Rust present, no wastage corrosion noted.
- •□Approximate Azimuth 110 20 Degrees: 1-2" L X 1/16" W X <1/2" maximum depth, Intermittent areas of separation of moisture barrier from liner. Rust present, no wastage corrosion noted.
- $\square$ Approximate Azimuth 0 340 Degrees: <2" L X <1/16" W X <1/2" maximum depth. Intermittent areas of separation of oisture barrier from concrete and liner. Rust present, no wastage corrosion noted.
- RE: Photo L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWE Photos\DSC00335 00342.jpg.



## Visual Examination of IWE Interfaces (VT-1)

awing No.: S-525-002 Description: 20*, Type VII, Chemical Cleaning  stern ID: Containment Imponent ID: PEN-119 Initiations: EXAMINED IN PLACE UNDER TENSION (SEE COMMENTS)  Resolution: 1/32* Line Surface Condition: As Found  Surface Condition: As Fo		Cho /		riocec		020	Culaye No.,	NFO134111
ASME 1992 Ed. Thru 92 Ad. Cat./Ilem: E-G/E8.10 Location: Containment awing No.: S-525-002 Description: 20°, Type VII, Chemical Cleaning stem ID: Containment awing No.: S-525-002 Description: 20°, Type VII, Chemical Cleaning stem ID: Containment awing No.: Stem ID: Containment	Summary No.:	E8.10.00	05	Procedure R	lev.: 2		Report No.:	VT-07-141
awing No.: S-525-002 Description: 20°, Type VII, Chemical Cleaning  stern ID: Containment  Imponent ID: PEN-119  Initiations: EXAMINED IN PLACE UNDER TENSION (SEE COMMENTS)  Itesolution: 1/32° Line Surface Condition: As Found  Surface Condition: As Found  Inside Containment © Outside Containment © Both ©  Ight Meter Mfg: GE Lighting Serial No.: 0699 (TI-3375) Illumination: >200ftc  Ight Verification Times: Cal In © 1245 / 1530 / N/A Cal Out © 1800  Islasi Examination: Direct  Pals, Gaskets & Molsture Barriers  Botting & Botted Connections  Inplace X Dissasemblod X  See  Accept Reject N/A Comments    Wear	Workscope:	ISI		Work Order	No.: 68104	3	Page:	
stem ID: Containment Imponent ID: PEN-119 Initations: EXAMINED IN PLACE UNDER TENSION (SEE COMMENTS)  Resolution: 1/32* Line	ode: ASME 1992	Ed. Thru 92 A	.d. Cat./Iten	n: <b>E-G/E</b> {	B.10 Location:		Containm	ient
Initiations: EXAMINED IN PLACE UNDER TENSION (SEE COMMENTS)  Resolution: 1/32" Line	rawing No.:	S-525-002	<u> </u>	Description	20", Type VII, Cher	nical Clear	ning	
Resolution: 1/32" Line Surface Condition: As Found    Surface Condition: As Found   Surface Condition: As Found	stem ID: Cont	ainment				<u>—</u>	<del>_</del>	
Surface Condition:   As Found   Itizal Equipment/Aids:   6" Scale, FlashIlght   Inside Containment   Outside Containment   Both   Outside Containment   Outside C	omponent ID: PEN	119			······································			
Inside Containment   Outside Containment   Both   Outside Containment   Both   Outside Containment   Outside Countainment   Outside Countainment   Outside Countainment   Outside Countainment   Outside Cal Out   Outside Cal O	mitations: EXA	MINED IN PLA	CE UNDER TE	NSION (SEE C	COMMENTS)			
Inspected From: Inside Containment   Outside Containment   Both O  ight Meter Mfg.: GE Lighting   Serial No.: 0699 (Ti-3375)   Illumination: >200ftc  ight Verification Times: Cal In   Inglace   See	Resolution: 1/32	' Line		,	Surface Condition:	As Found		
Inspected From: Inside Containment   Outside Containment   Both O  ight Meter Mfg.: GE Lighting   Serial No.: 0699 (Ti-3375)   Illumination: >200ftc  ight Verification Times: Cal In   Inglace   See	Visual Equipment/Ai	ds: 6" Scale,	Flashlight					
ight Meter Mfg.: GE Lighting Serial No.: 0699 (TI-3375)   Illumination: >200ftc   ight Verification Times: Cal In				Outside	Containment O	Во	th O	
ight Verification Times: Cal In	•	GE Lighti	no	Serial No.:	0699 (TI-3375)	lltur	nination:	>200ftc
Bolting & Bolted Connections Inplace X Dissasemblod X See Accept Reject N/A Comments    Wear								
Boiling & Boilin	•	<del></del>		<u> </u>		100		
Near								···-
Near	eals, Gaskets & Mo	olsture Barrier	S		Bolting & Bolted	1 Connection	ons	
Mear				_	Inplace 🗶	Di	ssasemblod 🕽	<del></del>
Wear	<b>A</b>	ccent Relect	t N/A Cr			Accent	Relect NA	_
Damage	~	soept Hejeo	i iva oc	Ammento		носор.	,	· Commen
Damage	i Waar		¥		8) 1 0059			¥
Tear	•			_	•	×	_	
Erosion	, -			_	•			-
Surface CracksX	, ) Eros <b>i</b> on			_				
Adhesion X Corrosion X — — — — — — — — — — — — — — — — — —	) Surface Cracks			_	•	_	_ , _	_
Other X 13) Other XX	) Adhesion			<del></del>		<u>x</u>		
comments:	) Other				13) Other		_ <u>x</u>	
$\cdot$			_	<del></del>				
ADDITIONAL REFERENCING PROCEDURE NAP-02, REV. 02. SEE SUPPLEMENTAL REPORT FOR ADDITIONAL COMMEN			·					
	comments:							
	comments:	RENCING PRO	CEDURE NAI	P-02, REV. 02.	SEE SUPPLEMENTA	AL REPORT	FOR ADDITIO	ONAL COMMEN
	Comments:	RENCING PRO	OCEDURE NAI	P-02, REV. 02.	SEE SUPPLEMENTA	AL REPORT	FOR ADDITIO	DNAL COMMEN
Populte: Account Cit. Reject Cit. Eval. Cit.	Comments: ADDITIONAL REFE				SEE SUPPLEMENTA	AL REPORT	FOR ADDITIO	DNAL COMMEN
	Comments: ADDITIONAL REFE	ocept 🗹 🛭 F	Reject []	Eval	**************************************			
Results: Accept 🕝 Reject 🗌 Eval 🗍 Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes	Comments:  ADDITIONAL REFE	ocept 🗹 🛭 F	Reject []	Eval	**************************************			
Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature D	Comments: ADDITIONAL REFE Results: A	ccept F F e Obtained > 90	Reject [] )%: [	Eval	Reviewed F		ta: Y	'es
Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature D	Comments:  ADDITIONAL REFE  Results: A  Percent Of Coverage  Examiner Level	e Obtained > 90	Reject [] )%: Signature	Eval     N/A     Date	Reviewed F		ta: Y	'es
Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature Comara, Bernard P. B.P. Kornara 11/11/2007 Joe Lese, PE 12.22 Signature Date Site Review Signature Date Site Review	Comments: ADDITIONAL REFE Results: A Percent Of Coverage Examiner Level Examiner Level	e Obtained > 90	Reject [] )%: Signature	Eval	Reviewed F Reviewer Joe Lese, PE Site Review		ta: Y	'es } ( .22.0
Percent Of Coverage Obtained > 90%:  NA  Reviewed Previous Data:  Yes  Examiner Level III Signature  Comara, Bernard P.  B.P. Vormana  11/11/2007 Joe Lese, PE  Examiner Level NA  Signature  Date Site Review  Rick Portmann  II 21	Comments:  ADDITIONAL REFE  Results: A  Percent Of Coverage  Examiner Level  Komara, Bernard P  Examiner Level	e Obtained > 90	Reject   Signature  Signature	Eval	Reviewed for Reviewed for Reviewer  Joe Lese, PE  Site Review Rick Portmann		(Signature	\\.22.0 \\.1/27/



						nepon No	VIT	07-141
						Page:	2	of 2
Summary No.:	E8.10.0005							
Examiner:	Komara, Bernard P. BPIL	Level:		Reviewer:	Joe Lese, PE	box	Date:	11.27.0
Examiner:	N/A	Level:	N/A	Site Review:	Rick Portmann	DIP	Date:	11/27/07
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	TIN	Date:	2/1/07
								67

Comments

TEMPORARY FLANGE INSTALLED FOR OUTAGE WITH PERMANENT STUDS/NUTS IN EVERY OTHER BOLT HOLE. THESE STUDS/NUTS EXAMINED IN PLACE UNDER TENSION. BALANCE OF STUDS/NUTS AND PERMANENT FLANGE ON SCAFFOLD AND EXAMINED DISASSEMBLED.



# Visual Examination of IWE Interfaces (VT-1)

Site Offic.	<u> </u>			1 1000		THE CO	<u></u>	- Culage	-	NFO 13-1	***
Summary No.:		E8.10.0006		Procedure I	Rev.:	2		Report	No.:	VT-07-1	42
Workscope:		ISI		Work Order	No.:	68104	3	- P	age:	1 of	_1_
Code: ASME 1	1992 Ed. T	hru 92 Ad.	Cat./Iter	n: <b>E-</b> G/E	8.10	Location:		Cont	inme	nt	
Drawing No.:	s	-525-002		Description	n: <b>20",</b>	Type VII, Chen	nical Clea	ning			
System ID: C	ontainme	ent									
Component ID: P	EN-120		<del>, , , ,</del>			· · · · · · · · · · · · · · · · · · ·					
· ·		IN PLACE	UNDER TE	NSION						·	
	/32" Line				Sur	face Condition:	As Foun	d			
Visual Equipmen		* Scale Els		<del></del>		dos dong					
Inspected From:	_	side Contair		Outsid	n Cont	ainment ()					
·						_		_			
Light Meter Mfg.:				Serial No.:		9 (TI-3375)		mination: _		>200ftc	
Light Verification	Times: C	Cal In 🐼	1245	′	1530	/	NA	Cal Ou	, 🔼 ¯	1800	
Visual Examinati	ion:	Direct									
Seals, Gaskets &	Moisture	Barriers			В	olting & Bolted	Connecti	ons			
					10	nplaco 🗶	D	issasemble	<b>.</b>		
		<b>-</b>		See				Dalast	NI/A	See	
	Accept	Reject	NA Co	mments			Accept	Reject	N/A	Commo	ents
1) Wear			<u>x</u>		R)	Loose	×				
2) Damage	_	_	<u>x</u>	•	•	Damage	×		_	_	
3) Tear	_	_	<u>x</u>	_	· ·	Cracking	×		_	_	
4) Erosion	_		<u>x</u>	_	-	Wear	<u>x</u>	_	_	_	
5) Surface Crack	s _	_	<u>x</u>	_	12)	Excessive	•	_			
6) Adhesion	_	_	<u>x</u>			Corrosion	X	_	_	_	
7) Other	_	_	<u>x</u>	_	13)	Other	_	-	X		
Comments:											
ADDITIONAL RI	EFERENC	ING PROCI	EDURE NA	P-02. REV. 02.	EXAN	AINED IN PLAC	E UNDER	TENSION	BOL 1	(ED	
CONNECTION											
Results:	Accept {	<b>⊋</b> Rej	ect []	Eval 🔲	_						
Percent Of Cove	rage Obta	ined > 90%:		WA		Reviewed P	revious Da	nta:	Yes	3	
Examiner Le	vel III	s	ignature	Date	e Revi	ewer		Signa	iture	· · · · · · · · · · · · · · · · · · ·	Date
Komara, Bernar		B.P. Ko	_	11/11/200	1	Lese, PE	10			11-22.0	
Examiner Le	vel N/A		ignature	Date		Review	X	Sign	tule		Date
Α	<del></del>				<del></del>	Portmann	<del>R</del> G	( <u>)</u>	1	11/27	7مل
	NA leve	S	ignature	Date	4	Heview	PA	Signa Signa	t e	, s. 1.	Date
NA					Low	Wyatt, ANII		NOOF		_/2/()	07



# Visual Examination of IWE Interfaces (VT-1)

Site/Unit:	CH3	/	3	Proc	odure:	NDEP-0	620	Outage	No.:	RFO15-IWE
Summary No.:		E8.10.0001	l	Procedure	Rev.:	2		Report	No.:	VT-07-137
Workscope:		ISI		Work Orde	er No.:			- _ , P	age:	1 of 2
ide: ASME 19	92 Ed. 1	îhru 92 Ad.	Cat./lt	em: E-G/	E8.10	Location:		Conta	ainme	nt
awing No.:	S	-525-003		Description	on: 12", T	- ype VII, Elec	trical Spar	'e		
stem ID: Co	ntainme	ent		_						
omponent ID: PE	N-216				•			······································		
mitations: ON	E (1) B	OLTING AS	SEMBLY	EXAMINED IN	PLACE, I	INDER TEN	SION (SEE	COMMENT	'S	
Resolution: 1/3	2" Line			<del>,</del>	Surfa	ce Condition:	CLEANE	D		
/isual Equipment/	Aids: 6	" Scale, Fl	ashlight							
spected From:	In	side Contai	nment 📵	Outsi	de Contair	ment ()	Bo	oth.O		
ight Meter Mfg.:	C	3E Lighting	<b>.</b>	Serial No.:	0699	(TI-3375)	Illu	mination:		>200ftc
ight Verification 1	imes: C	Cal In 🕢	1230	, ,	1330	. 1	 N/A	Cal Ou		1400
/isual Examination	n:	Direc	t							
als, Gaskets & I	Moisture	e Barriers			Bol	ting & Bolte	d Connect	ions		
					Inp	lace X	0	issasemble	<b>X</b> b	
				See	·					See
	Accept	Reject	N/A (	Comments			Accept	Reject	NA	Comments
) Wear			J		0) 1					
) Damage	_		<u>x</u>	_	8) L	amage	<u>x</u>	_	_	<u>x</u>
) Tear	_	_	X	_	-	racking	<u>x</u>	_	_	_
, ) Erosion	_		X	_	11) W	-	X		_	
Surface Cracks	_		X	_	•	xcessive			_	
, ) Adhesion		<del></del>	<u>x</u>		•	orrasion	<u>x</u>	_	_	_
Other	_	_	<u>x</u>	_	13) O	ther			<u>x</u>	_
`ammonte:				<u> </u>	· ,					
Comments: ADDITIONAL REI	ERENC	ING PROC	EDURE; N	NAP-02, REV. 2	. SEE SU	PPLEMENT.	AL REPOR	T FOR ADD	ITION	IAL
COMMENTS.										
Results:	Accept (	<b>⊘</b> i Rei	ect []	Eval [		•				
Percent Of Covera	•	_		N/A	· ·	Reviewed	Previous Da	ata:	Yes	<u> </u>
		0 11	Signature		to Review		4	Signa	ature	Da
omara, Bernard  xaminer Levi	<del></del>		ignature	11/11/20	ite   Site Ro	se, PE	<b>A</b>	U. Offe	alues.	\· 25.0^ Da
Blanc, Marc J.			ng nature		07   Rick F		(2)	Sign	· /	. 1 7
ther Love	<u>ا ا</u> اد	1	ignatur				اليور	Signa	ture	11/26/0°
aplechain, Lenu			) // /	11/23/20		Vyatt, ANII	MH.	Madella		47/147



A-9-					Re	port No.:	VT-	07-137	,
	•					Page:	2	of 2	-
Summary No.:	E8.10.0001				٨	1.			
Examiner:	Komara, Bernard P. Bell	Level:	_m_	Reviewer:	Joe Lese, PE	$\Delta_{\perp}$	Date:	11.25.6	)
Examiner	LeBlanc, Marc J. MJL	Level:	11	Site Review:	Rick Portmann	P	Date:	11/24/6	י סס
Other:	Duplechain, Lenus F. //	Level:		ANII Review:	Tom Wyatt, ANII		Date:		- /
							· · · · · · · · · · · · · · · · · · ·		-

### Comments:

Permanent flange bolting disassembled and removed except for one (1) assembly at the 6 o'clock position which was left in place to hold the "rolled-out" flange. Permanent flange and one (1) bolting assembly examined in place on 11/11/07. Balance of bolting examined disassembled on 11/23/07.



# Visual Examination of IWE Interfaces (VT-1)

Site/Offit	Cho /	<u> </u>	rioce	JUI 6.	NDEP-0020		ביו טני	NFO 13-11	***
Summary No.:	E8.10.000	2	Procedure I	Rov.:	2	Repo	ort No.: _	VT-07-1	38
Workscope:	ısı		Work Order	No.:	681043		Page: _	1 of	_2
ode: ASME 1992	Ed. Thru 92 Ad	. Cat./Item	E-G/E	8.10 Lo	ocation:	Co	ntainmer	nt	
awing No.:	S-525-003		Description	12", Type \	/II, Electrical	Spare			
rstem ID: Cont	ainment						· · ·		
omponent ID: PEN	217								
· —	(1) BOLTING AS	SSEMBLY EX	AMINED IN	PLACE, UNDE	R TENSION (	SEE COMME	NTS		
Resolution: 1/32	' Line			Surtace Co	ondition: CLE	ANED			
 Visual Equipment/Ai	ds: 6" Scale, Fl	ashlight					<u>-</u>		
nspected From:	Inside Conta	inment ()	Outsid	B Containmen	1 0	Both ()	-		
_ight Meter Mfg.:	GE Lightin	g :	Serial No.:	0699 (TI-3	; 375)	Illumination:		>200ftc	
ight Verification Tin	nes: Cal In 🔀	1230	, –	1330	/ N/A	Cal (	Out 🗹	1400	
Visual Examination:	Direc				-				
eals, Gaskets & Mo	isture Barriers			Bolting i	& Bolted Con	nections			
				inplace	X	Dissasemb	led X		
			See					See	
A	ccept Reject	N/A Cor	nments		Acc	ept Reject	NA	Comme	ents
) Wear ) Damage		X	-	8) Loose		<del>,</del> –	_	x	
i) Tear		<u>X</u>	_	9) Damaç 10) Cracki	-		_		
) Frosion		<u>x</u>	<del>-</del>	11) Wear	ng <u>)</u> <u>)</u>			_	
i) Surface Cracks		<u>x</u>	_	12) Excess		<u> </u>	_	_	
) Adhesion			_	Corros	•	<u> </u>	_		
Other		<u>x</u>		13) Other	_		<u> </u>	_	
			·						
Comments:									
ADDITIONAL REFE COMMENTS.	RENCING PROC	EDURE; NAF	?-02, REV. 2.	SEE SUPPLI	EMENTAL RE	PORT FOR A	DDITION	AL	
Results: A	cept 🗹 Re	ject 🗌	Eval 🗍		,				
Percent Of Coverage	Obtained > 90%	s: N	/A	Re	viewed Previo	us Data:	Yes		
xaminer Level		Signature	Date	Reviewor	Λ ,	Sig	nature		Da
Komera, Bernard P	7,011		11/27/200			1. De		11/27	
xaminer Level	11	Signaturo	Date	N.	- 1	1. 5 Big	gnature	44.007	Da Mora
Place Mare I	921 9 1			7	Lane I T				1201
Blanc, Marc J.  Other Level	11 11 11	Signature	11/27/200°	<del></del>		e C	nature	11/27	Da



Report No.:	VT-07-138	
		_

Page:

Summary No.: **E8.10.0002** 

Examiner: LeBlanc, Marc J.

Other: Duplechain, Lenus F.

BPIL Examiner: Komara, Bernard P. Level:

MIL

Ш Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Date: {

Date:

Date:

#### Comments:

Permanent flange bolting disassembled and removed except for one (1) assembly at the 6 o'clock position which was left in place to hold the "rolled-out" flange. Permanent flange and one (1) bolting assembly examined in place on 11/11/07. Balance of bolting examined disassembled on 11/23/07.

11

H

Level:

Level:



# Visual Examination of IWE Interfaces (VT-3)

Olla Ollic.	Cha	<u> </u>	<del>,</del>	11000		NDEF-W	<u> </u>	Cutage		HI O 13-11	"-
Summary No.:	:	E8.10.0003		Procedure	Rev.:	2		Report	t No.:	VT-07-1	39
Workscope:		ISI	<del></del>	Work Orde	r No.: _	68104	3	F	Page:		2
ode: ASME 1	1992 Ed. T	hru 92 Ad.	Cat./ite	m: <b>E-G</b> /	E8.10	Location:	E	quipment	t Acces	s Hatch	
rawing No.:	s	-525-003		Description	n: Equi	ment Access	Hatch				
ystem ID: C	Containme	ent									_
omponent ID: P	'EN-222										
mitations: E	XAMINEC	ALL ACCE	SSIBLE A	REAS - EXCE	PT BOL	TING				40	
Resolution: 1	/32" Line				Surf	ace Condition:	As Found				
Visual Equipmen	nt/Aids: Fl	ashlight, 6"	Scale, Ta	pe Measure,	Spotligh	t			_		
nspected From:	In:	side Contain	ment 💿	Outsid	de Conta	nment ()	Во	th ()			
ight Meter Mfg.:	: (	SE Lighting		Serial No.:	0699	) (TI-3375)	Illui	mination:		>200ftc	
Light Verification				, –	1500	/	N/A	Cai Oi	ut 🕼	1630	
Visual Examinati		Direct/Ren				<del></del>			<u> </u>		
eals, Gaskets &					P.	Iting & Bolted	Connecti				
Baip, Geskelb o	r moisture	, Dairieis				place		ssasemble	ed X		
				See	***	piace	- Di	33436111DIG	, A	See	
)	Accept	Reject	N/A C	omments			Accept	Reject	N/A	Comme	
) Wear	v				O) 1				u		
) Damage	<u>x</u>	<u></u>			•	Loose Damage		_	<u>x</u>	_	
) Tear	<u>x</u>	~		_		Cracking		_	<u>x</u>	. –	
) Erosion	<u>x</u>		_	_		Vear		_	<u>x</u>		
) Surface Crack				-		Excessive	_			_	
) Adhesion	<u>x</u>	_	_			Corrosion	-	_	X	_	
) Other		<u>x</u>	_	_	13)	Other	_	_	<u>x</u>		
^			-		<del></del>		<del></del>				
Comments: EXAMINED ALL	L AREAS I	EXCEPT BO	LTING. S	EE SUPPLEM	ENTAL I	REPORT.					
						14					
Results:	Accept	-	ect [	Eval 🔽		NCE # Z					
Percent Of Cove	arage Obta	ined > 90%:		NA		Reviewed F	revious Da	11a: 	Ye	<u> </u>	
xaminer Le	evel	S	ignature	Da	te Revie	wer A	7	Sigr	ature		Da
eBlanc, Marc		Men		11/21/20		ese, PE	0.6			11.22.	• ]
<b>\</b>	evel 11	قررسيد	ignature	Da		Review	(2)	Sign	nature	_	Da
nnett, Charle		1997	me	5 11/21/20		Portmann (	2	(K_	/	11/22	
	evel N/A	S	ignature	Da		Review	Medi	Sign Sign	nature	erle	Di CZ
N/A ·					110m	Wyatt, ANII	girug	De La		14/1/	U



Report No.:	VT	<u>-07-13</u>	139	
Page:	2	a f	2	

Summary No.: E8.10.0003

Examiner: LeBlanc, Marc J.

Level:

Reviewer: Joe Lese, PE

Date:

Examiner: Bennett, Charles T.

Level: 11

Site Review: Rick Portmann

Date: //

Other: NA

Level: N/A

ANII Review: Tom Wyatt, ANII

#### Comments:

Item #1 (Reference Page 1 - Condition 02): SCRAPES AND A DENT (See VT-1 Report VT-07-311)

Item #2 (Reference Page 1 - Condition 7): WELD REMANENTS. (See VT-1 Report VT-07-311).

Item #3 (Reference Page 1 - Condition 7): DISCOLORATION. (See VT-1 Report VT-07-311).

### Inaccessible Areas:

\*LOWER PORTION OF EQUIPMENT HATCH WAS NOT ACCESSIBLE DUE TO FLOOR PLATES.



# Visual Examination of IWE Interfaces (VT-1)

Site/Unit:	<u>CR3</u>		3	Proced	ture: NDEP-	0620	Outage No.: _	RF015-IWE
Summary No.:		E8.10.0003		Procedure F	lev.: 2		Report No.:	VT-07-311
Workscope:		ISI		Work Order	No.: 6810	143	Page:	1 of 4
ode: ASME 1	992 Ed. 1	hru 92 Ad.	Cat./Ite	m: E-G/E	8.10 Location	: E	quipment Acces	s Hatch
awing No.:	•	S-525-003		Description	Equipment Acce	ss Hatch		
stem ID: C	ontainmo	ent						
omponent ID: P	EN-222							
mitations: E	XAMINE	ALL ACC	ESSIBLE A	REAS - EXCE	T BOLTING			
Resolution: 1/	32" Line				Surface Condition	n: As Found	·	,
	VAids: F	lashlight, 6	* Scale, Ta	ape Measure, S	potlight.			
nspected From:	_	side Contair			e Containment ()	Bot	th ()	
Light Meter Mfg.:	. (	3E Lighting	1 .	Serial No.:	0699 (TI-3375)	Hlun	nination:	>200ftc
Light Verification			1400	/	1500 /	N/A	Cal Out 🔽	1630
Visual Examination				<del></del> ·		107	041 041 @	1000
		Direct/Rei	note					
eals, Gaskets &	Moistur	e Barriers		,	Bolting & Bolt			
			•	See	inplace	Di	ssasembled X	See
	Accept	Reject	N/A C	comments		Accept	Reject N/A	Comments
•	•	•				•		
) Wear			<u>x</u>		8) Loose		_ <u>x</u>	
) Damage	_	<u> </u>	_	<u>x</u> .	9) Damage	_	_ <u>x</u>	
l) Tear			<u>x</u>	_	10) Cracking	_	_ <u>x</u>	_
) Erosion	_	_	<u>x</u>	_	11) Wear		_ <u>x</u>	_
) Surface Crack	s _		X	-	12) Excessive		v	
6) Adhesion	. —		X	_	Corrosion	_	_ <u>x</u>	-
) Other	-		X		13) Other		_ <u>x</u>	-
Comments:								
SEE SUPPLEME	NTAL R	EPORT						
•								
Results:	Accept	☐ Rei	ect 🗌	Eval 🙀	Alant	± 75724	7	
Percent Of Cove		_	_	NA		Previous Da		
								<del>-</del>
	vel 11		Signature	-	e Reviewer	00	Signature	Da Da
eBlanc, Marc J Examiner Le	vel ()	pe 2		11/21/200 Dat		- Jan (b. )	Signature	11-55.0
nnett, Charles	• • • • • • • • • • • • • • • • • • • •		ignature	5 11/21/200		771	Signature	11/22/0
	vel NA	The state of the s	ignature	Dat	<del></del>	Art al	Signature	
N/A	Ť			•	Tom Wyatt, ANII		(1)XI)	12/108



Summary No.: E8.10.0003

Other: N/A

Examiner: LeBlanc, Marc J.

Examiner: Bennett, Charles T.

## Supplemental Report

		Report No.:	VT-07-311				
		Page:	2	of <u>4</u>			
Reviewer:	Joe Lese, PE		Date:				
le Review:	Rick Portmann	ail	Date:	11/22/07			

Date: /

#### Comments:

Item #1 (Reference Page 1 - Condition 02): Damage - Scrapes and dent. (See VT-3 Report VT-07-139). VT-1 determined that the top portion of the inner sleeve incurred scrapes and a dent probably due to mechanical impact. Light rust but no wastage corrosion has occurred in the areas identified. The dent is 1/32" deep with no wastage corrosion noted.

Site Review: Rick Portma

ANII Review: Tom Wyatt, ANII

Item #2 (Reference Page 1 - Condition 07): Other - Weld beads. (two (2) locations). (See VT-3 Report VT-07-139). VT-1 determined that the weld beads are approximately 3" L X 1/4" W and were possibly temporary attachment welds which were not removed. No cracking or degradation has occurred in the base metal adjacent to the areas identified.

ttem #3 (Reference Page 1 - Condition 07): Other - Discoloration. (See VT-3 Report VT-07-139). VT-1 determined that the discoloration on the lower area of the equipment hatch is due to previous spillage. No degradation to the coating or base metal was noted.

#### Inaccessible Areas:

•Lower portion of equipment hat not accessible due to floor plates.

MIL

Level:

Level:

Level:

Ħ

N/A



Report No.: VT-07-311 Page:

Summary No.: E8.10.0003

Examiner: LeBianc, Marc J.

Examiner: Bennett, Charles T.

Other: N/A

MJL

Level:

Level:

Level:

N/A

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

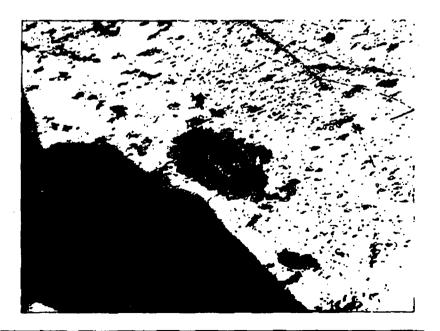
Date:

Comments: PHOTOS ASSOCIATED WITH ITEM # 1 (LEFT) AND ITEM #2 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\\SI IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-

311-1.JPG

L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-311-2.JPG





Report No.: VT-07-311

Page: 4 of 4

Summary No.: E8.10.0003

Examiner: LeBlanc, Marc J. M. J7

Examiner: Bennett, Charles T.

Other: N/A

Level:

Level: N/A

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Date:

Date: 11/22/6-

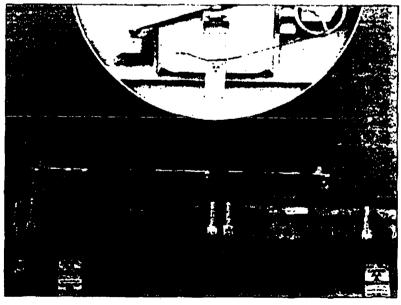
Date: 12/1/07

Comments: PHOTOS ASSOCIATED WITH ITEM # 2 (LEFT) AND ITEM # 3 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\ISI \text{IWE & IWL\Photos\2007 R15 IWE Photos\\T-07-311-3.JPG}



L:\Engineering\Tech Services\\SI IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-311-4.JPG





# Visual Examination of IWE Interfaces (VT-1)

Site/Unit:	CR3 /	3	Procedi	rre: NDEP-0	620 Outage	P No.: RFO15-IWE
Summary No.:	E8.10	.0003	Procedure R	9v.: <u>2</u>	Repor	1 No.: <b>VT-07-339</b>
Workscope:	IS	SI	Work Order I	lo.: 68104	13	Page: <u>1</u> of <u>2</u>
ode: ASME 19	92 Ed. Thru 9	2 Ad. Cat./I	lem: E-G/E8	.10 Location:	Equipmen	t Access Hatch
awing No.:	S-525-	003	Description:	Equipment Acces	s Hatch	
stem ID: Co	ntainment					
	N-222	· · · · · · · · · · · · · · · · · · ·				
mitations: EX	AMINED ALL	BOLTING				
Resolution: 1/3	2" Line			Surface Condition:	CLEANED	
		iht, 6" Scale, 1	Tape Measure, Sp			
nspected From:		ontainment ()		Containment	Both ()	······································
ight Meter Mig.:	GE LIG	hting	Serial No.:	0699 (TI-3375)	Illumination:	>200ttc
ight Verification 7			_	1110 /	 1500 Cal O	ut 🔎 1730
isual Examination		Olrect				
eals, Gaskets & f				Bolting & Bolte	d Connections	
				Inplace	Dissasemble	ed X
			See	_		See
	Accept Re	ect N/A	Comments		Accept Reject	N/A Comments
) Wear		<u> </u>	_	8) Loose		<u>x</u> _
) Damage		<u> </u>		9) Damage		<u>x</u>
) Tear		<u> </u>		10) Cracking		<u>x</u>
) Erosion		<u> </u>		11) Wear		<u>x</u> _
Surface Cracks		<u> </u>	_	12) Excessive		¥
) Adhesion		_ <u>x</u>	_	Corrosion		<u>x</u> _
Other		_ <u>x</u>	· <del></del>	13) Other		<u>x</u>
						· · · · · · · · · · · · · · · · · ·
	ERENCING P	ROCEDURE: I	NAP-02. REV. 2.	SEE SUPPLEMENT	AL REPORT ADDITIO	ONAL COMMENTS
		•				
						•
Results:	Accept 🗹	Reject 🗌	Eval 🔲			
ercent Of Covera	ge Obtained >	90%:	NA	Reviewed	Previous Data:	Yes
xaminer Leve	el <b>\$</b> ]	Signature	Date	Reviewer	Sign	nature La Da
eBlanc, Marc J.	" " ze ,	Z	11/28/2007	Joe Lese, PE	lad sign	1.21.00
xaminer Levi	<del>                                      </del>	Signature	Date		Sign	nature Da
plechain, Lenu		2,l-	11/28/2007	Rick Portmann	Ca ()2	11/29/07
ther Levi	1 11	Signature	Date	ANII Review	Mel. I. I Sign	pature Da
	, H	Som	11/29/2007	Tom Wyatt, ANII		



Page: 2 of 2

Summary No.: E8.10.0003

Examiner: LeBlanc, Marc J. MJC Level: II Reviewer: Joe Lese, PE Date: 1/29/07

Examiner: Duplechain, Lenus F. L. Level: II Site Review: Rick Portmann Date: 1/29/07

Other: Sonnier, Jason B. MS Level: II ANII Review: Tom Wyatt, ANII MI Date: 1/2/1/07

#### Comments:

Item #4 (Reference Page 1 – Condition 13): This report is a continuation of VT-07-311. VT-1 determined twenty-eight (28) locations where cotter pin replacements were needed. There was no degradation to bolting identified at these locations. PEN 222 Bolting and Equipment Hatch/RB Mating Flange Surfaces

#### Comment:

The Equipment Hatch mating flange surface was examined on 11/21/07 while the Equipment Hatch was rolled back for the outage.

Permanent bolting was examined untensioned (unlatched) on 11/27/07 and 11/28/07. Cotter pins at twenty-eight (28) locations were identified for replacement. Replacement cotter pins were examined and provided to the RB Hatch Coordinator for reinstallation at the locations identified.

The RB mating flange for the Equipment Hatch was examined on 11/29/07 prior to reinstallation of the Equipment Hatch. The O-Ring/Gasket seating area was not examined since the existing O-Ring/Gasket was deemed suitable for continued use and not removed.

ght meter checks were as follows: 0100, 0430, 0600, and final at 0800 with measured lumens greater than 200ftc with the same meter utilized on 11/28/2007.



# Visual Examination of IWE Interfaces (VT-1)

Site/Unit:	CR3		3	Proce	odure:	NDEP-0	620	Outage	• No :	RFO15-IWE
Summary No.:		E8.10.0004		Procedure	Rev.:	2		Report	No.:	VT-07-140
Workscope:		ISI		Work Orde	r No.:	68104	13	F	Page:	1 of 2
odo: ASME 1	992 Ed. 1	Thru 92 Ad.	Cat./Ito	em: <b>E-G/</b>	E8.10	Location:		Trans	sfer Tub	e
awing No.:		S-525-004	<del></del>	Description	n: <b>34",</b> 1	— Type VIII, Fue	Transfer 1	ube #2		
stem ID: C	ontainm	ent		•	-					
emponent ID: P	EN-348									
_		MENTS) E	(AMINED	ALL ACCESSI	BLE ARE	AS				
Resolution: 1	/32" Line		<u> </u>		Surfa	ce Condition:	CLEANE	)		
— isual Equipmen/	t/Aids: F	lashlight, 6	* Scale, B	Inoculars, Tap	e Measu	re, Spotlight				<del>-</del>
nspected From:	_	side Contair				nment ()		th O		
.ight Meter Mfg.:		GE Lighting		Serial No.:				nination;		>200ftc
ight Verification			1100	/	NA	/	— NA	Cal Ou		1400
_		_	<del></del>		IVA	<del></del> ′	IVA	_ Cal O	n 🔼 —	
isual Examinati	on:	Direct/Rer	note	•		_	:			
als, Gaskets &	Moistur	e Barriers			Во	iting & Boite	d Connection	ons		
			•		In	place 🗶	Dis	ssasemblo	d X	
	Accept	Reject	N/A C	See Comments		٠	Accept	Reject	N/A	See Comments
	Accept	nejeot		vii iii alis			Accept	110,001		Comments
) Wear			<u>x</u>		8)	.00S <del>0</del>	· <b>X</b>			
) Damago	_	_	<u>x</u>		•	Damage	<u>x</u>		_	_
) Tear	_	<u> </u>	X	<u>-</u>	·	Cracking	×			
) Erosion	_	_	<u>x</u>		11) \	_	$\frac{\overline{x}}{x}$	_		_
Suriaco Crack	s _	_	×		•	Excossive		_	_	_
) Adhesion		_	<u>x</u>	_	•	Corrosion	<u>x</u>	_	_	<del>-</del>
Other	_	_	<u>x</u>	-	13) (	Other	_	<del></del> .	_	<u>x</u>
Comments: ADDITIONAL RE	FEEDENC	1 <b>N</b> G PBAC	ENLIDE M	AD-NO BEV O	SEÉ SIII	DDI EMENTAI	PERMET	EOD ADD	INONAL	COMMENTS
IDDITIONAL AL	TLEUCIAC	and Fhoc	EDONE 14	4F-02, NEV. Z.	SEE SU	PLEMENIA	LNEPUNI	run addı	HONAL	COMMENT
Results:	Accept	☑ Rej	ect 🗌	Eval 🗌						
Percent Of Cove	rago Obta	vined > 90%		NA		Reviewed I	Previous Dat	la: . —	Yes	
xaminer Le	vel III	S	ignature	Dat	te Revio	wer		Sign	ature	Da
Komara, Bernar	***	3.P. Kom	-	11/27/200		ese, PE	La		(WI V	, 11/27/20
	vel II		ignature	Da		Review	<b>5</b>		aturo	Di
Blanc, Marc J		12/1	ge_	11/27/200	7 Rick	Portmann	グト	<u> と                                   </u>		11/27/20
	vel II	S	ignature	Dar		Review	TANKI	W Bign	aturo V	Da
ionnier, Jason i	<b>5</b> . /	ryn a	mur	11/27/200	1/ Tom	Wyatt, ANII	40100	<u>UPU</u>		12/1/07



Report No.:	VT-07-140					
Page:	2	of	2			

Summary No.: E8.10.0004

Examiner: LeBlanc, Marc J.

Other: Sonnier, Jason B.

Examiner: Komara, Bernard P.

BPK Level:

Ш Level: Ħ Reviewer: Joe Lese, PE

Site Review: Rick Portmann

Date: 11/27/2007 Date: 11/27/2007

Level: 11

ANII Review: Tom Wyatt, ANII

Date: /

Comments:

Permanent flange cover and botting initially examined in place under tension prior to removal at start of outage on 11/06/07.

Permanent flange disassembled and removed during outage. Flange cover, sealing surfaces, and bolting examined on 11/27/07.



# **Visual Examination of IWE Interfaces (VT-1)**

Site/Unit:	CR3 /	3	Proced	luro: NDEP-0	0620	Outage No.:	RFO15-IWE	
Summary No.:	E8.10.00	07	Procedure F	lev.: 2		Report No.:	VT-07-143	
Workscope:	!SI		Work Order	No.: 6810	43	Page:	1 of 2	
odo: ASME 199	2 Ed. Thru 92 A	d. Cat./Ite	m: E-G/E	8.10 Location:		Transfer Tu	be	
awing No.:	S-525-005		Description	: 34", Type VIII, Fue	el Transfer T	ube #1	T	
rstem ID: Con	tainment							
omponent ID: PEN	<b>-436</b>		· · ·	-				
nitations: (SE	COMMENTS)	EXAMINED	ALL ACCESSIB	LE AREAS				
Resolution: 1/32	* Line			Surface Condition	CLEANED			
	<del></del>	6" Scale. B	inocuiars. Tape	Measure, Spotlight				
nspected From:	Inside Cont			Containment O		h O		
ight Meter Mfg.:				0699 (TI-3375)		ination:	>200ftc	
.ight Verification Ti			/	NA /	- N/A	Cal Out 🔽	1400	
-			<del></del> ′ <del></del>	<del></del>	145	_ carout 🔊 _	1400	
isual Examination								
als, Gaskets & M	olsture Barriers	3		Boiting & Boite				
			See	Inplace X	Dis	sasemblod X	Saa	
	ccept Reject	NA C	see Comments		Accept	Reject N/A	See Comments	
•	,					•	,	
) Wear		v		8) Loose	•			
) Damage		<u>x</u> <u>x</u>		9) Damage	<u>x</u>			
) Tear		×	_	10) Cracking	<u>x</u>	<del></del>	_	
) Erosi <i>o</i> n		×	<del>_</del>	11) Wear	×	<del></del>		
) Surface Cracks		X	_	12) Excessive	<del>**</del>	_ , _	-	
) Adhesion	_	X	<del></del>	Corresion	<u>x</u>			
Other		<u>x</u>	_	13) Other			<u>x</u>	
- Cutor		<u>~</u>			<del>_</del>			
Comments:				··· <del></del>			·	
DDITIONAL REFI	RENCING PRO	CEDURE NA	AP-02, REV. 2. 9	EE SUPPLEMENTA	L REPORT P	OR ADDITIONA	L COMMENTS	
	•							
	. 🚐 -	<del>_</del>						
Results: A	ccept 🗹 🛭 R	leject 🗌	Eval 🗌					
Percent Of Coverag	e Obtained > 90	<b>%</b> :	NA	Reviewed	Previous Data	a: Yes	<u> </u>	
xaminor Level	<u> </u>	Signature	Date	Reviewer	٨	Signature	Da	
Komara, Bernard F	•••	-	11/27/2007	l .		. 1 7/	11/27/200	
		Signaturo	Date	<del></del>		Signature	Da	
xaminer Level		0.9	Cuit	1011011011		/ Sylvicial or		
Blanc, Marc J.	" M		11/27/2007	1.	KZZ	ひごじ	11/27/200	
	THE.	Signature		Rick Portmann	857	Signature		



Report No.:	VT-07-143				
Page:	2	of	2		

Summary No.: E8.10.0007

BPIL Examiner: Komara, Bernard P.

Other: Sonnier, Jason B.

Level:

Reviewer: Joe Lese, PE

Date: 11/27/2007

MI Examiner: LeBlanc, Marc J.

Level: IJ

Level:

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Date: 11/27/2007

Comments:

Permanent flange cover and bolting initially examined in place under tension prior to removal at start of outage on 11/06/07.

Permanent flange disassembled and removed during outage. Flange cover, sealing surfaces, and bolting examined on 11/27/07.

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## Visual Examination of IWE Surfaces (VT-3)

Site/Unit:	CR3	<u>/</u>	3	Proce	edure:	NDEP-	<b>DEP-0620</b> Outage		utage No.:	ige No.: RFO15-IWE	
Summary No.:	E	1.12.0182		Procedure	Rev.:	2		R	eport No.:	<u>v</u> 1	r-07-088
Workscope:		ISI		Work Orde	er No.:	6810	43		Page:	1	of <u>2</u>
Code: ASME 199	2 Ed. Th	ru 92 Ad.	Cat/Ite	em: E-A/I	E1.12	Location:	: :		RB EL 93'	-o•	
Orawing No.:	S-	525-002		Description	on: Baser	nent Liner E	mbedde	d in 24" (	Concrete		
System ID: MC				•			,				
Component ID: RBI	.P-1001										
<del></del>		UPPLEME	NTAL RE	PORT FOR LI	MITATION		<del></del>				
Resolution: 1/32	* Line				Surfa	ce Condition	: WIPE	D AS NE	EDED		
Visual Equipment/A	ids: Flas	shlight, 6"	Scale, Ta	pe Measure, S	Spotlight.						
Inspected From:		e Containr			de Contair	ment ()		Both ()			
Light Meter Mfg.:	GE	Lighting	_	Serial No.:		(TI-3375)		Illuminat	ion:	> 2	00ftc
· -			1350		N/A	/	 N/A		Cal Out 🗸		1730
Light Verification Ti				′ <del></del>		′	IVA		Jai Oui 🛂		1730
Visual Examination		Direct/Ren		<u> </u>							
			V	ent System Or							
Coated Areas	<b>X</b> .			See	Nor	n-Coated Are	as X				See
	Accept	Reject	N/A	Comments				Accept	Reject	N/A	Comment
_						¢.					
1) Rust			<b>X</b> .		12) Bro	ken Welds	,			X	
2) Flaking	<del>-</del>	_	X	. <del>-</del>	•	ging of Liner	•	<del>.</del>	<del></del>	X	_
3) Blistering	_		X	_	14) Pitt			_		$\overline{\mathbf{x}}$	_
4) Peeling		_	X		15) Exc	essive Corro	sion	_		<u>x</u>	_
5) Chipping			<b>X</b>		16) We	ar		_	_	X	_
6) Wear			X.		17) AR	C Strikes	•	_		<u>X</u> .	
7) Checking			<b>.X</b> .		18) Der	nts .			_	X	
8) Cracking			<b>X</b> .		•	face Discont	inulties	, <del></del>		X	_
9) Gouges			X		20) Oth	<b>6</b> 1				_	X
10) Discoloration		<del></del>	<u>X</u>								
11) Other	_	_		X							
Comments: ADDITIONAL REF SUPPLEMENTAL Results:		FOR ADD			NO CHA	NGES NOTE	D FROM	I PREVIO	US DATA.	SEE	
Percent Of Coverage	ge Obtain	ed > 90%:	<del></del>	NA		Reviewed	Previous	Data:	Ye	98	<del>_</del> .
Examiner Leve	1111		ignature	D:	ate Revio	wer			Signature		Date
Komara, Bernard			Somar			ese, PE	<u>U</u>	کے ۔0 ،	2 million		11.25.0
	N/A		ignature		ate Site R		O		Signature		Pate
N/A	<u> </u>					ortmann	8	<u> </u>			11/26/67
	N/A	S	ignature	Da	ate ANII F		5	of Kal	Signature		12/1/07
N/A					l low /	Wyatt, ANII		10 CUT	$\underline{w}$		MILLER



Report No.:	VT-07-088					
Page:	2	of	2			

Summary No.:	E1.12.0182				•	. 1	
Examiner:	Komara, Bernard P. BPIC	Level:	111	Reviewer:	Joe Lese, PE	- Rose	Date: 1.25.67
Examiner:	N/A	Level:	N/A	Site Review:	Rick Portmann	JRIY.	Date: 1/24/0
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	7741	Date: 12/1/07

Comments:

### **Not Accessible**

Inaccessible Areas: (Comments for RBLP-1001)

•The base containment liner plate is covered by a two foot (2') thick concrete slab and therefore is inaccessible for VT-3/VT-1 Examination.

Accessible Areas: (Comments for RBLP-1001)

•The accessible concrete surface areas, construction joints, and other slab penetrating mediums were examined for evidence of base plate degradation. None was noted.



# Visual Examination of IWE Surfaces (VT-3)

Site/Unit:	CR3 /	3	Procedu	re: NDEP-0	620	Outage No.:	RF	015-IWE
Summary No.:	E1.12.01	156	Procedure Re	ev.:2		Report No.:	: <b>v</b> 1	T-07-065
Workscope:	ISI		Work Order N	lo.: 68104	13	Page:	1	of 2
Code: ASME 199	2 Ed. Thru 92 /	ld. Cat./iter	n: <b>E-A/E1.</b> 1	12 Location:	<del></del>	RB-95'-1	19'	
Orawing No.:	S-525-00	2	Description:	RB Wall Liner Plat	te - 0° to 90	•		
System ID: MC			•	·				
Component ID: RBL	.P-1002							
	MNED ALL AC	CESSIBLE AR	EAS					
Resolution: 1/32	`Line	-		Surface Condition:	: As Foun	ıd		
Visual Equipment/A	ids: Flashlight,	6" Scale, Bin	oculars, Tape M	leasure, Spotlight.				
Inspected From:	Inside Conta			Containment ()		oth ()		
Light Meter Mfg.:	GE Lighti	ng S	Serial No.:	0699 (TI-3375)	NJ	umination:	> 2	00ftc
Light Verification Tir	nes: Cal In 🗹	1350	. ,	1600 /	NA NA	Cal Out 😿	4	
Visual Examination:	_	Remote						
Visual Examination.			nt Svetem Or Co	ontainment Surface				
Control Aroun	U	461	n System Of G	Non-Coated Area				• '
Coated Areas	X		See	rion obalogriio				See
	Accept Rejec	t N/A C	omments		A	ccept Reject	ŇA	Comments
		•						
1) Rust	_ X			2) Broken Welds		<del>-</del>	X	_
2) Flaking	<u>x</u> _	_	<del></del>	3) Bulging of Liner		<u> </u>	X	
3) Blistering	<u>x</u> –	_		4) Pitting		- <b>-</b>	X	_
4) Peeling		_		5) Excessive Corros	sion		X	_
5) Chipping	_ X	<del>-</del> .		6) Wear		_ X	_	
6) Wear	_ X	<del>-</del>	_	7) ARC Strikes			X	
7) Checking	— . —	<b>X</b>	<b>—</b> .	8) Dents	,	<del>-</del>	X	. —
8) Cracking	<b>—</b> —	<u>X</u> .	_	9) Surface Discontin	nuities	_ <u>x</u>		-
9) Gouges		<b>X</b> .	2	(0) Other		_ X	_	
10) Discoloration		X			,	·		
11) Other	_ X	<del></del>						
Comments:								
				ditional referencing		re; NAP-02, Rev.	. The fo	gniwolk
•	•	conations wei Reject ["]	re note <b>o, See</b> Si Eval 🕢	upplemental Repor	••	:3440		
Percent Of Coverage			WA		* 257 Previous D		es	
reicent Of Coverag	Pe Corguence > 20	, , , , , ,	¥^	Naviewe0	TOTIOUS D		<del>43</del>	
Examiner Leve		Signature		Reviewer	1	Signature		Date
Komara, Bernard F		man	11/5/2007		- Ja (	· 0/2		11.4.0)
Examiner Leve Blanc, Marc J.	1 9 1	Signature	Date 11/5/2007	Site Review Rick Portmann	X	Signature	<b>'</b>	Date
	N/A	Signature		ANII Review	- 1/2 //	Signature	b—	Date
N/A	· 127	g		Tom Wyatt, ANII	OND D	Louis	,	12/1/07
·			<del></del>	<u> </u>	<del></del>	<del></del>		



Report No.:	VT-07-065				
Page	2	of	2		

Summary No.: E1.12.0156

Examiner: Komara, Bernard P. RPIC

Level: m Reviewer: Joe Lese, PE

Date:

Examiner: LeBlanc, Marc J.

Level: II

NA

Site Review: Rick Portmann

Other: N/A

Level:

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

Penetrations associated with Plate: PEN-109, PEN-115, PEN-117, PEN-118, PEN-119, PEN-120, PEN-123, PEN-124 Liners associated with Plate: RBLN-1001, RBLN-1002, RBLN-1003, RBLN-1004, RBLN-1005, RBLN-1006, RBLN-1007, RBLN-1008, RBLN-1009, RBLN-1010, RBLN-1011, RBLN-1012, RBLN-1013, RBLN-1014, RBLN-1015, RBLN-1016, RBLN-1151, RBLN-1173, RBLN-1174.

Item #1 (Reference Page 1 - Condition 01, 05, 06, 16): Rust, chipping, wear. (See VT-1 Report 07-166)

Item #2 (Reference Page 1 - Condition 11, 20): Other. (See VT-1 Report 07-166)

Item #3 (Reference Page 1 - Condition 19): Surface discontinuities. (See VT-1 Report 07-166)

- •Approximate Azimuth 5 15 Degrees: Area behind Elevator shaft outside parameters for VT-3/VT-1.
- •Approximate Azimuth 55 75 Degrees: Area behind HVAC duct work outside parameters for VT-3/VT-1.



# **Visual Examination of IWE Surfaces (VT-1)**

Site/Unit:	CR3	1	3	Proce	edure:	NDEP-06	20	_ 0	utage No.:	.: RFO15-IWE		
Summary No.:	E	1.12.105	5	Procedure	Rev.:	2		R	eport No.:		T-07-166	
Workscope:		ISI		Work Orde	r No.:	681043	3	<u> </u>	Page:	1	of <u>2</u>	
Code: ASME 199	2 Ed. Th	ru 92 Ad	. Cat./	Item: E-A/E	£1.11	Location:			RB-95'-11	9'		
Drawing No.:	S-	525-002		Description	on: RB Wall	Liner Plate	- 0° to	90°				
System ID: MC				<del>-</del>								
Component ID: RBI	.P-1002					<del></del>						
<del></del>		ALL ACC	CESSIBL	E AREAS								
Resolution: 1/32	" Line				Surface	Condition:	As Fol	ınd			-	
Visual Equipment/A	ids: Flas	ihlight, 6	" Scale, I	Binoculars, Tap								
Inspected From:	Insid	e Contair	nment 🔘	Outsi	de Containm	ent ()		Both ()				
Light Meter Mfg.:	GE	Lighting	1	Serial No.:	0699 (T	1-3375)		Illuminat	ion:	> 2	200ftc	
Light Verification Ti			139		1600	<u>,                                     </u>	 N/A	VA Cal Out ☑			1730	
·		_		<del>~</del>		_ '		`				
Visual Examination		Direct/Re										
			· V	Vent System Or								
Coated Areas	X			See	Non-C	Coated Area	S X				See	
	Accept	Reject	N/A	Comments				Accept	Reject	N/A	Comments	
1) Rust	_	_		. <b>X</b> .	12) Broke	n Welds				X	_	
2) Flaking			X	·	13) Bulgir	ng of Liner			·	X		
3) Blistering			<b>X</b> .		14) Pitting	3			_	X		
4) Peeling	_	<del>-</del>	X	·	15) Exces	ssive Corros	ion		_	X		
5) Chipping	_		_	<b>X</b> .	16) Wear					_	X	
6) Wear	_		_	X	17) ARC			_		X	_	
7) Checking	_		X		18) Dents			_	<del></del>	X	<b>—</b> .	
8) Cracking			<b>X</b> .	_	·	ce Discontin	uities	_	_		<u>X</u>	
9) Gouges	_		<u>X</u>		20) Other			_	_	_	X	
10) Discoloration			X	_								
11) Other				<u> </u>							<del></del>	
Comments: SEE CONTINUATI	ON SHEI	ET			•							
			ningt [	Fuel F							,	
Results:	Accept [		eject 🗀	Eval 🐼		uca *						
			۲.	N/A		Reviewed F	revious	Data:	Y	<b>e\$</b>	_	
Percent Of Covera	ge Obtair	180. > 907	· <u> </u>									
Examiner Lev	el en		Signature	D	ate Reviewe	er A			Signature		Date	
Examiner Lew Komara, Bernard	el (() P. /	3.P. JU	Signature	D. 11/5/20	Joe Les	e, PE	- Q.	Se			11.14.0	
Examiner Lew Komara, Bernard Examiner Lew	el (() P. /	3.P. JU	Signature	11/5/20	NO7 Joe Les ate Site Rev	se, PE view	a.,	de.	Signature		11.14.0	
Examiner Lew Komara, Bernard Examiner Lew Blanc, Marc J.	el (() P. /	3.P. JU	Signature	D. 11/5/20	007 Joe Les ate Site Rev	se, PE view ortmann	0.0	de L			Date 11   72   6 Date 11   72   6	



Report No.:	VT-07-166					
Page	2	of	2			

Summary No.: E1.12.1056

Examiner: Komara, Bernard P. Level:

Reviewer: Joe Lese, PE

ANII Review: Tom Wyatt, ANII

Rick Portmann

Examiner: LeBlanc, Marc J. Other: N/A

Site Review:

**(11** 

11

NA

Level:

Level:

Date:

Comments:

AZ: 0 - 90

Item #1 (Reference Page 1 - Condition 01, 05, 06, 16): Approximate Elevation 95' - 119'. Approximate Azimuth 0 - 90 Degrees. Multiple areas of rust. (See VT-3 Report 07-065). VT-1 determined that wastage corrosion has not occurred in the areas Identified. The rust is a result of failure of the liner coating primarily due to mechanical impact (chipping) and abrasion (wear). Most areas are 1/2" - 2" in area or diameter.

Item #2 (Reference Page 1 - Condition 11, 20): Approximate Elevation 115'. Approximate Azimuth 90 Degrees. Other - survey markers on liner (multiple locations). (See VT-3 Report 07-065). VT-1 determined that degradation has not occurred adjacent to the areas identified. Markers vary in size and diameter.

Item #3 (Reference Page 1 - Condition 19): Approximate Elevation 119'. Approximate Azimuth 90 Degrees. Surface Discontinuities - distortion of liner plate at intersection of three (3) seam welds under penetration 107. (See VT-3 Report 07-065), VT-1 determined that distortion may be due to construction plate alignment and welding. Area is approximately 3' L. No degradation such as rust or pronounced bulging of the liner was noted.



# Visual Examination of IWE Surfaces (VT-3)

Site/Unit:	CR3	/ 3		Procedu	re: NDEP-	NDEP-0620		Outage No.:		RFO15-IWE	
Summary No.:	E	1.12.0157		Procedure Re	v.: <u> </u>		P	leport No.:	<u></u>	r-07-066	
Workscope:		ISI		Work Order N	o.: 6810	43		Page:	1_	of <u>2</u>	
Code: ASME 19	92 Ed. Th	ıru 92 Ad.	Cat/Item:	E-A/E1.1	2 Location:			RB-119'-1	<b>60</b> '		
Drawing No.:	Ş-	525-002		Description:	RB Wall Liner Pla	te - 0° to	90*				
System ID: MC	;		<del></del>								
Component ID: RE	LP-1003										
		ALL ACCESS	IBLE ARE	AS		•					
Resolution: 1/3	2" Line		=======================================		Surface Condition	: As Fo	und				
Visual Equipment		shlight, 6" Sc	ale. Binoc								
Inspected From:		le Containmer			Containment ()		Both ()				
Light Meter Mfg.:		Lighting	_	rial No.:	0699 (TI-3375)		Illuminat	ion:	> 2	00ftc	
•			1245		1530	 N/A				1800	
Light Verilication T				<del>_</del> ′	1330 /	IWA	<del></del> `	Cal Out 🕢		1000	
Visual Examination	1: 	Direct/Remot	<u>e</u>								
			Vent	System Or Co	ntainment Surface	es					
Coated Areas	<b>X</b> .			See	Non-Coated Are	as X		•		See	
	Accept	Reject N		oee nments			Accept	Reject	N/A	Comments	
_											
1) Rust		v		1	2) Broken Welds		v				
2) Flaking		<u> </u>		_	<ol> <li>Bulging of Liner</li> </ol>		X	$\overline{\mathbf{x}}$	_	_	
3) Blistering	$\overline{\mathbf{x}}$	<b>A</b> -	_	<del></del>	4) Pitting		<u>x</u>	<b>A</b>	_	_	
4) Peeling	<b>A</b>	<u></u>		_	5) Excessive Corro	sion	X	_	_	_	
5) Chipping		<u>X</u> _		_	6) Wear			<u></u>	_	_	
6) Wear	_	<u>X</u> _	<del></del>		7) ARC Strikes		X		_	_	
7) Checking	<u>x</u>		_	_	8) Dents		X	_	_		
8) Cracking	<u>x</u>		<del></del>	_ 1	9) Surface Discont	inuities	X			_	
9) Gouges	X		<u>-</u>	a	0) Other		_	_	$\overline{\mathbf{x}}$	_	
10) Discoloration	-	X		_				_			
11) Other	_		X.	_							
Comments:						<u>.                                      </u>					
	FERENCII	NG PROCEDU	JRE; NAP	02, REV. 2. TI	IE FOLLOWING CI	HANGES	TO PRE	VIOUSLY I	DENT	IFIED	
CONDITIONS NO	•					•					
Results:	Accept [	] Reject	LI	Eval 🙀	<u>arr</u>						
Percent Of Covera	age Obtair	ned > 90%:	N/	A	Reviewed	Previous	s Data:	Y	)\$ 		
Examiner Lev	el III	Sign	ature	Date	Reviewer		Λ.	Signature		Date	
Komara, Bernard			nau	11/11/2007	Joe Lese, PE		40.0	<u> </u>		1.55.07	
	el N/A	Sign	ature	Date		X	カー	Signature		/ Date	
A Louis	to	Cian	aturo	Coto	ANII Routon		100 c	L //C	4—	11/22/07	
N/A Lev	rel N/A	sign	ature	Date	ANII Review Tom Wyatt, ANII	7	alklik	Signature	/	Date	
1.00					17 yau,		WWILL.	$\nu$ $\vee$		15/1/0	



Report No.:	VT-07-066				
Page.	2	of	2		

Summary No.:	E1.12.0157						
Examiner:	Komara, Bernard P. BPIC	Level:	- 111 _	Reviewer:	Joe Lese, PE	bes _	Date: 1/-27 .07
Examiner:	N/A	Level:	N/A	Site Review:	Rick Portmann	DIP	Date:/27 /67
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	<b>3</b>	Date: 2/1/01

#### Comments:

Penetrations associated with Plate: PEN-101, PEN-102, PEN-103, PEN-104, PEN-105, PEN-106, PEN-107, PEN-108, PEN-110, PEN-111, PEN-112, PEN-113, PEN-113, PEN-114, PEN-124, PEN-125, PEN-126, PEN-126, PEN-128, PEN-129, PEN-130, PEN-131, PEN-132, PEN-133, PEN-134, PEN-135, PEN-136

Liners associated with Plate: RBLN-1017, RBLN-1018, RBLN-1019, RBLN-1020, RBLN-1021, RBLN-1022, RBLN-1023, RBLN-1024, RBLN-1025, RBLN-1026, RBLN-1027, RBLN-1028, RBLN-1029, RBLN-1030, RBLN-1031, RBLN-1032, RBLN-1033, RBLN-1034, RBLN-1035, RBLN-1036, RBLN-1037, RBLN-1038, RBLN-1039, RBLN-1040, RBLN-1041, RBLN-1042, RBLN-1043, RBLN-1044, RBLN-1155, RBLN-1156, RBLN-1157, RBLN-1158, RBLN-1159, RBLN-1160, RBLN-1161, RBLN-1167, RBLN-1168, RBLN-1169, RBLN-1170, RBLN-1171, RBLN-1172, RBLN-1175

Item #1 (Reference Page 1 - Condition 10): Discoloration. (See VT-1 Report VT-07-306)

Item #2 (Reference Page 1 - Condition 13). Bulging of liner. (See VT-1 Report VT-07-306)

Item #3 (Reference Page 1 - Condition 13). Bulging of liner. (See VT-1 Report VT-07-306)

Item #4 (Reference Page 1 - Condition 13). Bulging of liner. (See VT-1 Report VT-07-306)

m #5 (Reference Page 1 – Condition 04). Peeling of Paint. (See VT-1 Report VT-07-306)

Item #6 (Reference Page 1 - Condition 01, 05, 06, 16): Multiple areas of rust. (See VT-1 Report VT-07-306).

Item #7 (Reference Page 1 - Condition 02). Flaking of paint. (See VT-1 Report VT-07-306)

#### Inaccessible Areas:

- •Approximate Azimuth 55 60 Degrees, from Elevation 119' 160': Area behind HVAC duct work outside parameters for VT-
- •Approximate Azimuth 65 70 Degrees, from Elevation 119' 160': Area behind HVAC duct work outside parameters for VT-3/VT-1.



# Visual Examination of IWE Surfaces (VT-1)

Workscope:   ISI	Site/Unit:	CR3		<u>,                                    </u>	•	oceante: —	NDEP-	0020		utage No.:	nr	015-IWE
Component ID:   S-525-002   Description: RB Wall Liner Plate - 0* to 90*	Summary No.:	E1	1.12.0157		Procedu	ure Rev.: _	2	:	F	leport No.:	V	r-07-306
rawing No.: S-525-002 Description: RB Wall Liner Plate - 0* to 90*  ystem ID: MC omponent ID: RBLP-1003 mitations: EXAMINED ALL ACCESSIBLE AREAS  Resolution: 1/32* Une Surface Condition: As Found  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight.  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight,  //isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight,	Workscope:		ISI		Work O	rder No.:	6810	43		Page:	1	of 7
Stem ID: MC   STEEL	de: ASME 199/	2 Ed. Thi	ru 92 Ad.	_ Cat./	Item: E-	A/E1.12	Location	:		RB-119'-1	50'	
mitations: EXAMINED ALL ACCESSIBLE AREAS  Resolution: 1/32* Line	awing No.:	S-5	25-002		Descrip	ption: RB W	/all Liner Pla	ite - 0° to	90°			
Surface Condition:   1/32" Line   Surface Condition:   As Found	stem ID: MC				_			<u> </u>				
Surface Condition:   1/32" Line   Surface Condition:   As Found	mponent ID: RBL	P-1003							-			,
/isual Equipment/Aids: Flashlight, 6* Scale, Binoculars, Tape Measure, Spotlight. //ispected From: Inside Containment	nitations: EXA	MINED A	ILL ACCE	SSIBLE	AREAS							
Inside Containment O Outside Containment O Both Outside Containment Outside Containm	esolution: 1/32	Line				Surf	ace Condition	n: As Fo	und			
Serial No.:	isual Equipment/Air	ds: Flas	hlight, 6°	Scale, f	Binoculars, T	ape Measu	re, Spotlight					
180	spected From:	Inside	B Containn	nent 📵	Ou	tside Conta	inment ()		Both ()			
Vent System Or Containment Surfaces	ight Meter Mfg.:	GE	Lighting		Serial No.:	0699	) (TI-3375)		Illumina	tion:	> 2	00ftc
Vent System Or Containment Surfaces	ight Ventication Tim	183: Ca	ıl in ivi	124	15 /	1530	,	N/A		Cal Out 🖾		1800
Vent System Or Containment Surfaces	_											
Non-Coated Areas   X   See   Accept   Reject   N/A   Comments   Accept   Reject   Accept   Reject   Eval   Accept   Reject   Signature   Si	maa Caamilauuli.		eve nell		-	Or Comtain						···
See   Accept Reject N/A Comments   Accept Reject N/A Comments		•			vent System							
1) Rust	Coated Areas	X			See	146	m-Coaled An	38S <u>X</u>				See
2) Flaking X		Accept	Reject	N/A	Comments				Accept	Reject	N/A	Commi
2) Flaking		•										
2) Flaking	1) Rust		_	_	<b>x</b>	12) Br	oken Welds			_	ж.	
A) Peeling	2) Flaking		_	_		13) Bu	liging of Liner	r	_		_	X
5) Chipping X 16) Wear Signature X 16) Wear X 17) ARC Strikes X 17) Checking X 18) Dents X 18) Dents X 18) Cracking X 19) Surface Discontinuities X 19) Gauges X 20) Other X 10) Discoloration X 10) Discoloration X 11) Other X 11) Other X 11) Cher X	3) Blistering	_	_	X	_	14) Pit	ting		_	·	X	
6) Wear	4) Peeling				X	15) Ex	cessive Corre	osion			X	_
7) Checking X 18) Dents X 8) Cracking X 19) Surface Discontinuities X 9) Gouges X 20) Other X 10) Discoloration X 11) Other X  Comments: SEE SUPPLEMENTAL REPORT  Results: Accept Reject Eval V NCC 257742  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature	5) Chipping	_			X	•					_	X
8) Cracking X 19) Surface Discontinuities X 9) Gauges X 20) Other X 10) Discoloration X 11) Other X  Comments: SEE SUPPLEMENTAL REPORT  Results: Accept Reject Eval V NCC 257 242  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer Signature	·		_	-	X	•			. <del>-</del>			
9) Gauges		_					•			<del></del> .		
10) Discoloration	•	_	_		_	•		tinuities	_	_		_
Comments: SEE SUPPLEMENTAL REPORT  Results: Accept   Reject   Eval   NCR # 257742  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level    Signature Date Reviewer A Signature		_	_	X		20) Ot	her		_	_	X	<u> </u>
Comments: SEE SUPPLEMENTAL REPORT  Results: Accept   Reject   Eval   NCR # 257742  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level    Signature Date Reviewer A Signature	•	_	, —	_	.X.							
Results: Accept Reject Eval V NCR 257742  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer A Signature	(1) Other			<u> </u>							-	
Results: Accept Reject Eval V NCR 257242  Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer A Signature	,		-077									
Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer A Signature	EC SUPPLEMENT	AL HEP	URI			•				*		
Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level III Signature Date Reviewer A Signature	Results: A	ccept 🗌	) Reje	ect 📋	Eval 🗸	_	NCR!	¥ 257	242			
	ercent Of Coverag	e Obtain	ed > 90%:		N/A	. –				Y	s	
	xaminer Level	111	s	ignature	)	Date Revi	ewer		7	Signature		C
Komara, Bernard P. B.P. Komana 11/11/2007 Joe Lese, PE								1	1 1			11-23.
Examiner Level N/A Signature Date Site Review Signature					)			7	フ、	Signature		
Rick Portmann 11/2	<b>W</b> A					Rick	Portmann		<del>ر</del> م	<u> </u>		11/23/0
Other Level N/A Signature Date ANII Review Signature N/A Tom Wyatt, ANII										/		, 0



						Report No.:		07-306	_
						Page:	2	of 7	_
ummary No.:	E1.12.0157								
Examiner:	Komara, Bernard P. 130	Level:	101	Reviewer:	Joe Lese, PE		Date:		
Examiner	N/A	Level:	NA	Site Review:	Rick Portmenn	218	Date:	11/27/0	- 2
Other:	NA	Level:	N/A	ANII Review:	Tom Wyatt, ANII	TIM		12/1/07	_
								_'. '	

### Comments:

ttem #1 (Reference Page 1 -- Condition 10): Approximate Elevation 119' -- 124'. Approximate Azimuth 20 Degrees. Discoloration. (See VT-3 Report VT-07-066). VT-1 determined that degradation to the liner or coating has not occurred in the area identified. Discoloration appears to be due to previous spillage of oil and splashing of grout/cement.

RE: Photo L:\Engineering\Tech Services\Si IWE & IWL\Photo\2007 R15 IWE Photo\ VT-07-306-1.jpg, VT-07-306-2.jpg & VT-07-306-3.jpg.

ttem #2 (Reference Page 1 – Condition 13). Approximate Elevation 152'. Approximate Azimuth 75 Degrees. Bulging of liner. (See VT-3 Report 07-066). VT-1 determined that dimensions of bulge areas are as follows:

- a) 12" L X 12" W
- b) 12" L X 12" W
- c) 12" L X 12" W

No degradation such as rust or deterioration of the liner was noted.

Item #3 (Reference Page 1 – Condition 13). Approximate Elevation 140'. Approximate Azimuth 80 Degrees. Bulging of liner. (See VT-3 Report VT-07-066). VT-1 determined that dimensions of bulge areas are as follows:

- a) 12" L X 12" W
- b) 36" L X 12" W
- c) 24" L X 12" W

No degradation such as rust or deterioration of the liner was noted. "Tap Tests" of the bulged areas resulted in a hollow bund indicating a gap exists between the liner and concrete.

RE: Photo L:\Engineering\Tech Services\ISI IWE & IWL\Photo\2007 R15 IWE Photo\ VT-07-306-4.jpg, VT-07-306-5.jpg, VT-07-306-6.jpg & VT-07-306-7.jpg DSC01379, 01380, 01381, 01382.jpg.

Item #4 (Reference Page 1 – Condition 13). Approximate Elevation 155'. Approximate Azimuth 85 Degrees. Bulging of liner. (See VT-3 Report VT-07-066). VT-1 determined that dimensions of bulge areas are as follows:

- a) 12" L X 12" W
- ы) 12" L X 12" W
- c) 12" L X 12" W

No degradation such as rust or deterioration of the liner was noted.

Item #5 (Reference Page 1 – Condition 04). Approximate Elevation 120'. Approximate Azimuth 90 Degrees. Peeling of paint. (See VT-3 Report VT-07-066). VT-1 determined that the top coat was separating due to application of paint over a 3-4" diameter survey marker. The primer is still adhering to the liner. No degradation such as rust or deterioration of the liner was noted. Item #6 (Reference Page 1 – Condition 01, 05, 06, 16): Approximate Elevation 119' – 160'. Approximate Azimuth 0 – 90 Degrees. Multiple areas of rust. (See VT-3 Report VT-07-066). VT-1 determined that wastage corrosion has not occurred in the areas identified. The rust is a result of failure of the liner coating primarily due to mechanical impact (chipping) and abrasion (wear). Most areas are 1/2" – <2" in area or diameter.

Item #7 (Reference Page 1 – Condition 02). Approximate Elevation 120 - 125'. Approximate Azimuth 0 - 90 Degrees. Flaking of paint. (See VT-3 Report VT-07-066). VT-1 determined that coatings on the faces of the following penetrations have deteriorated and light to medium rust has developed. Wastage corrosion has not occurred in the areas identified. Deterioration of the coating is most likely due to heat from the process piping.

- a) Penetration: 105 Elevation: 123' Azimuth: 38 Degrees
- b) Penetration: 106 Elevation: 123' Azimuth: 45 Degrees
- c) Penetration: 121 Elevation: 133' Azimuth; 30 Degrees
- d) Penetration: 122 Elevation: 133' Azimuth: 32 Degrees
- e) Penetration: 107 Elevation: 123' Azimuth: 90 Degrees
- f) Penetration: 108 Elevation: 123' Azimuth: 80 Degrees

SEE SHEET 7 OF 7 FOR UT OF BULGES FOR ITEM #3, AREAS 3a, 3b & 3c.



Report No.: VT-07-306 Page:

Summary No.: E1.12.0157

BPIC Examiner: Komara, Bernard P.

Level:

N/A

Reviewer: Joe Lese, PE

Date:

Examiner: N/A

Level:

Site Review: Rick Portmann

Other: N/A

Level:

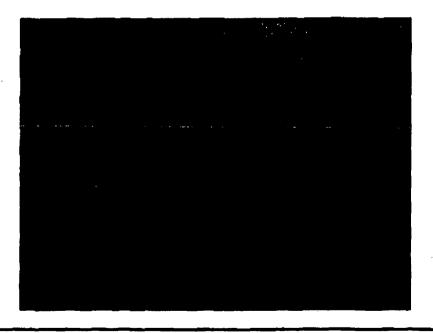
ANII Review: Tom Wyatt, ANII

Comments: PHOTOS ASSOCIATED WITH ITEM # 1

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-

306-1.jpg

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Report No.: VT-07-306 Page:

Summary No.: E1.12.0157

Examiner: Komara, Bernard P.

Level: m

Level:

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

Date:

Examiner: N/A

Other: N/A

N/A Level:

N/A

ANII Review: Tom Wyatt, ANII

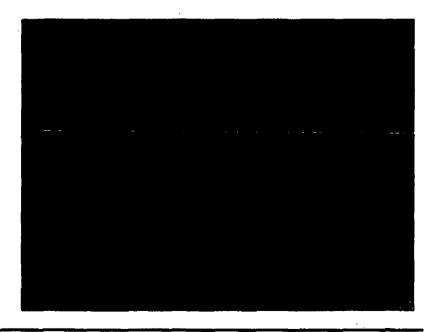
Comments: PHOTOS ASSOCIATED WITH ITEM # 1 (LEFT) AND ITEM # 3 (RIGHT)

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-

306-3.jpg



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Report No.: VT-07-306

Summary No.: E1.12.0157

Examiner: Komara, Bernard P.

Level:

Reviewer: Joe Lese, PE

Date:

Examiner: N/A

NA Level:

Site Review: Rick Portmann

Date: ///2.7/07

Other: N/A

Level:

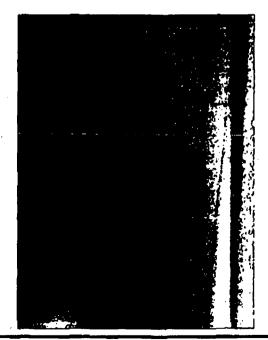
N/A

ANII Review: Tom Wyatt, ANII

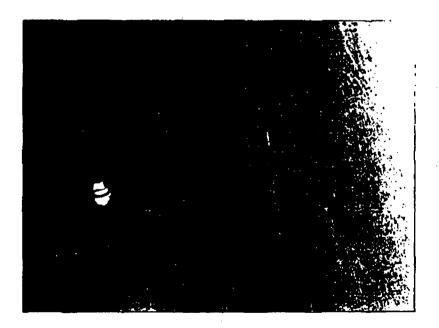
Comments: PHOTOS ASSOCIATED WITH ITEM #3

Sketch or Photo: L:\Engineering\Tech Services\ISt IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-

306-5.jpg



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Report No.:

VT-07-306

Page:

mmary No.: E1,12.0157

BPK Examiner: Komara, Bernard P.

Level:

Reviewer: Joe Lese, PE

ANII Review: Tom Wyatt, ANII

Examiner: N/A

Level: N/A Level: N/A

Site Review: Rick Portmann

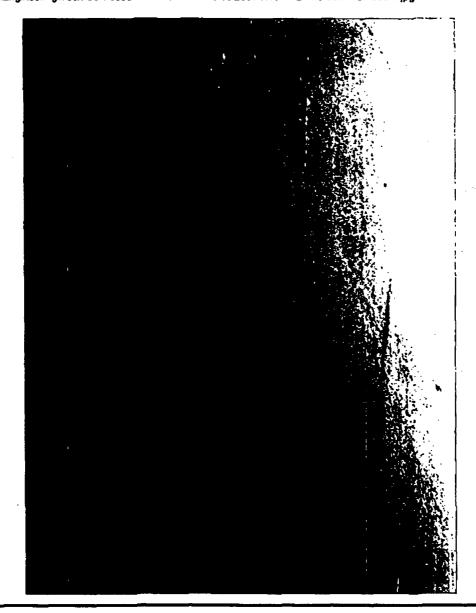
Date: 11/23

Other: N/A

Comments: PHOTOS ASSOCIATED WITH ITEM # 3

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Report No.:		-07-3	06
Page:	7	of	7

mmary No.:	E1.12.0157		
-		 	

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QA UT-8 Rev 7

	Progress	Energy
~		



20 1103.00	J 23,			NOE Report # 2007-0142
оюл	AL ULTRASONIO	BICKNESS NDE REI	PORT	Page <u>1</u> of _1.
Plant 1 BNP MCR3 1 HNP 1 RNP	WO:68/0/3	_Unit [] 1 [] 2 \$30	ale. 11/22/0	7
Component / Item Tostod: Containment Lin	ver clockwiste of hato	<del></del>	NDE Proced	
3a, 3	10, 3c	_	}	Rev 7 TR. NA
Component Material:		Expected		TO IT INC 182
□ C/S SA-108    □ S/S N/A    □ Other (S	pecify): <u>N</u>		「Range: 』	-1 00°
Thickness Gauge:			Couplant:	
Mfg.: Panametrics Model 36 Dt. Phus S/N:	002211211_Software	Rev. No 2 07/1 20N	Brand: Sons	xtoch Batch No., 06120E
	t Item Nac /Caliper N		Primary Cat	Thickness: 1°-1 00°
Step Block S/N: QC1118 🔀 C/S	S/S D Other	(Describe Below)	Cal. Chack	Thickness 1'-1.00"
Transducer:				
Mig: Panametrics Model: 0-791-RM S	VN. 10062237	Diametor: 314 * Freq	: 5 MHz	☐ Single ☑ Dual
Component Conditions:	Inst Receiver Gair			Conditions: N/A
High Temp: ☐ Yes 🔯 No		gie Echo 🖾 Thru-Cont	7-10 mils a	St.1 costing on timer plate
Coated / Puinted. M Yes . No	I	tiple-Echo	Pant	OFTOODE CTIBLY
Sketch component or dem and area tested.	L			-20 424-0
Varied gain to 80% Full Screen Hoight. UT d 3A, 38 and 3C. Bulge area was identified, b	lone through paint. R	tequested by engineering to		• •
NOTE: APPROXIMATE ELEVATIO		•	<b>-</b>	
# BULGE AREA 3A 12.24 X 12'	BULGE AREA 3	<b>VB</b>	BULGE AR 24° X 12°	EA3C
370- 371.	371. 371.	· ·	369 33	HHV-IC
349 370"	3701 3701		318 34	
			KING AT L	
Inspector Kevin M. Kenyon		Certification Level 1 Ltd	A-Scan	Dasie 11/22/07
Inspector N/A		Certification Level N/A		Date N/A
Reviewed By (V Required)	, 	Re/a/nee 1	ech-(	N/28/65



# Visual Examination of IWE Surfaces (VT-3)

Site/Unit: _	CR3	<u> </u>	3	Proce	eaure:	NDEPA	0620		utage No.:	Hr	O15-14	<u>/Ł</u>
Summary No.:	E	1.12.0158	,	Procedure	Rev.:	2		R	eport No.:		<b>r</b> -07-06	7
Workscope:		ISI		Work Orde	r No.:	6810	43		Page:	1	of _	2
Code: ASME 199	2 Ed. Thi	ru 92 Ad.	Cat./	Item: E-A/E	E1.12	Location:			RB-160'-2	42'		
Drawing No.:	S-5	25-002		Description	on: RB Wa	II Liner Pla	te - 0° to	90°				
System ID: MC		-		- (								
Component ID: RBL	P-1004			_								
Limitations: EX	MINED A	LL ACCE	SSIBLE	AREAS			_					
Resolution: 1/32	* Line				Surlac	e Condition	: As Fo	ound				
Visual Equipment/A		hlight, 6°	Scale, E	Binoculars, Tap				<del></del>				
Inspected From:		Contain			de Contain			Both ()				
Light Meter Mfg.:		Lighting	_	Serial No.:		TI-3375)		Illuminat	ion:	~2	00ftc	
		····									1800	
Light Verification Til		ıl In 🔼 _	124	<u>'</u>	1530		N/A	<del></del> '	Cal Out 🕢		1600	
Visual Examination:		)irect/Rei	mote									
			,	Vent System Or	Containm	ent Surface	<b>es</b>					
Coated Areas	x				Non	-Coated Are	as					
	Accept	Reject	N/A	See Comments				Accept	Reject	N/A	-	ee ments
	, , , , , , , , , , , , , , , , , , ,	,							•		-	
1) Rust	v				12) Brok	on Welds		¥				
2) Flaking	X	_	-		•	ing of Liner		X		_	-	_
3) Blistering	X			_	14) Pittir	=		X			_	_
4) Peeling	X			_		essive Corro	sion	x	_		, -	_
5) Chipping	<u>X</u>	_	_		16) Wea	ır		<u>x</u>		_	_	_
6) Wear	X	_	_		17) ARC	Strikes		<b>X</b>		_	_	_
7) Checking	<u>X</u>		_		18) Den	is		<b>X</b>	-		_	_
8) Cracking	<b>X</b> .	_			19) Surf	ace Discont	inuities	<b>.X</b> .		_	_	_
9) Gouges	X		_	_	20) Othe	er		_		X	_	
10) Discoloration	X											
11) Other	_		X									
Comments:												
ADDITIONAL REF	ERENCIN	G PROC	EDURE;	NAP-02, REV. 2.	. PREVIOL	JS DATA VI	ERIFIED	, NO CHA	NGES NO	TED.		
Results:	Accept [☑]	Rei	ect [	Eval [								
Percent Of Coverage	_		_	N/A	·	Reviewed	Previous	s Data:	Y	es		
Examiner Leve	i li	: در مدت	Signature	Da 11/20/20	ate Review			٥.	Signature		٠	Date
LeBlanc, Marc J.  Examiner Leve		1	Siggature		07 Joe Le ate Site Re			<del></del>	Signature		1.22.0	Date
Connier, Jason B.	• /	lua !	10mm	11/20/20	1	ortmann	6	YII	12/1	,	11/22	107
	I NY	0	Signature	Da	ate ANII R	eview	1/1	Va Main	Signature			Date
N/A	<u>U</u>				Tom Y	lyatt, ANII		UNIX		<i>I</i>	2/1/0	ソ



Report No.:	٧t	-07-0	67	
Page.	2	of	2	

Summary No.: E1.12.0158

Examiner: LeBlanc, Marc J.

Level: 11 Reviewer: Joe Lese, PE

Date:

Examiner: Sonnier, Jason B.

11 Level:

Site Review: Rick Portmann

Date:

Other: N/A

Level: N/A

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

Liners associated with Plate: RBLN-1045, RBLN-1046, RBLN-1047, RBLN-1048, RBLN-1049, RBLN-1050, RBLN-1051, RBLN-1052, RBLN-1053, RBLN-1054, RBLN-1055, RBLN-1056, RBLN-1057, RBLN-1058, RBLN-1059, RBLN-1060, RBLN-1061, RBLN-1062, RBLN-1063, RBLN-1064, RBLN-1065, RBLN-1066, RBLN-1067, RBLN-1068, RBLN-1069, RBLN-1070, RBLN-1071, RBLN-1072, RBLN-1073, RBLN-1074, RBLN-1075, RBLN-1076, RBLN-1077, RBLN-1078, RBLN-1079, RBLN-1080, RBLN-1081, RBLN-1082. RBLN-1083, RBLN-1084, RBLN-1085, RBLN-1086, RBLN-1087, RBLN-1088, RBLN-1089, RBLN-1090, RBLN-1091, RBLN-1092, RBLN-1093, RBLN-1094, RBLN-1095, RBLN-1096, RBLN-1097, RBLN-1098, RBLN-1099, RBLN-1100, RBLN-1101, RBLN-1102, RBLN-1103, RBLN-1104, RBLN-1113, RBLN-1114, RBLN-1115, RBLN-1116, RBLN-1117, RBLN-1118, RBLN-1119, RBLN-1120, RBLN-1121, RBLN-1122, RBLN-1123, RBLN-1124, RBLN-1125, RBLN-1126, RBLN-1127, RBLN-1128, RBLN-1129, RBLN-1130, RBLN-1162, RBLN-1163, RBLN-1164, RBLN-1165, RBLN-1166, RBLN-1176, RBLN-1177, RBLN-1178, RBLN-1179, RBLN-1180, RBLN-1181, RBLN-1182, RBLN-1183, RBLN-1184, RBLN-1185, RBLN-1186, RBLN-1187, RBLN-1188, RBLN-1189, RBLN-1190, RBLN-1191, RBLN-1192, RBLN-1193



# Visual Examination of IWE Surfaces (VT-3)

Site/Unit: _	CR3	<u>/</u>	3	Proce	edure:	NDEP-C	620	<u> </u>	utage No.:	RF	O15-IWE
Summary No.:	<b>E</b> 1	.12.0159		Procedure	Rev.:	2		F	leport No.:	v	r-07-068
Workscope:		ISI		Work Orde	er No.:	6810	13		Page:	1	of 2
ode: ASME 199	2 Ed. Thr	u 92 Ad.	Cat./I	tem: E-A/E	1.12	Location:			RB-242'-2	50'	
rawing No.:	 S-5	25-002	_	Description	on: RB Wal	l Liner Plat	e - 0° to	90° / Cra	ne Runav	ay Su	pport Galle
ystem ID: MC				<b></b>						-	
omponent ID: RBI	P-1005		····								
	MINED A	LL ACCE	SSIBLE	AREAS							
					Surface	e Condition	. A. E.		-		
	" Line	himbs 61	Coole: B	innerilare Tem			ASPO	-unu			
Visual Equipment/A								Both O			
Inspected From:		e Containr	_		de Containn	•		Both ()			
Light Meter Mfg.:	GE	Lighting		Serial No.:	0699 (1	TI-3375)		Illuminat	tion:	> 2	00ftc
Light Ventication Ti	nes: Ca	l In 🗹 _	140	<u> </u>	1500	/	N/A	(	Cal Out 🐼		1630
Visual Examination		irect/Ren	note								
				ent System Or	Containme	ent Surface	<del></del>				<del> </del>
Coated Areas	<b>X</b> .			•	Non-	Coated Are	as <u>X</u>				
004.00	Accept	Reject	N/A	See Comments				Accept	Reject	N/A	See Commen
1) Rust	v				12) Broke	en Welds		v			
2) Flaking	X X				•	ng of Liner		X	_	-	_
3) Blistering	X	_	_	_	14) Pittin	•		X		_	
4) Peeling	X			_		ssive Corro	sion	X	_	_	
5) Chipping	X			_	16) Wear			X.	_		<del></del>
6) Wear	$\hat{\mathbf{x}}$		_	_	17) ARC			X	_	_	_
7) Checking	<u>x</u>		_		18) Dent	S		X		_	_
8) Cracking	<u>x</u>	<u> </u>		_	19) Surfa	ice Disconti	nuities	X			_
9) Gouges	X				20) Othe	r			_	X	_
10) Discoloration	X										
11) Other			X	_	1						
Comments: ADDITIONAL REF Results:	ERENCIN		EDURE; I	NAP-02, REV. 2	. NO CHAN	IGE NOTE	O FROM	PREVIO	US DATA.		
Percent Of Coverage	ge Obtaine	ed > 90%:		N/A		Reviewed	Previous	s Data:	Y	es	_
Examiner Leve	el fil	S	Signature	Da	ate Review	er		7	Signature		Da
Komara, Bernard		P. Kon		11/21/20	07 Joe Le	se, PE		0.6	by.		11.23.07
Examiner Leve			ignature	Di	ate Site Re		ZQ	1 /.	Signature		. Da
uplechain, Lenu		2		11/21/20		ortmann	K	of Th			11/23/0
her Leve	N/A	S	ignature	Da	ate ANII Re		~	76 1/1	Signature	!	Dat 12/1/07



Summary No.: E1.12.0159

Other: N/A

Examiner: Komara, Bernard P.

Examiner: Duplechain, Lenus F.

## **Supplemental Report**

			٠	Report No.:	vt	-07-068
				Page:	2	of <u>2</u>
Level:	101	Reviewer:	Joe Lese, PE		Date:	
Level:	11	Site Review:	Rick Portmann	BIP	Date:	nlzzloz
		AAHI 5. 3	S 144 AA AB411	1144		4//

### Comments:

Liners associated with Plate: RBLN-1105, RBLN-1106, RBLN-1107, RBLN-1108, RBLN-1109, RBLN-1110, RBLN-1111, RBLN-1112, RBLN-1131, RBLN-1132, RBLN-1133, RBLN-1134, RBLN-1135, RBLN-1136, RBLN-1137, RBLN-1138, RBLN-1139, RBLN-1140, RBLN-1141, RBLN-1142, RBLN-1143, RBLN-1144, RBLN-1145, RBLN-1146, RBLN-1147, RBLN-1148, RBLN-1149, RBLN-1150, RBLN-1152, RBLN-1153, RBLN-1154



Site/Unit: _	CR3	<u>/</u>	3	Proce	dure:	NDEP-	0620	0	utage No.:	RF	O15-IWE
Summary No.:	E	1.12.0160		Procedure	Rev.:	2		R	eport No.:	VT	-07-069
Workscope:		ISI		Work Orde	r No.:	6810	43	_	Page:	1	ol <u>2</u>
Code: ASME 19	92 Ed. Th	ru 92 Ad.	Cat./	tom: E-A/E	1.12	Location			RB-250	)	
Drawing No.:	S-	525-006		Descriptio	n: RB Da	me Liner P	late - 0*	to 90°		•	
System ID: MC				<b>-</b>							
Component ID: RBI	D-1006										<del></del>
·	····			10510	<del></del>	· · · · · · · · · · · · · · · · · · ·	_				
_imitations: EX/	MINEO	ALL ACCE	SSIBLE	AREAS							
Resolution: 1/32	" Line				Surfa	ce Condition	: As Fo	und			
Visual EquipmentA	ids: Flas	shlight, 6"	Scale, E	linoculars, Tape	Measure	, Spotlight.					
Inspected From:	Insid	le Containn	ment 💿	Outsid	te Contain	ment ()		Both (			
Light Meter Mfg.:	GE	Lighting		Senal No.:	0699	(TI-3375)		Illuminat	ion:	> 2	00ftc
			140		1500	/	 N/A				1630
Light Verification Ti				<u> </u>	1500	′ <del>_</del> _	IVA	— '	Cal Out 🔽		1630
Visual Examination	:	Direct/Ren	note	_							,
			•	Vent System Or	Containn	ent Surfac	es				
Coated Areas	x			• -	Nor	-Coated Are	as 🗶				_
	Accept	Reject	N/A	See Comments				Accept	Reject	N/A	See Comment
	лосері	jeu.	1474						•		
1) Aust				v	12) Pro	ken Welds		v			
2) Flaking	_	_		X		ing of Liner		Ŷ	_		_
3) Blistering	X	_	-	<del>-</del>	14) Pitti			X	_	_	<u> </u>
4) Peeling	X		<del>-</del> .	_		essive Corre	osion	X		_	
5) Chipping	X		_	<del></del>	16) We		,,,,,,	X		_	_
6) Wear	X	_	_	_	•	C Strikes		X			
7) Checking	X	<del>-</del> .		<del></del>	18) Der			X			_
8) Cracking	- <b>X</b>			<del></del>	-	ace Discont	inuities	X			
9) Gouges	X				20) Oth	er	٠.,		_	_	$\frac{\overline{\mathbf{x}}}{\mathbf{x}}$
10) Discoloration	_		_	<u>x</u>				_	_		
11) Other			_	$\overline{\mathbf{x}}$	•						
Comments:					<del> </del>	, <u>.</u>	···				<del></del>
ADDITIONAL REF	ERENCIA	IG PROCE	DURE; I	NAP-02, REV 2.	NO CHAI	NGE NOTE	FROM	PŘEVIOU	S DATA, 1	APE/S	URVEY
MARKERS REMA	N AFFIX	ED IN PLA	CE AT A	ZMUITH ~80°	•		,-		,		
Results:	Accept 2	y Rejo	ect []	Eval []				<del></del>			
Percent Of Covera	ge Obtain	ed > 90%:		N/A		Reviewed	Previou	s Oata:	Y	:s 	
Examiner Leve	111	S	ignature	Da	te Revie	ver			Şignature		Date
Komara, Bernard		A 11	non		7 Joe L		ہے	10. P			1.83.07
Examiner Leve	••		ignature	Da	te Site R		79	1	Signature		Date
plechain, Lenu		- Mu	1		7 Rick F		<u>~</u>	-X	4	10	23/07
_	A'N I	S	ignature	. Da			TA	HILA	ignature		Date
N/A					Tom \	Vyatt, ANII		MURU		l	2/1/07



Report No.: VT-07-069

Page:

Summary No.: E1.12.0160

BPK Examiner: Komara, Bernard P.

Level: Ш Reviewer: Joe Lese, PE

Date:

Examiner: Duplechain, Lenus F.

Level: H Site Review: Rick Portmann

Date:

Other:

Level: NA

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

Liners associated with Plate: RBLN-1500, RBLN-1501, RBLN-1502, RBLN-1503, RBLN-1504, RBLN-1505, RBLN-1506, RBLN-1507. RBLN-1508, RBLN-1509, RBLN-1510, RBLN-1511, RBLN-1512, RBLN-1513, RBLN-1514, RBLN-1515, RBLN-1516, RBLN-1517, RBLN-1518, RBLN-1519, RBLN-1520, RBLN-1521, RBLN-1522, RBLN-1523, RBLN-1524, RBLN-1525, RBLN-1526, RBLN-1527, RBLN-1528, RBLN-1529, RBLN-1530, RBLN-1531, RBLN-1532, RBLN-1533, RBLN-1534, RBLN-1535, RBLN-1536, RBLN-1537. RBLN-1538. RBLN-1539. RBLN-1540. RBLN-1541. RBLN-1542. RBLN-1543. RBLN-1544. RBLN-1545. RBLN-1547. RBLN-1548, RBLN-1549, RBLN-1550, RBLN-1551, RBLN-1552, RBLN-1553, RBLN-1554, RBLN-1555, RBLN-1556, RBLN-1557, RBLN-1558, RBLN-1559, RBLN-1561, RBLN-1562, RBLN-1563, RBLN-1564, RBLN-1565, RBLN-1566



Site/Unit:	CR3	<u>/</u>	3	Proc	edure:	NDEP-00	320	O	utage No.:	lo.:RFO15-IWE	
Summary No.:	E	1.12.0161		Procedure	Rev.:	2		R	leport No.:		T-07-070
Workscope:		ISI		Work Orde	er No.:	68104	3		Page:	1	of 2
Code: ASME 19	92 Ed. Th	ru 92 Ad.	Cat./	tem: E-A/I	E1.12	Location:			RB EL 93'	-0 <b>.</b>	
Drawing No.:	S-	525-001	_	Descripti	on: Basem	ent Liner En	nbedde	d in 24" (	Concrete		
System ID: MC	;			<del>-</del>							
Component ID: RB	LP-2001										
		UPPLEM	ENTAL R	EPORT FOR L	IMITATION	S					
Resolution: 1/3	2" Line				Surfac	e Condition:	WIPE	D AS NEE	DED		,
Visual Equipment/	lids: Flas	hlight, 6"	Scale, T	ape Measure, S	Spotlight.						
Inspected From:		e Containi			ide Containr	ment ()		Both ()			
Light Meter Mfg.:	GE	Lighting		Serial No.:	0699 (	TI-3375)		Illuminat	ion:	> 2	00ftc
Light Verification T	imes: Ca	al In 🐼	135	o /	N/A	,	— N/A	(	Cal Out 🐼		1730
Visual Examination		— ت Direct/Rer				<del></del>					
				ent System O	r Containm	ent Surfaces	 S				
Coated Areas	<b>.</b> X.			·		Coated Area					
	Accept	Reject	N/A	See Comments				Accept	Reject	NA	See Comments
	Accept	neject	144	Comments				7.000,00	,	••••	Comments
1) Rust			v		12) Rmk	en Welds				v	
2) Flaking	_		X	_	•	ing of Liner		_		X	
3) Blistering	_	_	X	_	14) Pittin	_		_		X	_
4) Peeling	<u> </u>		X		•	ssive Corros	ion	_	_	X	
5) Chipping		_	<b>X</b>		16) Wea	r			_	<u>x</u>	
6) Wear	_	_	X	_	17) ARC	Strikes		_	_	<u>x</u>	_
7) Checking			X	_	18) Dent	s			_	X	
8) Cracking			<b>X</b> .		19) Surfa	ace Discontin	uities	_	_	X	
9) Gouges	_	_	<u>X</u>	_	20) Othe	r		_			<u>x</u>
10) Discoloration	_	_	X								
11) Other	_	<del>-</del>		X	٠.,						
Comments: ADDITIONAL REF SUPPLEMENTAL Results:		FOR ADD			NO CHAN	GES NOTE	FRON	PREVIO	US DATA.	SEE	
Percent Of Covera	ge Obtain	ed > 90%:	:	N/A		Reviewed F	revious	Data:	Y	es	
Evenines I am	01 000		Signature		ate Review				Sidostruss		
Examiner Levi	el Kl P.			ان 11/5/20 ــــــــــــــــــــــــــــــــــــ				10	Signature		Date (-25 - 9)
	el N/A		ignature		ate Site Re			1	Signature		Date
					Rick P	ortmann	DC	FUL	4	11	126/07
her Lev	el N/A	5	Signature	D	ate ANII Re		711	a/11CTA	Signature		Date
N/A					Tom W	yatt, ANII	([1]	YLTIN.	,	/	12/1/07



	•				Report No.:	VT	<del>-07-070</del>
					Page:	2	of 2
Summary No.:	E1.12.0161				A 1		
Examiner:	Komara, Bernard P. BPIC	Level:	111	Reviewer:	Joe Lese, PE	Date:	11.25.57
Examiner:	N/A	Level:	N/A	Site Review:	Rick Portmann	Date:	4/24/07
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	Date:	12/1/57

Comments:

#### **Not Accessible**

Inaccessible Areas: (Comments for RBLP-2001)

•The base containment liner plate is covered by a two foot (2') thick concrete slab and therefore is inaccessible for VT-3/VT-1 Examination.

Accessible Areas: (Comments for RBLP-2001)

•The accessible concrete surface areas, construction joints, and other slab penetrating mediums were examined for evidence of base plate degradation. None was noted.



Site/Unit:	CH3	/ 3	— Proc	edure:	NDEP-0620	`	Jutage No.:	HF	O15-IWE
Summary No.:	. E	1.12.0162	Procedure	Rev.:	2		Report No.:		r-07-071
Workscope:		ISI	Work Orde	er No.;	681043		Page:	1	of 2
Code: ASME 19	92 Ed. Th	ru 92 Ad. Ca	it./ilem: E-A/I	E1.12	Location:		RB-95'-11	9'	
Drawing No.:	S-	525-003	Description	on: RB Wa	II Liner Plate - 9	0° to 180°			
System ID: MC	;		<del></del>						
Component ID: RB	LP-2002								
		ALL ACCESSIBI	E AREAS				·		
Resolution: 1/3	2" Line			Surfac	e Condition: As	Found			
Visual Equipment/	-	shlight, 6" Scale	, Binoculars, Tap		_				
Inspected From:		e Containment		de Containr		Both (	)		<del></del>
Light Meter Mlg.:		Lighting	Serial No.:		TI-3375)	Ulumina		~ 2	00ftc
-			_	<del></del>				,,,	
Light Verification T	imes: C	al In 🐼1	350 /	1600		WA	Cal Out 🛂		1730
Visual Examination	): 	Direct/Remote							
			Vent System O	Containm	ent Surfaces			,	
Coaled Areas	<u> </u>		_	Non-	Coated Areas	X.			_
•	Accept	Reject N/A	See Comments			Accept	Reject	N/A	See Comments
	vccehí	rieject 14/A	Comments			жоср	,		Comments
	-								
1) Rust		<u>x</u> _	_	-	en Welds	<b>X</b>	_		
2) Flaking	X		_	=	ing of Liner	<u>X</u>	_	_	. —
3) Blistering	X			14) Pittin	•	X		_	_
4) Peeling	_	<del>-</del> -	X	-	ssive Corrosion	X		_	
5) Chipping	_	<u>*</u> _		16) Wea 17) ARC		<del>-</del>	X	_	-
6) Wear 7) Checking	_	<u>x</u> –	_	•		X			_
8) Cracking	X		<del>-</del>	18) Dent	s ace Discontinuitie	X		-	_
9) Gouges	X		_	20) Othe		es X	_	_	
10) Discoloration	X		_	20, 01116	•	_	_	<u> </u>	
11) Other	<b>A</b>	_ <u>x</u>	_						
							- <del></del>		
Comments:	EDENCA	ić PROSEDUDI	. NAD 00 DEN 0	THE FOL		050 ZO 88	- CHOUSE A	.DE\.	urien.
ADDITIONAL RES				. INE PUL	LOWING CHAN	GES IU PH	LTIUUSLI	IVEN I	IFIEU
	Accept [		•	4	UCR# Z5	7242			
Percent Of Covera	ige Obtain	ed > 90%:	N/A		Reviewed Previ		Y	98	
Examiner Lev	el III	Signatu	re D:	ate Review	ler.	<u>-</u>	Signature		Date
Komara, Bernard		Koman	11/5/20		=:	Aa.d			11.22.0)
	el 11	Signatu		ate Site Re		<del></del>	Signature		Pate
Blanc, Marc J.		rece		07 Rick P	ortmann	アナ	Uhl	1	1/22/07
	el N/A	Signatu	re Da	ate ANII Re		YAM DE	Sipnature		Date
N/A				Tom W	yatt, ANII				12/1/07



Report No.:	VT	-07-07	71
Page:	2	of	2

Summary No.:	E1.12.0162					A 1.	
Examiner:	Komara, Bernard P.	BPK	Level:	111	Reviewer:	Joe Lese, PE	Date: 11.27.07
Examiner:	LeBlanc, Marc J.	MJL	Level:		Site Review:	Rick Portmann 01/	Date: #/72/07
Other:	N/A		Level:	N/A	ANII Review:	Tom Wyatt, ANII	Date: 12/1/07

#### Comments:

Penetrations associated with Plate: PEN-206, PEN-207 Liners associated with Plate: RBLN-2001, RBLN-2002, RBLN-2003, RBLN-2004, RBLN-2005, RBLN-2006, RBLN-2007, RBLN-2008, RBLN-2009, RBLN-2010, RBLN-2011, RBLN-2012, RBLN-2013, RBLN-2014, RBLN-2015, RBLN-2016, RBLN-2017, RBLN-2018.

Item #1 (Reference Page 1 - Condition 01, 05, 66, 16): Multiple areas of rust. (See VT-1 Report 07-210).

#### Inaccessible Areas:

•Approximate Azimuth 105 – 125 Degrees: Area behind HVAC duct work outside parameters for VT-3/VT-1.

•Approximate Azimuth 170 Degrees: Area behind HVAC duct work outside parameters for VT-3/VT-1.



Site/Unit:	CR	3 /	3		Pro	ocedure: _	NDEP-	1620		utage No.:	RF	015-IWE	<u> </u>
Summary No.:		E1.12	.0162		Procedu	ıre Rev.:	2		R	leport No.:	VI	Γ-07-210	
Workscope:		IS	SI		Work O	rder No.:	6810	43		Page:	1	of _	2
ode: ASME	1992 Ed	. Thru 9	2 Ad.	Cat./Ite	m: <u>E-/</u>	VE1.12	Location:			RB-95'-11	<b>a</b> ,		
Orawing No.:		S-525-	003		Descrip	otion: RB V	Vall Liner Pla	te - 90° 1	o 180°				
System ID: N	(C										·	:	
Component ID: R	BLP-20	02								<del></del>			
Limitations: E	XAMIN	ED ALL	ACCES	SIBLE A	REAS								
Resolution: 1/	/32° Lin	0		· · · · · · · · · · · · · · · · · · ·		Surl	ace Condition	: As Fo	und				
Visual Equipmen	VAids:	Flashlig	ht, 6° 5	cale, Bir	oculars, Ta	ape Measu	re, Spotlight.						
Inspected From:	1	nside Co	ntainm	ent 💿	Ou	tside Conta	inment (		Both ()	•			
Light Meter Mig.:	•	GE LIgi	hting		Serial No.:	069	3 (TI-3375)		Illuminal	ion:	> 2	00ftc	
Light Verification	Times:	Cal In	<b>⊘</b>	1350	,	1600	1	 N/A	(	Cal Out 🔀		1730	
Visual Examinati	on:	Direc	:t/Remo	ote	*	. ,							
				Ve	nt System	Or Contair	ment Surface						
Coated Are	as 🗶					N	on-Coated Are	as <u>x</u>		٠		_	
	Acc	ept Re	iect	N/A (	See Comments				Accept	Reject	N/A	See Comm	
			,										
1) Rust					X	12) Bi	oken Welds				x		
2) Flaking			_	$\overline{\mathbf{x}}$	_	•	ulging of Liner			_	X	_	,
3) Blistering	_	_	_	<u>x</u>	_	14) Pi			_	_	X	_	
4) Peeling	_		_	<u>x</u>	_	15) E:	cessive Corro	sion	_	_	<u>x</u>	_	
5) Chipping	_		_		<b>X</b> -	16) W	ear		_		_	X	
6) Wear			_	_	X	17) Al	RC Strikes		_	_	X	_	
7) Checking	_		_	<b>X</b> .	_	18) De	ents		_		X	_	
8) Cracking	_			X	_	19) Si	urface Disconti	inuities		-	X		
9) Gouges	_		_	X.		20) O	her		_		X.		
10) Discoloration	n _		_	<u>X</u>	_								
11) Other	-		<del>-</del>		X								
Comments:								-				•••	
SEE SUPPLEM	ENTAL	REPORT	<b>r</b>										
Results:	Accep	ot 🔲	Rejec	# 🗀	Eval 🗸		NCR #	257	242				
Percent Of Cove	rage Ot	otained >	90%:		NA		Reviewed			Ye	S	_	
Examiner Le	evel III		Sid	nature		Date Revi	ewer		7	Signature			)ate
Komara, Bernai		B.P.		iaia	11/5/	1	Lese, PE	) لمر	7. X		1	1.52.0	
	evel (1			nature		1	Review	V	) , ,	Signature		1 9	ate
Blanc, Marc		2	26_	<u> </u>	11/5/		Portmann		1		<u> </u>		67
N/A	ovei M	A	Sig	nature			Review Wyatt, ANII	THI		Signature	,	2/1/07	Date
1.00							Jaco		WWW			יטן יו	



Report No.:		-07-2	10
Page.	2	of	2

			****			
iummary No.:	E1.12.0162					
Examiner:	Komara, Bernard P. BPIL	Level:		Reviewer:	Joe Lese, PE	Date: (1, 27,07)
Examiner:	LeBlanc, Marc J. MSL	Level:	11	Site Review:	Rick Portmann	Date: 1/22 07
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	Date: 12/1/07
	· · · · · · · · · · · · · · · · · · ·					<del>-, ,</del>

#### Comments:

Penetrations associated with Plate: PEN-206, PEN-207 Liners associated with Plate: RBLN-2001, RBLN-2002, RBLN-2003, RBLN-2004, RBLN-2005, RBLN-2006, RBLN-2007, RBLN-2008, RBLN-2009, RBLN-2010, RBLN-2011, RBLN-2012, RBLN-2013, RBLN-2014, RBLN-2015, RBLN-2016, RBLN-2017, RBLN-2017, RBLN-2018, RBLN-2019, RBLN-

2018.

Item #1 (Reference Page 1 – Condition 01, 05, 06, 16): Approximate Elevation 95' – 119'. Approximate Azimuth 90 – 180 Degrees. Multiple areas of rust. (See VT-3 Report VT-07-071). VT-1 determined that wastage corrosion has not occurred in the areas identified. The rust is a result of failure of the liner coating primarily due to mechanical impact (chipping) and abrasion (wear). Most areas are 1/2" – 2" in area or diameter.



Site/Unit.	CHS		<u> </u>	. Pluce	e	NUEP-U	)ZU		utage No.;	HI-O13-IME		<u> </u>
Summary No.:		E1.12.0163	3	Procedure	Rev.:	2		A	leport No.:		VT-07-072	
Workscope:		ISI	<del></del>	Work Orde	r No.:	68104	3		Page:		of _	2
Code: ASME 19	92 Ed. TI	hru 92 Ad.	Cat J	Item: E-A/E	1.12	Location:			RB-119'-1	50'		
Drawing No.:	S-	-525-003		Description	n: RB Wa	III Liner Plate	- 90° t	o 180°.				
System ID: MC				<del></del>	<del></del>				-			
Component ID: RE							-				-	
· —		ALL ACC	ESSIBLE	AREAS							,	
	2° Line				Surfa	ce Condition:	As Eo	und				
Visual Equipment/		shlight 6'	Scale I	Binoculars Tans			7310					
								Both O			-:	
Inspected From:		de Contain	_		de Contain	_		Both ()			•	
Light Meter Mfg.: _	GI	E Lighting		Serial No.:	0699	(TI-3375)		Illuminat	ion:	> 2	00ftc	
Light Verification T	imes: C	al In 🐖 _	124	15 /	1530	′	NA	(	Cal Out 🔽		1800	
Visual Examination	n:	Direct/Res	mote									
				Vent System Or	Containm	ent Surface:	3	<b></b>				-
Coated Areas	: <b>X</b>			-	Non	-Coated Area	s 🗶					
000.00	_			See				A	Daiset	AI/A	Se	-
	Accept	Reject	N/A	Comments				Accept	Reject	N/A	Comn	pents
1) Rust		<b>X</b> .	_	_	•	en Welds		X	_	_		-
2) Flaking	_	<b>X</b>	_	<del></del> .	-	jing of Liner			<b>X</b>	_	_	-
3) Blistering	X	_	-	_	14) Pitti	-		X		_	_	-
4) Peeling				X	•	essive Corros	ion	X		_	_	-
5) Chipping	_	<u>X</u>	_	<del></del>	16) We			, <del>_</del>	X	_	_	-
6) Wear		X.	_	_	•	Strikes		<u>X</u>		_	_	-
7) Checking	X	_		_	18) Den		•••	<u>X</u>	_			-
8) Cracking	X		_	_		ace Discontin	บเนอร	X	_	_	· <del>-</del>	-
9) Gouges	X	_		_	20) Oth	er			X	_	_	-
10). Discoloration	_	_	<del>-</del>	<b>X</b> .								
11) Other		<u>X</u>						_:	<del></del>			
Comments: ADDITIONAL REI CONDITIONS NO Results:		SUPPLE			THE FO				EVIOUSLY	IDENT	IFIED	
Percent Of Covera				N/A		NCR #			Ye			
A SICELLE OF COASIS	ige Oriali	160 × 30 M		187		- IO VIGWOU F	.041003	<del>- 7</del>				
	el III		Signature				1 -	(,	Signature			Date
Komara, Bernard		P. lo		11/11/200		ese, PE	40	<u>Au</u>	,		٠٧٧٠٥	
Examiner Lev	el N/A		Signature	Da			<b>4</b>		Signature		/ /	Date
her Lev	el N/A		Signature	Da	<del></del>	ortmann (	<del>5-0</del>	1000	Signature			7 Date
N/A	e NVA	•	g-ratui B	Da	1	Vyatt, ANII	TNN.	(HH)	Pignature	/	7/1/0	フa18 フ
						,,,	-111	4~~~			<i>\\\\\</i>	



Report No.:	VT-07-072						
Page:	2	of _	2	_			

ummary No.:	E1.12.0163				. 1	•
Examiner:	Komara, Bernard P. BPIL	Level:		Reviewer:	Joe Lese, PE	Date: 172.67
Examiner:	N/A	Level:	NVA	Site Review:	Rick Portmann	Date: 1/27/07
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	Date: /2// /37

Comments:

Penetrations associated with Plate: PEN-201, PEN-202, PEN-203, PEN-204, PEN-205, PEN-208, PEN-209, PEN-210, PEN-211, PEN-212, PEN-213, PEN-214, PEN-215, PEN-216, PEN-217, PEN-222

Liners associated with Plate: RBLN-2019, RBLN-2020, RBLN-2021, RBLN-2022, RBLN-2023, RBLN-2024, RBLN-2025, RBLN-2026, RBLN-2028, RBL 2026, RBLN-2027, RBLN-2028, RBLN-2029, RBLN-2030, RBLN-2031, RBLN-2032, RBLN-2033, RBLN-2034, RBLN-2035, RBLN-2036, RBLN-2037, RBLN-2038, RBLN-2039, RBLN-2040, RBLN-2041, RBLN-2042, RBLN-2043, RBLN-2044, RBLN-2045, RBLN-2046, RBLN-2095, RBLN-2096, RBLN-2097, RBLN-2098, RBLN-2099, RBLN-2100, RBLN-2101, RBLN-2102, RBLN-2103, RBLN-2104. RBLN-2105, RBLN-2106, RBLN-2107, RBLN-2108, RBLN-2139,

ttem #1 (Reference Page 1 - Condition 01, 05, 06, 16): Multiple areas of rust. (See VT-1 Report VT-07-307).

Item #2 (Reference Page 1 - Condition 13). Bulging of liner. (See VT-1 Report VT-07-307)

item #3 (Reference Page 1 - Condition 11, 20). Other - Welded lugs. (See VT-1 Report VT-07-307)

Item #4 (Reference Page 1 - Condition 02). Flaking of paint. (See VT-1 Report VT-07-307)

- Approximate Azimuth 105 125 Degrees: Area behind HVAC duct work outside parameters for VT-3/VT-1.
- Approximate Azimuth 170 Degrees: Area behind HVAC duct work outside parameters for VT-3/VT-1.



Site/Unit: _	CR3 /		Proce	edure:	NDEP-06	20	O	utage No.:	RF	O15-IWE
Summary No.:	E1.12.01	63	Procedure	Rev.:	2		R	eport No.:	<b>V</b> T	Г-07-307
Workscope:	. ISI		Work Orde	r No.:	681043	}		Page:	1	of 2
ode: ASME 199	2 Ed. Thru 92 A	d. Cat/Ite	m: E- <b>A/E</b>	1.12	Location:			RB-119'-1	60'	
rawing No.:	S-525-003	<u> </u>	Description	on: RB Wall	Liner Plate	- 90° t	o 180°		_	
ystem ID: MC				· · · · · · · · · · · · · · · · · · ·						
omponent ID: RBL	.P-2003								P-d-	
	MINED ALL AC	CESSIBLE AI	REAS		·					
Resolution: 1/32	Line			Surface	Condition:	As Fo	und			
Visual Equipment/A	ids: Flashlight,	6" Scale, Bin	oculars, Tape	e Measure,	Spotlight.					
Inspected From:	Inside Conta	inment (	Outsid	de Containm	nent ()		Both (			
Light Meter Mfg.:	GE Lightin	ng :	Serial No.:	0699 (Т	7-3375)		Illuminat	ion:	> 2	00ftc
Light Verification Tir			, —	1530	,	 N/A	(	Cal Out 🐼		1800
Visual Examination:			<del></del>		<del></del>			œj		
risuai Examination.	Directr		-1 6:1	0-4-1			<u> </u>			
		Ve	nt System Or							
Coated Areas	<b>X</b>		See	иол-С	Coated Areas	· <u>I</u>				See
	Accept Rejec	t N/A C	comments				Accept	Reject	N/A	Commen
1) Rust	. <u> </u>		X	12) Broke	en Welds		_	_	X	
2) Flaking		_	X	13) Bulgir	ng of Liner			_	_	X
3) Blistering		X	_	14) Pitting	g			_	X	_
4) Peeling	_ <del>_</del>	_	<b>X</b> .	15) Exces	ssive Corrosi	on		<del></del>	X	_
5) Chipping		<b>X</b> .	_	16) Wear					_	X
6) Wear		<u><b>X</b></u>	_	17) ARC					X	<del></del>
7) Checking	_ <b>_</b>	X		18) Dents			_	_	X	_
8) Cracking		X		•	ce Discontin	uilies			X	
9) Gouges		X	_	20) Other	•		_		_	X
10) Discoloration		<del>_</del> ,	<b>X</b> .							
11) Other		<u>X</u>	· 							
Comments:										
SEE SUPPLEMEN	TAL REPORT			•						
Results:	ccept D F	Reject 🔲	Eval 🔽	<b>A</b>	uce # 2	257	242			
Percent Of Coverag	e Obtained > 90	·-  %:	NA		Reviewed P			Y	 2•S	
Examiner Leve		Signature	Da	1 -		()	~ 7	Signature		Dat
Komara, Bernard F		Cinnolius	11/11/20				b Wac	Sinkalura		.55.0J
Examiner Leve NA	AWA .	Signature	Oa	ate   Site Rev		KY)	1/6	Signature		(22/07
	N/A	Signature	Da	te ANII Re		B	1111 -	Signature		Dat
N/A	1425				yatt, ANII		A ALDA	(H)	/	2/1/07



Page:	2	of 2	
	Date	11.2.0)	
7/	Date	11/22/0	7
	Date:	737	
	Page:	Date Date	Date: 1.2.0) Date: 1.22/0

#### Comments:

litem #1 (Reference Page 1 – Condition 01, 05, 06, 16): Approximate Elevation 95' – 119'. Approximate Azimuth 90 – 180 Degrees. Multiple areas of rust. (See VT-3 Report VT-07-072). VT-1 determined that wastage corrosion has not occurred in the areas identified. The rust is a result of failure of the liner coating primarily due to mechanical impact (chipping) and abrasion (wear). Most areas are 1/2" – 2" in area or diameter.

Item #2 (Reference Page 1 – Condition 13). Approximate Elevation 155'. Approximate Azimuth 95 Degrees, Bulging of liner. (See VT-3 Report VT-07-072). VT-1 determined that dimension of bulge area is as follows:
a)□12" L X 12" W

No degradation such as rust or deterioration of the liner was noted.

Item #3 (Reference Page 1 - Condition 11, 20). Approximate Elevation 129'. Approximate Azimuth 125 - 140 Degrees. Other - Welded lugs. (See VT-3 Report VT-07-072). VT-1 determined five (5) lugs welded to the liner plate are coated. No degradation or deterioration of the liner was noted.

Item #4 (Reference Page 1 – Condition 02). Approximate Elevation 123'. Approximate Azimuth 100 Degrees. Flaking of paint. (See VT-3 Report VT-07-072). VT-1 determined that coatings on the face of the following penetration has deteriorated and light to medium rust has developed. Wastage corrosion has not occurred in the areas identified. Deterioration of the coating is lost likely due to heat from the process piping.

Penetration: 201 Elevation: 123' Azimuth: 100 Degrees



Site/Unit: _	CR3	<u>/</u>	3	Proce	dure: <u>NC</u>	DEP-0620	<u> </u>	utage No.:	RF	O15-IWE
Summary No.:	E	1.12.0164	4	Procedure	Rev.:	2	F	Report No.:	<u> </u>	r-07- <b>07</b> 3
Workscope:		ISI		Work Orde	r No.:	681043	_	Page:	1	of 2
ode: ASME 199	2 Ed. Th	ru 92 Ad.	. Cat./	Item: E-A/E	1.12 Loca	ation:		RB-160'-24	12'	
Drawing No.:	S-	525-003		Descriptio	n: RB Wall Line	r Plate - 90°	to 180°			
System ID: MC										
Component ID: RBL	.P-2004								1	<del></del>
imitations: EXA	MINED	ALL ACC	ESSIBLE	AREAS						
Resolution: 1/32	" Line				Surface Con-	dition: As Fo	ound			
Visual Equipment/A	ids: Flas	shlight, 6	* Scale, 6	Binoculars, Tape	Measure, Spoti	ight.	-			
Inspected From:	Insid	e Contain	ment 💿	Outsic	le Containment	0	Both (			
Light Meter Mfg.:	GE	Lighting	1	Serial No.:	0699 (TI-337	5)	Illuminat	tion:	> 2	00ftc
Light Verification Tir					1530 /			Cal Out 🕢		1800
		_					•	Cai Out 🚱		1000
Visual Examination:		Direct/Re				<u> </u>				
			•	Vent System Or	Containment Su					
Coated Areas	X			See	Non-Coate	d Areas X	•			See
	Accept	Reject	N/A	Comments			Accept	Reject	N/A	Comments
1) Rust	X				12) Broken We	elds	X			
2) Flaking	X	_	_	_	13) Bulging of I	Liner	X	_	_	_
3) Blistering	X				14) Pitting		<b>X</b>	_	_	_
4) Peeling	<u>X</u>	_			15) Excessive	Corrosion	X		_	
5) Chipping	_	X	_		16) Wear	•	X		_	_
6) Wear	Х.	·	· —	_	17) ARC Strike	S	X		_	
7) Checking	X	_	_	<u>.</u>	18) Dents		X	_	_	_
8) Cracking	X	_	_		19) Surface Dis	scontinuities	<b>.X</b> .		_	_
9) Gouges	X				20) Other			_	X	_
10) Discoloration	<b>X</b> .	_	_	_						
11) Other	_	_	X	_						
Comments:			,							
ADDITIONAL REFI					THE FOLLOWIN	IG CHANGES	S TO PRE	VIOUSLY F	RECOF	RDED
CONDITIONS NOT Results:	ccept [		mental ject 🗍	Eval [7]		¥ - ~ -	7			
				_	-	¥ 2577				······
Percent Of Coverage	ia Odranu	ea > 90%		N/A	Hevie	ewed Previous	o vala:	Ye	75 	
Examiner Leve	l il		Signature		te Reviewer	ů.	1,	Signature		Date
LeBlanc, Marc J.		4	<u> </u>	11/20/200		de.	0.6	<u> </u>	17.5	2.0)
Examiner Leve	L III	1 3	Signature	Da		_ <b>\D</b>	1 X	Signature	•	Date
Connier, Jason B. her Leve	I NA	met to	Signature	11/20/200 Da			J.W	Signature		(22/67
N/A	· MA		orginatur <del>y</del>	Ja	Tom Wyatt, A	7611 1	1/1/4	) Janaius	1	2///27
					1.5,					71.100



Report No.:	VT	-07-0	73	
Page:	2	of	2	

Summary No.: E1.12.0164

Examiner: LeBlanc, Marc J.

11 Level:

N/A

Level:

Reviewer: Joe Lese, PE

Examiner: Sonnier, Jason B.

11

Site Review: Rick Portmann

Other: N/A

Level:

ANII Review: Tom Wyatt, ANII

Date:

#### Comments:

Liners associated with Plate: RBLN-2047, RBLN-2048, RBLN-2049, RBLN-2050, RBLN-2051, RBLN-2052, RBLN-2053, RBLN-2054, RBLN-2055, RBLN-2056, RBLN-2057, RBLN-2058, RBLN-2059, RBLN-2060, RBLN-2062, RBLN-2063, RBLN-2064, RBLN-2065, RBLN-2066, RBLN-2067, RBLN-2068, RBLN-2069, RBLN-2070, RBLN-2071, RBLN-2072, RBLN-2073, RBLN-2074, RBLN-2075, RBLN-2076, RBLN-2077, RBLN-2078, RBLN-2079, RBLN-2080, RBLN-2081, RBLN-2082, RBLN-2083, RBLN-2084, RBLN-2085, RBLN-2086, RBLN-2087, RBLN-2088, RBLN-2089, RBLN-2090, RBLN-2091, RBLN-2092, RBLN-2093, RBLN-2094, RBLN-2109. RBLN-2110. RBLN-2111. RBLN-2112, RBLN-2113, RBLN-2114, RBLN-2115. RBLN-2116, RBLN-2117, RBLN-2118, RBLN-2121, RBLN-2122, RBLN-2123, RBLN-2124, RBLN-2125, RBLN-2126, RBLN-2127, RBLN-2128, RBLN-2129, RBLN-2130, RBLN-2131, RBLN-2132, RBLN-2133, RBLN-2134, RBLN-2135, RBLN-2136, RBLN-2137, RBLN-2138.

#### **INACCESSIBLE AREAS IN RBLP-2004**

- 1) 100° TO 125° INACCESSIBLE AREA BEHING VERTICAL DUCT WORK WITH EXCEPTION OF 4' X 6' AREA BETWEEN THE TWO DUCTS.
- 2) 168° TO 173° 160' TO 195' INACCESSIBLE AREA BEHIND VERTICAL DUCT RUN.
- 3) 168° TO 180° 185' TO 200' PARTIALLY INACCESSIBLE AREA BEHIND RING DUCT.

EM # 1 (REFERENCE PAGE 1, CONDITION #5) - VARIOUS CHIPPING, SCRAPES, AND NICKS ABOVE EQUIPMENT HATCH FROM LIFTS. PRIMER VISIBLE, NO CORROSION. AZMUITH 130° TO 160°, ELEVATION FROM 150' TO 170'. SEE VT-3 REPORT VT-07-308.



Site/Unit: _	CR3 /	3	Procedi	ure: NDEP-06	20	Outage No.:	RF015-IWE
Summary No.:	E1.12.0	)164	Procedure R	ev.: 2		Report No.:	VT-07-308
Workscope:	ıs		Work Order I	No.: 681043	3	Page:	1 of 2
Code: ASME 199	2 Ed. Thru 92	Ad. Cat/Ite	m: <b>E-A/E1</b> .	12 Location:		RB-160'-2	42'
Drawing No.:	S-525-0	03	Description:	RB Wall Liner Plate	- 90° to 18	0*	_
System ID: MC							
Component ID: RBL	.P-2004						
· ·		CCESSIBLE A	REAS				
Resolution: 1/32	* Line			Surface Condition:	As Found		<b>—</b>
Visual Equipment/A	ids: Flashligh	t, 6" Scale, Bin	oculars, Tape N	fleasure, Spotlight.			
Inspected From:		tainment (		Containment ()	Botl	n ()	
Light Meter Mfg.:			Serial No.:	0699 (TI-3375)	Illus	mination:	> 200ftc
Light Verilication Tir			, —	1530 /	N/A	Cal Out 🔄	1800
				,			
Visual Examination:	Direc	/Remote					
		Ve	nt System Or C	ontainment Surfaces			
Coated Areas	x		See	Non-Coated Areas	s 🗶		See
	Accept Rej	ect N/A C	comments		Acc	ept Reject	N/A Comment
_				,			
1) Rust		_ X		12) Broken Welds			¥
2) Flaking	<del>-</del> -	. <u>X</u>	_	13) Bulging of Liner	-		X _
3) Blistering		<u> </u>	<del></del>	14) Pitting	_		<u>x</u> _
4) Peeling		<u> </u>	_	15) Excessive Corrosi	ion		<u>x</u> _
5) Chipping		_	<b>X</b> .	16) Wear	_		<u>x</u> _
6) Wear		<u>. X</u>	_	17) ARC Strikes	_		<u>x</u>
7) Checking		_ <b>X</b> .	_	18) Dents	_		X _
8) Cracking		_ <b>X</b> .		19) Surface Discontin	uities _		<b>X</b>
9) Gouges			:	20) Other	-		<u>x</u> _
10) Discoloration		_ 🗶					
11) Other		_ <u>X</u>					
Comments:							
SEE SUPPLEMENT	TAL REPORT						
Results: A	Accept []	Reject []	Eval 🕢	NCR#	クケワッム	7	
Percent Of Coverage	· <del>_</del>		NA	Reviewed P			
, elcelli Ol Coveraç	jo obialiku >						
Examiner Leve	l H	Signature		Reviewer	٨	Signature	Date
LeBlanc, Marc J.	m	260	11/20/2007		0.	De la companya della companya della companya de la companya della	11.55.67
Examiner Leve Connier, Jason B.	1 1/11	Signature	Date 11/20/2007	1	W	Signature	
	NE SIN	Signature	Date	+ · · · <u>- · · · · · · · · · · · · · · · </u>	<del>_ (2)</del>	gnature	
N/A				Tom Wyatt, ANII	/N PA	UNIT	12/1/07



Report No.: VT-07-308
Page: 2 of 2

Summary No.:	E1.12.0164				. (	
Examiner:	LeBlanc, Marc J. M.T.	Level:	83	Reviewer:	Joe Lese, PE	Date: 1.27.6)
Examiner:	Sonnier, Jason B. 785	Level:		Site Review:	Rick Portmann	Date: 1/22/07
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	Date: /2/1/07

#### Comments:

#### **INACCESSIBLE AREAS IN RBLP-2004**

- 1) 100° TO 125° INACCESSIBLE AREA BEHING VERTICAL DUCT WORK WITH EXCEPTION OF 4' X 6' AREA BETWEEN THE TWO DUCTS.
- 2) 168° TO 173° 160' TO 195' INACCESSIBLE AREA BEHIND VERTICAL DUCT RUN.
- 3) 168° TO 180° 185' TO 200' PARTIALLY INACCESSIBLE AREA BEHIND RING DUCT.

ITEM # 1 (REFERENCE PAGE 1, CONDITION #5) - VARIOUS CHIPPING, SCRAPES, AND NICKS ABOVE EQUIPMENT HATCH FROM LIFTS. PRIMER VISIBLE, NO CORROSION. AZMUITH 130° TO 160°, ELEVATION FROM 150' TO 170'. SEE VT-3 REPORT VT-07-073.



Site/Unit: _	CR3	3		Proce	edure:	NDEP-	J520 		utage No.:	RF	015-IWE
Summary No.:	E1	.12.0165		Procedure	Rev.:	2		F	Report No.:		T-07-074
Workscope:		ISI		Work Orde	er No.:	6810	43	· .	Page:	1	of <u>2</u>
ode: ASME 199	2 Ed. Thr	u 92 Ad.	Cat./I	tem: E-A/E	<b>≣1.12</b>	Location:	:		RB-242'-2	50'	
rawing No.:	S-5	25-003	_	Description	on: RB W	all Liner Pla	te - 90° t	o 180°/(	Crane Run	way S	Supt. Galler
ystem ID: MC		. <u> </u>	_	_							
component ID: RBL	P-2005							·	<del></del>		
		LL ACCES	_ SSIBLE	AREAS							
Resolution: 1/32	* Line		-		Surfa	ce Condition	: As Fo	bund			
Visual Equipment/A		light, 6° S	Scale, 8	inoculars, Tap					<del></del>		-
Inspected From:		Containm			de Contair			Both ()			
•			···· •	Serial No.:		_		Illuminal	lian:		00ftc
Light Meter Mfg.:		_ighting		*****	<del></del>	(TI-3375)	<del></del>				
Light Verification Tir	nes: Cal	lu 🔁 🖳	140	<del></del>	1500	′	NA		Cal Out 🔽		1630
Visual Examination:	0	irect/Rem	ote	<del>-</del> .		•		·			
				ent System Or	Contain	nent Surface	es				
Coated Areas	x			_	Nor	n-Coated Are	eas 🗶			•	_
	Accept	Paie#	N/A	See Comments				Accept	Reject	N/A	See Commen
	Accept	nejeci	IVA	Conntients		•		Досерс	ricjeot		Commen
1) Rust	<b>X</b>	_	_		•	ken Welds		<u>X</u>	_	_	_
2) Flaking	<u>X</u>	_	_	_		ging of Liner		X	-		_
3) Blistering	<u>X</u>		_		14) Pitt	_	•	X	_	_	<b>—</b> .
4) Peeling	<u>x</u>	_	-	<del>-</del>		essive Corro	ISION	X	_	_	_
5) Chipping	X				16) We			X		_	_
6) Wear	X	_	-	<del></del> . '		C Strikes		X	_	_	
7) Checking	X	_	-		18) Der	its face Discont	inuitios	X	_		_
8) Cracking	X	_		_	20) Oth		nionie2	X	_	_	
9) Gouges	X				20) Oiii	E1		_	_	_	•
10) Discoloration 11) Other	<u>X</u>	_	~								
	<del>-</del>		<u>x</u>								
Comments:	-5510111										
ADDITIONAL REFE	enencin(	s PRUCEI	JUHE; F	145-02, HEV. 2.	, NU CHA	NGE NOTE	y PKUM	THE VIOL	US DATA,		
Results: A	ccept 🗹	Reje	ct 🔲	Eval 🗍							
Percent Of Coverage	e Obtaine	d > 90%:	•	N/A		Reviewed	Previous	Data:	Ye	:5	
Examiner Leve			gnature		ate Revie		1 /	$\int \int d$	Signature		Date
Komara, Bernard F		P. llan		11/21/20	ate Site R	ese, PE		1.0	Signatura		23.0)
Examiner Level uplechain, Lenus		34	anatura	11/21/20		eview \ Portmann	XZ	15	Signature	jį.	23/07
					_ , _ ,			ノー・レノに		** /	-31 0/_
ther Love	N/A	Sic	gnature	Oa	ate ANII F			16/.00	Signature		2/67



				-		Report No.:	VT	-07-074	<u> </u>
						Page:	2	of _	2
Summary No.;	E1.12.0165								
Examiner:	Komara, Bernard P. BPK	Level:	m	Reviewer:	Joe Lese, PE		Date:		
Examiner:	Duplechain, Lenus F. Ly	Level:	11	Site Review:	Rick Portmann	BIP	Date:	11/23	1/07
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	(ALA)		(2/1/	

### Comments:

Liners associated with Plate: RBLN-2141, RBLN-2142, RBLN-2143, RBLN-2144, RBLN-2145, RBLN-2146, RBLN-2147, RBLN-2149, RBLN-2150, RBLN-2151, RBLN-2152, RBLN-2153, RBLN-2154, RBLN-2155, RBLN-2156, RBLN-2157, RBLN-2158, RBLN-2159, RBLN-2160, RBLN-2161, RBLN-2162, RBLN-2163, RBLN-2164, RBLN-2165, RBLN-2166, RBLN-2167, RBLN-2168, RBLN-2169, RBLN-2170, RBLN-2171



Site/Unit:	CR3	/ 3		Proc	edure:	NDEP-0	620	~_ °	utage No.:	RF	O15-IWE
Summary No.:	E1	1.12.0166		Procedure	Rev.:	2		F	Report No.:		r-07-075
Workscope:		ISI		Work Orde	er No.:	68104	13	_	Page:	1	of 2
ode: ASME 19	92 Ed. Thr	u 92 Ad.	Cat./It	em: <b>E-A/</b>	E1.12	Location:			RB-250	j <b>i</b>	
Drawing No.:	S-5	25-007		Description	on: <b>RB Do</b> i	me Liner Pl	ate - 90°	to 180°			
System ID: MC											
Component ID: RB	LP-2006								<del></del>		
		LL ACCES	SSIBLE A	REAS							
Resolution: 1/3	" Line			<u>-</u>	Surfac	e Condition:	As Fo	und			
Visual Equipment/	ids: Flasi	hlight, 6" S	Scale, Bi	noculars, Tap	e Measure,	Spotlight.		<del></del>		•	
Inspected From:		Containm			de Containr			Both ()			
Light Meter Mfg.:		Lighting		Serial No.:		TI-3375)		Illuminat	ion:	2	00ftc
		-	1400		1500						<del></del>
Light Verification Ti		l In ☑	1400	'	1900	′	NA	<del></del> '	Cal Out 📝		1630
Visual Examination	:D	irect/Rem	ote								
			V	ent System Or	Containm	ent Surface	8				
Coated Areas	x			See	Non-	Coated Area	as 🗶				<b>0</b>
	Accept	Reject	N/A	Comments				Accept	Reject	N/A	See Comment
	•	•							•		
1) Rust				<b>v</b>	12) Brok	en Welds		v			
2) Flaking	<u>x</u>		-	<b>X</b>		ing of Liner	,	X.	-		
3) Blistering	X		_	_	14) Pittin	_		X	_	_	
4) Poeling	X	<del>-</del>		_	•	ssive Corro	sion	X		_	<del></del>
5) Chipping	X	_		<u></u>	16) Wea			X		_	
6) Wear	<u>x</u>	_	_		17) ARC	Strikes		X	_		
7) Checking	X	_	_	_	18) Dent	S		X	_		
8) Cracking	X	_	_		19) Surfa	ice Disconti	nuities	X	_		· <u>—</u>
9) Gouges	X	_	_		20) Othe	r		_	_		X
10) Discolgration	_	_	_	<b>X</b>							
11) Other	_	_	_	X						/	
Comments:							<u> </u>				
ADDITIONAL REF					NO CHAN	GE NOTED	FROM	PREVIOU	S DATA, 1	APE/S	URVEY
MARKERS REMA	N AFFIXE Accept 🔽	D IN PLAC Rejec		MUITH -100° Eval ☐							
Percent Of Covera		_	<u>u</u>	NA .		Reviewed	Previous	Data:	Ye	26	
									7		
	III	11	gnature	Da		•		1	Signature		Date
Komara, Bernard			malus		<del></del>		(	<b>₩</b> 0	The		11.23.07
Examiner Level Lev			nature	<sub>02</sub> /11/21 11/21/20	ite   Site Re 07   Rick Pe	view ortmann	R	$\mathbb{Z}/\mathcal{I}$	Signature	10	/23/07 Date
	I NA	Sic	nature	·			100	<del></del>	Signature	-	Date
			liiainia	Ua	ite   ANII Re	Melvi	<b>\</b> 4	\$ / . / AT	Mingrain		, Dave



- ·						Report No.:	<u>vr</u> .	<del>07-075</del>	_
						Page:	2	of <u>2</u>	_
Summary No.:	E1.12.0166			•					
Examiner:	Komara, Bernard P. BPK	Level:		Reviewer.	Joe Lese, PE		Date:		
Examiner:	Duplechain, Lenus F. LO	Level:		Site Review:	Rick Portmann	OUP.	Date:	1/23/1	2
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	THIN	Date:	14/1/0	Z

#### Comments:

Liners associated with Plate: RBLN-2500, RBLN-2501, RBLN-2502, RBLN-2503, RBLN-2504, RBLN-2505, RBLN-2506, RBLN-2507, RBLN-2508, RBLN-2509, RBLN-2510, RBLN-2511, RBLN-2512, RBLN-2513, RBLN-2514, RBLN-2515, RBLN-2516, RBLN-2517, RBLN-2518, RBLN-2519, RBLN-2520, RBLN-2521, RBLN-2522, RBLN-2523, RBLN-2524, RBLN-2525, RBLN-2526, RBLN-2527, RBLN-2528, RBLN-2529, RBLN-2530, RBLN-2531, RBLN-2532, RBLN-2533, RBLN-2534, RBLN-2535, RBLN-2536, RBLN-2537, RBLN-2538, RBLN-2539, RBLN-2540, RBLN-2541, RBLN-2542, RBLN-2543, RBLN-2544, RBLN-2545, RBLN-2546, RBLN-2547, RBLN-2548, RBLN-2549, RBLN-2550, RBLN-2551, RBLN-2552, RBLN-2553, RBLN-2554, RBLN-2555, RBLN-2556, RBLN-2556, RBLN-2556, RBLN-2566, RBL



Site/Unit: _	CR3 / 3	Proced	ure: NDEP-0	620 C	utage No.:	RFO15-IWE
Summary No.:	E1,12.0167	Procedure P	lev.:2	F	Report No.:	VT-07-076
Workscope:	ISI	Work Order	No.: 68104	3	Page: _	1 of 2
Code: ASME 199	2 Ed. Thru 92 Ad. C	at/Item: E-A/E1	.12 Location:		RB EL 93'-0	•
Drawing No.:	S-525-001	Description	: Basement Liner Er	mbedded in 24"	Concrete	
System ID: MC						
Component ID: RBL	P-3001					
<del></del>	ER TO SUPPLEMENT	L REPORT FOR LIM	ITATIONS			·
Resolution: 1/32	* Line		Surface Condition:	WIPED AS NE	EDED	
Visual Equipment/Ai	ds: Flashlight, 6" Sca	e, Tape Measure, Sp				
Inspected From:	Inside Containment		Containment ()	Both ()		
Light Meter Mfg.:	GE Lighting	Serial No.:	0699 (TI-3375)	lilumina	tion:	> 200ftc
_						1730
Light Verification Tin		1350/	N/A /	NA	Cal Out 🕢 _	1730
Visual Examination:	Direct/Remote					
		Vent System Or C	Containment Surface	8		
Coated Areas	<b>x</b>	See	Non-Coated Area	as 🗶		See
	Accept Reject N/A			Accept	Reject I	VA Comment
1) Rust			12) Broken Welds			<b>X</b>
2) Flaking	X		13) Bulging of Liner	_		X
3) Blistering	x		14) Pitting			<u> </u>
4) Peeling	X		15) Excessive Corros	sion		 X _
5) Chipping	<u>x</u>		16) Wear	_		<u> </u>
6) Wear	x		17) ARC Strikes	_		<u> </u>
7) Checking	x	_	18) Dents	_		<u>x</u> _
8) Cracking	X	_	19) Surface Discontin	nuities ·		<b>X</b>
9) Gouges	X	_	20) Other	_	_	_ X
10) Discoloration	X	<u> </u>				
11) Other		<u> </u>				
Comments:	<del></del>					
ADDITIONAL REFE	RENCING PROCEDUR		IO CHANGES NOTE	D FROM PREVIO	SUS DATA.	SEE
	REPORT FOR ADDITIO					
		_		<u> </u>		
Percent Of Coverag	e Obtained > 90%:	N/A	Reviewed I	Previous Data:	Yes	
Examiner Leve	Signat			Nat,	Signature	Date
Komara, Bernard F				4. U. Ac	, <u> </u>	11/30/07
Examiner Leve		Thomas Thomas	Site Review	12,1	Signature	Date
Other Leve		777			Signature	11/30/07 Date
LeBlanc, Marc J.	" M ISC	11/30/2007		THU PHOYES	_ Org. Picture	12/1/07
			,,			



Report No.:	VT-	76	
Page:	2	of	2

Summary No.: E1.12.0167

BPK Examiner: Komara, Bernard P.

Level: HI Reviewer: Joe Lese, PE

Examiner: Bennett, Charles T.

Level: H Level: Iŧ

Site Review: Rick Portmann

Date:

Other: LeBlanc, Marc J. MIL

ANII Review: Tom Wyatt, ANII

Date:

Comments:

#### **Not Accessible**

Accessible Areas: (Comments for RBLP-3001)

•The accessible concrete surface areas, construction joints, and other slab penetrating mediums including the sump were examined for evidence of base plate degradation. None was noted.

Exam completed on different days, 11/5/2007 & 11/30/2007. Light meter checks were as follows for 11/30/2007: pre call check 0900 and post cal 1245 with measured lumens greater than 200ftc with the same meter utilized on 11/5/2007.



Site/Unit:	CH3	1	3	Proced	JU18:	NDEP-06	20	0	utage No.:	H	015-IW	<u>E</u>
Summary No.:		E1.12.0168	3	Procedure (	Rev.:	2		Я	leport No.:		T-07-07	7
Workscope:		ISI		Work Order	No.:	681043	3 .		Page:	1	of _	3
ode: ASME 1	992 Ed.	Thru 92 Ad.	. Cat./I	tem: E-A/E	1.12	Location:			RB-95'-11	9.		
Drawing No.:		S-525-004		Description	n: RB Wa	II Liner Plate	- 180°	to 270°				
Gystem ID: N	IC			_						•	_	
Component ID: R	BLP-300	)2	·									
		D ALL ACC	ESSIBLE	AREAS		<del></del>					***	
Resolution: 1/	32" Line				Surfac	e Condition:	As Fo	und				=
Visual Equipmen			Scale, E	linoculars, Tape								
Inspected From:		side Contain			e Containi		<del></del>	Both ()				
•			_	Serial No.:		TI-3375)		Illuminat	ion-	_ <	004-	
Light Meter Mfg.:		GE Lighting			<u> </u>		<del>-</del>				200ftc	
Light Verification	Times:	Cal In 🕢 _	135	0/	1600	′	NA	(	Cal Out 🔽		1730	
Visual Examination	on:	Direct/Re	mote	_								,
			١	Vent System Or	Containm	ent Surfaces						
Coated Area	as X			0	Non-	Coated Area	s X					
	Acce	pt Reject	N/A	See Comments				Accept	Reject	NA	Se Comn	_
	7000	pr nojest									•	
1) Rust		. <b>X</b>			12) Brok	en Welds		x				
2) Flaking	X		_	_	•	ing of Liner		X	_	_	-	-
3) Blistering	X			_	14) Pittir	_		X	_			-
4) Peeling	<b>ح</b> ي	. –	_	$\bar{\mathbf{x}}$		essive Corrosi	оп	X	-			-
5) Chipping		<u> </u>	_		16) Wea				$\overline{\mathbf{x}}$			_
6) Wear		<u> </u>		_	17) ARC	Strikes		<u></u>		_	_	_
7) Checking	X			_	18) Dent	ts		<u>x</u>	_	_	_	_
8) Cracking	 .X.				19) Surfa	ace Discontin	uities	<u></u>	_			_
9) Gouges	X		_	_	20) Othe	er		=	<u></u>	_		_
10) Discoloratio		. х		_	•	•						
11) Other		. <b>X</b> .	_			•						
Comments:		<del> </del>		<del>-</del>				_				
GENERAL VT-3				CONJUNCTION				LOWING	CHANGES	TO		
				RE NOTED (SEE	SUPPLEN		•					
Results:	Accept	_	ject 🗌	Eval 🔽		NCR						
Percent Of Cove	rage Ob	tained > 90%	<b>:</b>	N/A		Reviewed P	revious	B Data:	Y(	*\$ 		
Examiner Lo	evel III		Signature	Dat	e Review	er		Λ	Signature			Date
Komara, Bernai	rd P.	B.P. Kon		11/5/200				40		,	11.14	·• 🤈
	evel p		Signature		e Site Re		N	$\mathcal{A}_{\mathcal{A}}$	Signature			Pate
Blanc, Marc		-31	Signatura	11/5/200 Dat	<u> </u>	ortmann	4	- N	Signatura		11/22	
N/A	evel N/A	•	Signature	Uai		eview /yatt, ANII		VIAG	Signature		17/11	Date
					1.5	7014 70111	1/5	NAKA			<u> </u>	<u> </u>



Report No.:	VT-07-077					
Page:	2	of	3			

Summary No.: E1.12.0168

Examiner: Komara, Bernard P. BPIC

Level: III

Level: N/A

Reviewer: Joe Lese, PE

Date: 1.14.07

Examiner: LeBlanc, Marc J.
Other: N/A

Marc J. \_\_MJL

Level: ||

Site Review: Rick Portmann
ANII Review: Wyatt, Thomas W.

Date: 11/22/07

Date: // [/

#### Comments:

Penetrations associated with Plate: PEN-314, PEN-318, PEN-319, PEN-321, PEN-322, PEN-327, PEN-328, PEN-333, PEN-336, PEN-337, PEN-340, PEN-341, PEN-342, PEN-343, PEN-344, PEN-349, PEN-358, PEN-358, PEN-359, PEN-360, PEN-361, PEN-366, PEN-367, PEN-368, PEN-369, PEN-370, PEN-371, PEN-374, PEN-376
Liners associated with Plate: RBLN-3006



Report No.:	VT-07-077					
Page:	3	of	3			

Summary No.: E1.12.0168

BPIL Examiner: Komara, Bernard P.

Level: Ш Reviewer: Joe Lese, PE

MJL Examiner: LeBlanc, Marc J.

II Level:

NA

Site Review: Rick Portmann

Date:

Other: N/A

Level:

ANII Review: Wyatt, Thomas W.

Comments:

ADDITIONAL REFERENCING PROCEDURE; NAP-02, REV. 2.

Item #1 (Reference Page 1 - Condition 01, 05, 06, 16): Rust, chipping, wear. (See VT-1 Report 07-202)

Item #2 (Reference Page 1 - Condition 10): Discoloration. (See VT-1 Report 07-202).

Item #3 (Reference Page 1 - Condition 11, 20): Other - survey markers on liner. (See VT-1 Report 07-202).

Item #4 (Reference Page 1 - Condition 11, 20): Other - tape on liner. (See VT-1 Report 07-202).

Inaccessible Areas:

None



Site/Unit:	CR3	1 3	3	Proc	edure:	NDEP-0	620	<u> </u>	utage No.:	RF	015-IW	<u>E</u>
Summary No.:	E	1.12.0168		Procedure	Rev.:	2		F	leport No.:		T-07-202	2
Workscope:		ISI		Work Ord	er No.:	68104	3		Page:	1	of _	3
Code: ASME 199	2 Ed. Th	ru 92 Ad.	Cat/l	tem: E-A/	E1.12	Location:			RB-95'-11	9'		
Drawing No.:	S-5	525-004		Descripti	on: RB Wa	II Liner Plat	e - 180°	to 270°	,			
System ID: MC				_	<u> </u>							
Component ID: RBL	P-3002											
'		ALL ACCE	SSIBLE	AREAS								
Resolution: 1/32	" Line				Surfac	e Condition:	As Fo	ound				
Visual Equipment/A	ids: Flas	hlight, 6"	Scale, E									
Inspected From:		e Containn			ide Contain			Both ()				
Light Meter Mfg.:		Lighting	_	Serial No.:	0699 (	TI-3375)		Illuminat	tion:	> 2	00ftc	
	·				1600	/	 N/A	_	Cal Out 🗹		1730	
Light Verification Tir				<u> </u>	1000	— <i>'</i> —	IVA	<del></del> '	Cal Out 🛂		1730	
Visual Examination:		Direct/Rem		<u> </u>			· · · · · · · · · · · · · · · · · · ·					
			,	Vent System O								
Coated Areas	X	1		See	Non	-Coated Area	as X				Se	•
	Accept	Reject	N/A	Comments	•			Accept	Reject	N/A	Comn	
,						•						
1) Rust				<b>X</b> .	12) Brok	en Welds				X	•	
2) Flaking	_	_	<u>_</u>		•	ing of Liner		_		X	· -	_
3) Blistering	_	_	<u>x</u>	_	14) Pittir	_		_	_	<u>x</u>		_
4) Peeling	_	_	<u>x</u>	_	15) Exce	essive Corro	sion	_		X	· <u> </u>	_
5) Chipping			•	X	16) Wea	ır		_	·	_	X	_
6) Wear			_	<b>X</b>	17) ARC	Strikes		· _	·	X	_	_
7) Checking		_	X		18) Deni	ts		_		X		_
8) Cracking	_	_	<b>X</b> ,	_	19) Surf	ace Disconti	nuities	_		X	_	_
9) Gouges		_	X		20) Othe	or			_	_	X.	_
10) Discoloration		_	_	X			·					
11) Other		_	_	X			•					
Comments:												
SEE SUPPLEMEN	TAL REP	ORT										
Results:	ccept [	) Reje	ect 🗀	Eval 🐼	i	NCR #	2.57	242				
Percent Of Coverage			. —	NA		Reviewed			Y	38	<u> </u>	
									<del></del>			
Examiner Leve		A	ignature		ate Review			<b>1</b> A	Signature			Date
Komara, Bernard I			ignature		ate Site Re	se, PE		6 4 U	Signature		11.14	Date
Blanc, Marc J.	・" ェ	32	-griatule	11/5/20	1	ortmann	8	The i	12 1		ulzz	
	1 N/A	S	ignature	·	ate ANII R		41	del m	Signature			Date
N/A					Tom W	/yatt, ANII		VDB)		. 6.	2/1/97	7



Report No.:	VT-07-202					
Page:	2	of	3			

Summary No.: E1.12.0168

Examiner: Komara, Bernard P.

Level:

Reviewer: Joe Lese, PE

Examiner: LeBlanc, Marc J.

Ш Level: 11 N/A

Site Review: Rick Portmann

Other: N/A

Level:

ANII Review: Tom Wyatt, ANII

Comments:

**ADDITIONAL REFERENCING PROCEDURE; NAP-02, REV. 2.** 

AZ: 180 - 270

Item #1 (Reference Page 1 - Condition 01, 05, 06, 16): Approximate Elevation 95' - 119'. Approximate Azimuth 180 - 270 Degrees. Multiple areas of rust. (See VT-3 Report 07-077). VT-1 determined that wastage corrosion has not occurred in the areas identified. The rust is a result of failure of the liner coating primarily due to mechanical impact (chipping) and abrasion (wear). Most areas are 1/2" - 2" in area or diameter.

Item #2 (Reference Page 1 - Condition 10): Approximate Elevation 107' - 119'. Approximate Azimuth 235 - 255 Degrees. Discoloration. (See VT-3 Report 07-077). VT-1 determined that degradation to the liner or coating has not occurred in the area identified. Discoloration appears to be due to previous spillage. VT-07-102 

Item #3 (Reference Page 1 - Condition 11, 20): Approximate Elevation 105' and 115'. Approximate Azimuth 165 - 190 Degrees. Other - survey markers on liner (multiple locations). (See VT-3 Report 07-077). VT-1 determined that degradation has not occurred adjacent to the areas identified. Marker sizes vary in diameter.

tem #4 (Reference Page 1 -- Condition 11, 20): Approximate Elevation 117'. Approximate Azimuth 200 Degrees. Other - tape on liner (2 locations; above Penetrations 369 and 371). (See VT-3 Report 07-077), VT-1 determined that degradation has not occurred adjacent to the areas identified. Each piece of tape is approximately 6" L X 3" W.





Report No.: VT-07-202

Page: 3 of

Summary No.: E1.12.0168

Sketch or Photo: L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-202.JPG



### Nuclea: Generat on Group

Site/Unit: _	CR3	<u>/</u>	3	Proc	edure:	NDEP-0	520	<u> </u>	utage No.:	RF	015-IWE
Summary No.:	E	1.12.0169		Procedure	e Rev.:	2		A	leport No.:		r-07-078
Workscope:		ISI	·	Work Ord	er No.:	68104	3		Page:	1	of 2
Code: ASME 199	2 Ed. Th	ru 92 Ad.	Cat./	tem: <b>E-A</b> /	E1.12	Location:			RB-119'-1	<del></del>	
Drawing No.:	S-5	25-004		Descripti	ion: RB Wa	il Liner Plate	- 180°	to 270°			
System ID: MC				<del>-</del>			_				
Component ID: RBL	.P-3003										
•		LL ACCE	SSIBLE	AREAS			·				
Resolution: 1/32	* Line				Surfac	e Condition:	As Fo	und		<del></del>	
Visual Equipment/A	ids: Flas	hlight, 6"	Scale, E	linoculars, Tap	e Measure	, Spotlight.			_		
Inspected From:	Inside	- Contain	ment 💿	Outs	ide Contain	ment ()		Both ()	_		
Light Meter Mfg.:	GE	Lighting		Serial No.:	0699 (	T1-3375)		Illuminat	tion:	> 2	00ftc
Light Verification Til				o /	1300		1400		Cal Out 🗹		1650
_				<u> </u>		`		·	ou. ou. <u>w</u>		
Visual Examination:	-	Direct/Rer		<del>-</del>				·			
			1	Vent System O							
Coated Areas	<b>X</b>			See	Non	Coated Area	ıs X				See
	Accept	Reject	N/A	Comments				Accept	Reject	N/A	Comments
_											
1) Rust		X			12) Brok	en Welds		<b>X</b> .			
2) Flaking	X	_	_	_	13) Bulg	ing of Liner		_	X	_	_
3) Blistering	_	X	_	_	14) Pittir	ng		<b>.X</b> .		_	
4) Peeling	<u>.X.</u>	_	_	-	15) Exce	essive Corros	sion	X			, <u> </u>
5) Chipping	_	<b>X</b>			16) Wea	ır			<b>X</b> .	_	_
6) Wear	. — '	X	_	· —	17) ARC	Strikes		X		_	_
7) Checking	X	_		_	18) Deni			X		_	_
8) Cracking	X	_	_			ace Discontin	uities	X	. —		
9) Gouges	X		_	_	20) Othe	er			<del>-</del>	_	<b>X</b> .
10) Discoloration	_	X		<del>_</del>							
11) Other				<u>X</u>							
Comments:											
ADDITIONAL REFI					2. THE FOL	LOWING CH	IANGES	S TO PRE	EVIOUS IDI	ENTIF	ED
	Cocept [		ect 🗌	Eval 🗸		NCE #	257	242			
Percent Of Coverag	je Obtain	ed > 90%:		N/A	_	Reviewed F			Y	)s	
Examiner Leve	1 111	9	ignature	<u> </u>	ate Review	et -	1		Signature		Date
Komara, Bernard		a	-	11/12/20	- 11 .	1 1	OX	•	1	2.0	
Examiner Leve			ignature	D	ate Site Re		) [		Signature		Date
AVA					10	5-1-1X	$\sim 1$	Rick	Pogram	<u> ww</u>	11/27/07
	I NA	S	Signature	D	ate ANII R	eview Jr	dit.	A T	Signature		Date
N/A						<u> </u>		<u>V 1.0</u>	W.WYA	<u>//</u>	12/1/07



						Report No.:		-07-078
					•	Page:	2	of <u>2</u>
Summary No.:	E1.12.0169							
Examiner:	Komara, Bernard P. BPIC	Level:		Reviewer	beh. lose	did	Date:	11.52.0)
Examiner:	N/A	Level:	N/A	Site Review:	RICK POETMA	Ve OIP	Date:	4/2267
Other:	NA	Level:	N/A	ANII Review:	T.W.W A		Date:	12/1/07

#### Comments:

Penetrations associated with Plate: PEN-301, PEN-302, PEN-303, PEN-304, PEN-305, PEN-306, PEN-307, PEN-308, PEN-309, PEN-315, PEN-316, PEN-317, PEN-320, PEN-323, PEN-324, PEN-325, PEN-326, PEN-329, PEN-330, PEN-331, PEN-332, PEN-334, PEN-338, PEN-347, PEN-348, PEN-350, PEN-351, PEN-352, PEN-354, PEN-355, PEN-356, PEN-357, PEN-362, PEN-363, PEN-364, PEN-365, PEN-372, PEN-373, PEN-375, PEN-377

Liners associated with Plate: RBLN-3001, RBLN-3002, RBLN-3003, RBLN-3004, RBLN-3005, RBLN-3007, RBLN-3008, RBLN-3009, RBLN-3010, RBLN-3011, RBLN-3012.

Item #1 (Reference Page 1 - Condition 01, 05, 06, 16): Rust, chipping, wear. (See VT-1 Report VT-07-309)

Item #2 (Reference Page 1 - Condition 03): Blistering coatings. (See VT-1 Report VT-07-309).

Item #3 (Reference Page 1 - Condition 13). Bulging of liner. (See VT-1 Report VT-07-309)

Item #4 (Reference Page 1 - Condition 13). Bulging of liner. (See VT-1 Report VT-07-309)

Item #5 (Reference Page 1 - Condition 13). Bulging of liner. (See VT-1 Report VT-07-309)

Item #6 (Reference Page 1 - Condition 10): Discoloration. (See VT-1 Report VT-07-309).

Inaccessible Areas:

-None

# Nuclear Generation Group

Site/Unit: _	CH3		3	Proc	eaure:	NDEP-U	520		utage No.:	H	-015-IWE
Summary No.:		E1.12.0169	) 	Procedure	e Rev.:	2		R	leport No.:		T-07-309
Workscope:		ISI		Work Orde	er No.:	68104	3	·	Page:	1	of 2
Code: ASME 19	92 Ed. T	hru 92 Ad.	Cat./It	em: <b>E-A/</b> I	E1.12	Location:			RB-119'-1	<b>20</b> .	
Drawing No.:	s	-525-004		Description	on: RB Wa	all Liner Plate	e - 180°	to 270°			
System ID: MC			,						= '		,
Component ID: RB	LP-3003	<del></del> ;									
		ALL ACCI	ESSIBLE A	AREAS	·						
Resolution: 1/32	Line				Surfa	ce Condition:	As Fo	und			
Visual Equipment/A	vids: Fla	shlight, 6'	Scale, Bi	noculars, Tap	e Measure	, Spotlight.					
Inspected From:	Insi	de Contain	ment 💿	Outsi	ide Contain	ment ()		Both ()			
Light Meter Mfg.:	G	E Lighting		Serial No.:	0699	(TI-3375)		Illuminat	ion:	> 2	200ftc
Light Verification Ti		Cal In 🕢	1000	, –	1300	,	 1400	(	Cal Out 🚱		1650
<del>-</del>				·		<u> </u>		<del></del> `			
Visual Examination		Direct/Re								_	
			V	ent System Or							
Coated Areas	X			₹ See	NOF	-Coated Area	is 🗶				See
	Accep	t Reject	N/A	Comments				Accept	Reject	NA	Comments
1) Rust	_		_	X	12) Bro	ken Welds				X	
2) Flaking	_		X	_	13) Bulg	ging of Liner			_	_	<b>X</b> .
3) Blistering			<u> </u>	X	14) Pitti	•			. —	X	٠ ـــ
4) Peeling	_	_	<b>X</b>	_		essive Corros	ion	-		X	
5) Chipping	.—		_	<b>X</b>	16) We				. —		<b>X</b> .
6) Wear		_		X	·	C Strikes			_	X	_
7) Checking	_	_	<u>X</u>	-	18) Den			_	_	X	_
8) Cracking 9) Gouges	_	_	X	_	20) Oth	lace Discontir	iuilles		_	X	· —
10) Discoloration			•	<u>_</u>	20) Оп	<b>5</b> 1		_	_	_	<b>A</b>
11) Other	_	_	_	X							•
·		· <u>-</u>			<del>.</del>	<del></del>					
Comments: SEE SUPPLEMEN	TAL RE	PORT		•							
			·	<b>.</b>							,
	Accept (		ect []	Eval 🔽		JCR# Z					
Percent Of Covera	ge Obtai	ned > 90%	: <u>=</u>	N/A		Reviewed F	revious	Data:	Ye	:\$	
4	el III	- ^ 1	Signature		ate Revieu			Λ	Signature		Date
Komara, Bernard			donace		<u>. 199</u>	d.lere		A)	1. H		422.07
	N/A	•	Signature	Da	ate Site R	. ()		7	Signature	,	Date
hor Leve	N/A		Signature	D	Rich ate ANII A	HORTM.	m.4(		Signature	<u></u>	u 22lo7 Date
N/A	·· IVA	`	· 941916		17.6	WYAT	TH		Signature		12/167
L						· /171/			×		



Report No.: **VT-07-309**Page: **2** of **2** 

				·	
Summary No.:	E1.12.0169			v 1 21	
Examiner:	Komara, Bernard P. BPIL	Level:	-111	Reviewer: Joe A. Luste Jos Date: 11-12.00	_
Examiner:	•	Level:	N/A	Site Review: Rick Part more O. 10 Date: 1/22/	27
Other:	N/A	Level:	N/A	ANII Review: TWW TIM Date: 2/157	
				<del></del>	Т

#### Comments:

Item #1 (Reference Page 1 – Condition 01, 05, 06, 16): Approximate Elevation 119' – 160'. Approximate Azimuth 180 – 270 Degrees. Multiple areas of rust. (See VT-3 Report VT-07-078). VT-1 determined that wastage corrosion has not occurred in the areas identified. The rust is a result of failure of the liner coating primarily due to mechanical impact (chipping) and abrasion (wear). Most areas are 1/2" – <2" in area or diameter.

Item #2 (Reference Page 1 ~ Condition 03): Approximate Elevation 150'. Approximate Azimuth 220 Degrees. Blistering coatings. (See VT-3 Report VT-07-078). VT-1 determined that the top coat has deteriorated in an approximate 18" L X 18" W area; however, the primer is intact. No rust or degradation of the liner has occurred.

Item #3 (Reference Page 1 – Condition 13). Approximate Elevation 155'. Approximate Azimuth 210 - 230 Degrees. Bulging of liner. (See VT-3 Report VT-07-078). VT-1 determined that dimensions of eight (8) bulges in the area (when viewed from the 160' elevation) are all approximately 12" L X 12" W. No degradation such as rust or deterioration of the liner was noted.

Item #4 (Reference Page 1 – Condition 13). Approximate Elevation 140' – 155". Approximate Azimuth 235 Degrees. Bulging of liner. (See VT-3 Report VT-07-078). VT-1 determined that dimensions of three (3) bulges in the area (when viewed from the 160' elevation) are all approximately 12" L X 12" W. No degradation such as rust or deterioration of the liner was noted.

m #5 (Reference Page 1 – Condition 13). Approximate Elevation 145' – 150". Approximate Azimuth 240 - 250 Degrees. Sulging of liner. (See VT-3 Report VT-07-078). VT-1 determined that dimensions of six (6) bulges in the area (when viewed from the 160' elevation) are all approximately 12" L X 12" W. No degradation such as rust or deterioration of the liner was noted.

Item #6 (Reference Page 1 – Condition 10): Approximate Elevation 135' – 160'. Approximate Azimuth 255 – 270 Degrees. Discoloration. (See VT-3 Report VT-07-078). VT-1 determined that degradation to the liner or coating has not occurred in the area identified. Discoloration appears to be due to previous spillage.



Code: ASME 1992 Ed. Thru 92 Ad. Cat./Ilem: E-A/E1.12 Location: RB-160°-242′  Drawing No.: S-525-004 Description: RB Wall Liner Plate - 180° to 270°  System ID: MC  Component ID: RBLP-3004  Limitations: EXAMINED ALL ACCESSIBLE AREAS  Resolution: 1/32° Line Surface Condition: As Found  Visual Equipment/Adds: Flashlight, 6° Scale, Binocutars, Tape Measure, Spotlight  Light Meter Mig: GE Lighting Serial No.: 0699 (TI-3375) Illumination: > 200ftc  Light Verification Times: Call n ☑ 1245 / 1530 / N/A Cal Oul ☑ 1800  Visual Examination: Remote  Vent System Or Containment Surfaces  Coated Areas X See  Accept Reject N/A Comments  Accept Reject N/A Comments  1) Rust X	Site/Unit:	CR3	<u> </u>	3	Proce	edure:	NDEP-062	0	Outage No.	RF	O15-IWE
Code: ASME 1992 Ed. Thru 92 Ad. Cat./Item: E-A/E1.12 Location: RB-160°-242′ Drawing No.: S-525-004 Description: RB Wall Liner Plate - 180° to 270° System ID: MC Component ID: RBLP-3004 Initiations: EXAMINED ALL ACCESSIBLE AREAS Resolution: 1/32° Line Surface Condition: As Found Visual Equipment/Aids: Flashlight, 6° Scale, Binoculars, Tape Measure, Spotlight Light Meter Mig.: GE Lighting Serial No.: 0699 (Ti-3375) Itlumination: > 200ftc Light Venification Times: Cal In ☑ 1245 / 1530 / NVA Cal Oul ☑ 1800 Visual Examination: Remote  Vent System Or Containment Surfaces Non-Costed Areas _ Accept Reject N/A Comments  Non-Costed Areas _ Accept Reject N/A Comments  1) Rust	Summary No.:	Ε	1.12.0170	· )	Procedure	Rev.:	2		Report No.	: <u> </u>	T-07-079
Description: RB Wall Liner Plate - 180" to 270"	Workscope:		ISI		Work Orde	er No.:	681043		Page	: 1	of 2
See	ode: ASME 19	92 Ed. Th	ru 92 Ad.	Cat./It	em: E-A/E	E1.12	Location:		RB-160'-	242'	
Description	Drawing No.:	S-:	525-004		Description	on: RB Wall	Liner Plate -	180° to 2	70*		
EXAMINED ALL ACCESSIBLE AREAS  Resolution: 1/32* Line	System ID: MC		-		_						
Imitations:   EXAMINED ALL ACCESSIBLE AREAS		LP-3004									<del></del>
Visual Equipment/Aids: Flashlight, 6° Scale, Binoculars, Tape Measure, Spotlight.  Inspected From: Inside Containment ② Outside Containment ○ Both ○ Light Meter Mig.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: >200ftc  Light Venfication Times: Cal In ☑ 1245 / 1530 / N/A Cal Out ☑ 1800  Visual Examination: Remote  Vent System Or Containment Surfaces  Non-Coated Areas ☑ See  Accept Reject N/A Comments  Accept Reject N/A Comments  1) Rust                           See  Accept Reject N/A Comments  1) Rust			ALL ACC	SSIBLE	AREAS						
Inspected From: Inside Containment ② Outside Containment ② Both ② Itlumination: >200ftc  Light Meter Mig.: GE Lighting Serial No.: 0699 (TI-3375) Itlumination: >200ftc  Light Venification Times: Call In ☑ 1245 / 1530 / N/A Cal Out ☑ 1800  Visual Examination: Remote    Vent System Or Containment Surfaces	Resolution: 1/3:	2" Line				Surface	Condition:	As Found			
Light Meter Mig.: GE Lighting Serial No.: 0699 (TI-3375) Illumination: > 200ftc Light Verification Times: Cal In 2	Visual Equipment/	ids: Flas	hlight, 6°	Scale, B	inoculars, Tap	e Measure,	Spotlight.				
Light Venification Times: Cal In 2 1245 / 1530 / N/A Cal Out 2 1800  Visual Examination: Remote  Vent System Or Containment Surfaces  Coaled Areas	Inspected From:	Insid	e Contain	ment 💿	Outsi	de Containm	ent (	Both	0		
Vent System Or Containment Surfaces	Light Meter Mlg.:	GE	Lighting		Serial No.:	0699 (Т	1-3375)	litur	mination:	> 2	200ftc
Visual Examination: Remote    Vent System Or Containment Surfaces   Non-Coated Areas   See   Accept Reject N/A   Comments   Accept Reject N/A   Accept Reject N/A   Comments   Accept Reject N/A   Accept Reject N/A	Light Verification Ti	mes: Ca	al In 🔽	1245	,	1530	1	 N/A	Cal Out M		1800
Vent System Or Containment Surfaces  Non-Coated Areas	_		_		<del></del>					<i>-</i>	
1)   Rust   X					ent System Or	Containme	nt Surfaces				
1) Rust	Coated Areas	x			-	Non-C	Coated Areas	_			
2) Flaking X		_	Reject	N/A				Acc	æpt Reject	N/A	See Comments
2) Flaking X	1) Ruet	v				12) Broke	n Walds	,	•		
3) Blistering X	•		_		_					_	
4) Peeling X	• -						_			_	_
5) Chipping X	4) Peeling			_	_	15) Exces	sive Corrosio			_	_
7) Checking X	5) Chipping		_		_	16) Wear					_
8) Cracking X	6) Wear	X	_			17) ARC	Strikes	د	K		_
9) Gouges X	7) Checking	X	_			18) Dents	•	د	K _	_	_
10) Discoloration X	8) Cracking	<b>.X</b> .	_		_	19) Surfac	ce Discontinui	ities ]	K _	_	_
Comments:  ADDITIONAL REFERENCING PROCEDURE; NAP-02, REV. 2. PREVIOUS DATA VERIFIED, NO CHANGES NOTED.  Results: Accept Previous Data: Yes  Examiner Level   Signature Date Reviewer Signature Date Site Review Signature Signature Signature Previous Date Site Review Signature Signature Date Rick Portmann Signature Date ANII Review Signature Connect Level N/A Signature Date ANII Review 2016 Signature Date Signature Date ANII Review 2016 Signature Date ANII Review 2016 Signature Date Signature Date Signature Date ANII Review 2016 Signature Date Signa	9). Gouges	X	_			20) Other		_		X	
Comments: ADDITIONAL REFERENCING PROCEDURE; NAP-02, REV. 2. PREVIOUS DATA VERIFIED, NO CHANGES NOTED.  Results: Accept Reject Eval Eval Eval Eval Eval Eval Examiner Level II Signature Date Reviewer Signature Date Site Review Signature Signature Signature Pate Note Previous Data Site Review Rick Portmann Signature Date Rick Portmann Signature Date ANII Review Signature Date ANII Review Rick Portmann Signature Date ANII Review Rick Portmann Signature Date ANII Review Rick Portmann Signature Rick Portmann Si	10) Discoloration	X		_	_	•					
ADDITIONAL REFERENCING PROCEDURE; NAP-02, REV. 2. PREVIOUS DATA VERIFIED, NO CHANGES NOTED.  Rosults: Accept Reject Eval Eval Percent Of Coverage Obtained > 90%: N/A Reviewed Previous Data: Yes  Examiner Level II Signature Date Reviewer Signature Signature Date Reviewer Signature Signature Signature Date Reviewer Signature Signature Signature Date ANII Review Signature Date ANII Review Accept Signature Date ANII Review Accept Signature Signature Signature Signature Signature Date ANII Review Accept Signature	11) Other	_	_	X	_			•			
Examiner Level    Signature Date Reviewer Signature    LeBlanc, Marc J. 11/20/2007 Joe Lese, PE   Consider    Examiner Level    Signature Date Site Review Signature    Signature Date ANII Review 20    Signature Date ANII Review 20	ADDITIONAL REF					. PREVIOUS	S DATA VERI	FIED, NO	CHANGES NO	OTED.	
LeBlanc, Marc J. 11/20/2007 Joe Lese, PE (). Signature Date Site Review Signature Date NII Review 1/2 / C Signature Date ANII Review 7/2 / C Signature Date ANII Review 7/2 / C Signature	Percent Of Covera	ge Obtain	ed > 90%		N/A		Reviewed Pre	evious Dat	a: \	íes .	
LeBlanc, Marc J. 11/20/2007 Joe Lese, PE (). Signature Date Site Review Signature Connier, Jason B. 11/20/2007 Rick Portmann 11/20/2007 Rick Portm	Examiner Levi	9l II	5	Signature	Da	ate Reviewe	er A		Signature	Đ	Date
Sonnier, Jason B.	LeBlanc, Marc J.		sf.					<u> </u>			11.22.07
her Level N/A Signature Date ANII Review 2016 Signature			/h.	Signature				1/2/	Signature		Date
ANA DESCRIPTION DE LA PARIE DE			yvon	Manature:	·			HU,	Signatur		11/22/07 Date
N/A   Tom Wyatt, ANII /// // // // // // // // // // // //	N/A	- NA	•	ngriature	U	I	٠,	MND	AH)	7	12/1/07



Report No.: VT-07-079

Page: 2 of 2

Summary No.: E1.12.0170

Examiner: LeBlanc, Marc J. MTL Level: 11

Reviewer: Joe Lese, PE

Date: (1-22-0)

Examiner: Sonnier, Jason B. JBS

Level: II

Site Review: Rick Portmann

Date: 1/22/6-

Other: N/A

Level: N/A

ANII Review: Tom Wyatt, ANII

Date: 1) ///07

#### Comments:

Liners associated with Plate: RBLN-3013, RBLN-3014, RBLN-3015, RBLN-3016, RBLN-3017, RBLN-3018, RBLN-3019, RBLN-3020, RBLN-3021, RBLN-3022, RBLN-3023, RBLN-3024, RBLN-3025, RBLN-3026, RBLN-3027, RBLN-3028, RBLN-3029, RBLN-3030, RBLN-3031, RBLN-3032, RBLN-3033, RBLN-3034, RBLN-3035, RBLN-3036, RBLN-3037, RBLN-3038, RBLN-3039, RBLN-3040, RBLN-3041, RBLN-3042, RBLN-3043, RBLN-3044, RBLN-3045, RBLN-3046, RBLN-3047, RBLN-3048, RBLN-3049, RBLN-3050, RBLN-3051, RBLN-3052, RBLN-3053, RBLN-3054, RBLN-3055, RBLN-3056, RBLN-3057, RBLN-3058, RBLN-3095, RBLN-3096, RBLN-3097, RBLN-3098, RBLN-3099, RBLN-3100, RBLN-3101, RBLN-3102, RBLN-3103, RBLN-3104, RBLN-3105, RBLN-3106, RBLN-3107, RBLN-3108, RBLN-3109, RBLN-3110, RBLN-3111, RBLN-3112, RBLN-3113, RBLN-3114, RBLN-3115, RBLN-3116, RBLN-3117, RBLN-3118, RBLN-3119, RBLN-3120



awing No.:	E1.12.0171 ISI Ed. Thru 92 Ad.		Procedure Re	ev.:	2	_			
awing No.:  MC	Ed. Thru 92 Ad.				<u> </u>	<u> </u>	Report No.:		T-07-080
awing No.:			Work Order N	lo.: 681	043		Page:	1	of <u>2</u>
stem ID: MC		Cat./Item:	E-A/E1.1	12 Locatio	n:		RB-242'-2	50'	
	S-525-004		Description:	RB Wall Liner P	late - 180°	to 270°	Crane Rui	naway	Supt Galle
			•		-				
mponent ID: RBLP-	3005				-				
	NED ALL ACCE	SSIBLE ARE	EAS						
lesolution: 1/32" L	ine			Surface Condition	n: As Fo	ound			
isual Equipment/Aids	: Flashlight, 6"	Scale, Binor	culars, Tape M	leasure, Spotligh	it				
spected From:	Inside Containn	nent 💿	Outside (	Containment ()		Both ()			
ight Meter Mfg.:	GE Lighting	Se	enal No.:	0699 (TT-3375)		lílumina		<b>~</b> 2	:00ftc
ight Verification Time		1400			 N/A				1630
			′	1500 / _	IVA		Cal Out 🔽		1630
isual Examination:	Direct/Ren		<u> </u>						
		Vent	System Or Co	ontainment Surfa	ces				
Coated Areas	L		See	Non-Coated A	reas 🗶				
Ac	ccept Reject	_	mments	4		Accept	Reject	NA	See Comment
						•	·		
1) Rust	<b>v</b>		1	2) Broken Welds		v			
2) Flaking	X _	_	_	3) Bulging of Line		X.	_	_	
3) Blistering	X			4) Pitting	-	X			-
4) Peeling	X _	_	<del></del>	5) Excessive Con	rosion	X			_
5) Chipping	<u>x</u> _		<del></del>	6) Wear		X	_	_	<del></del>
6) Wear		_		7) ARC Strikes		X		_	_
7) Checking	<u>x</u> _		1	8) Dents		$\overline{\mathbf{x}}$	_		_
8) Cracking	X	_	1	9) Surface Discor	ntinuities	<u>x</u>		_	
9) Gouges	<b>X</b>	_	2	0) Other				<u>x</u>	
0) Discoloration	<b>x</b> _	_	_						
11) Other		X	_						



Report No.:	VT-07-080					
Page:		of	2			

Summary No.: E1.12.0171

Examiner: Komara, Bernard P.

Level:

Reviewer: Joe Lese, PE

Date:

Examiner: Duplechain, Lenus F.

II Level:

Site Review: Rick Portmann

Date:

Other: N/A

N/A Level:

ANII Review: Tom Wyatt, ANII

#### Comments:

Liners associated with Plate: RBLN-3059, RBLN-3060, RBLN-3061, RBLN-3062, RBLN-3063, RBLN-3064, RBLN-3065, RBLN-3066, RBLN-3067, RBLN-3068, RBLN-3069, RBLN-3070, RBLN-3071, RBLN-3072, RBLN-3073, RBLN-3074, RBLN-3075, RBLN-3076, RBLN-3077, RBLN-3078, RBLN-3079, RBLN-3080, RBLN-3081, RBLN-3082, RBLN-3083, RBLN-3084, RBLN-3085, RBLN-3086, RBLN-3087, RBLN-3088, RBLN-3089, RBLN-3090, RBLN-3091, RBLN-3092, RBLN-3093, RBLN-3094



Site/Unit.	CH3 / 3	·	Procedure	: NUEP-062	<u> </u>	utage No.:	- Kr	O15-IWE
Summary No.:	E1.12.0172		Procedure Rev.	: <b>2</b>	F	Report No.:	V	-07-081-
Workscope:	ISI		Work Order No.	681043		Page:	1	of <b>2</b>
Code: ASME 199	2 Ed. Thru 92 Ad.	Cat/Item:	E-A/E1.12	Location:		RB-250'		
Orawing No.:	S-525-008		Description: R	B Dome Liner Plate	- 180° to 270°	•		
System ID: MC								
Component ID: RBL	P-3006							·
`		COLD E AGE		<del>,</del>				·
Initiations. EAA	MINED ALL ACCES	SOIBLE AREA						
	Line			Surface Condition: A	\s Found			
Visual Equipment/Ai	ds: Flashlight, 6"	Scale, Binocı	ulars, Tape Mea	sure, Spotlight.				
Inspected From:	Inside Containm	ent	Outside Co	ntainment (	Both ()			
Light Meter Mfg.:	GE Lighting	Seri	ial No.:0	699 (TI-3375)	Illumina(	ion:	> 2	00ftc
Light Verification Tin	nes: Cal In 🕢	1400	/ 15	00 /	NA (	Cal Out 🗹		1630
Visual Examination:	Direct/Rem	ote .		<del></del>				
			2:-4- 2 2					
• • • •		vent	system Or Con	tainment Surfaces				
Coated Areas	X	S	iee	Non-Coated Areas	<b>T</b>			See
	Accept Reject	N/A Com	ıments		Accept	Reject	N/A	Comments
1) Rust			<u>X</u> 12)	Broken Welds	x			
2) Flaking	<u> </u>		•	Bulging of Liner	X	_	_	<del></del>
3) Blistering	<u>x</u> _	-		Pitting	X	_	_	
4) Peeling	<u>x</u> _			Excessive Corrosion				· <del>-</del>
5) Chipping	<u>x</u> _		16)	Wear	<u>x</u>			
6) Wear	<b>x</b> _		17)	ARC Strikes	X	_		_
7) Checking	<u>x</u> _		18)	Dents	X	_		_
8) Cracking	<u>x</u> · <u>_</u>		19)	Surface Discontinuit		_		_
9) Gouges	<u>x</u> _		<u> </u>	Other	_	_	_	<u>X</u>
10) Discoloration	<u> </u>		X.					
11) Other			X.			,		
Comments:	<del>-                                    </del>				<del></del>			
ADDITIONAL REFE	RENCING PROCE	DURE; NAP-0	2, REV 2. NO (	CHANGE NOTED FR	OM PREVIOU	S DATA, TA	APE/S	URVEY
MARKERS REMAIN Results: A	i AFFIXED IN PLAC ccept [√] Rejed		TH ~265° Eval [7]					
		ليب	_					
Percent Of Coverage	e Obtained > 90%:	N/A		Reviewed Pre	vious Data:	Yes	3	
Examiner Level	III Sid	nature	Date R	eviewer		Signature		Date
Komara, Bernard P	001	omara	l l	oe Lese, PE	La	She		1/23.07
Examiner Level	11 /39	nature	Date S	ite Review	رزيك	Signature		Date
plechain, Lenus		1_		ick Portmann	X+ N		_1	123 07
ther Level	NA Sig	nature		NII Review	TUHILS	Signature	•	Date
N/A	·			om Wyatt, ANII	'["[[K/]]]	<u>υ</u> _		12/1/01



Report No.:	VT-07-081

Page: 2

Summary No.: **£1.12.0172** 

Examiner: Komara, Bernard P.

Level: Ш

H

N/A

Reviewer: Joe Lese, PE

Date:

Examiner: Duplechain, Lenus F.

Level:

Site Review: Rick Portmann

Date:

Other: N/A

Level:

ANII Review: Tom Wyatt, ANII

Date:

### Comments:

Liners associated with Plate: RBLN-3500, RBLN-3501, RBLN-3502, RBLN-3503, RBLN-3504, RBLN-3505, RBLN-3506, RBLN-3507, RBLN-3508, RBLN-3509, RBLN-3510, RBLN-3511, RBLN-3512, RBLN-3513, RBLN-3514, RBLN-3515, RBLN-3516, RBLN-3517, RBLN-3518, RBLN-3519, RBLN-3520, RBLN-3521, RBLN-3522, RBLN-3523, RBLN-3524, RBLN-3525, RBLN-3526, RBLN-3527, RBLN-3528, RBLN-3529, RBLN-3530, RBLN-3531, RBLN-3532, RBLN-3533, RBLN-3534, RBLN-3535, ABLN-3536, RBLN-3537, RBLN-3538, RBLN-3539, RBLN-3540, RBLN-3541, RBLN-3542, RBLN-3543, RBLN-3544, RBLN-3545, RBLN-3546, RBLN-3547, RBLN-3548, RBLN-3549, RBLN-3550, RBLN-3551, RBLN-3552, RBLN-3553, RBLN-3554, RBLN-3555, RBLN-3556, RBLN-3557, RBLN-3558, RBLN-3559, RBLN-3560, RBLN-3561, RBLN-3562, RBLN-3563, RBLN-3564, RBLN-3565, RBLN-3566, RBLN-3567, RBLN-3568, RBLN-3569, RBLN-3570, RBLN-3571, RBLN-3572, RBLN-3573, RBLN-3574, RBLN-3575, RBLN-3576, RBLN-3577, RBLN-3578, RBLN-3579, RBLN-3580, RBLN-3581, RBLN-3582, RBLN-3583, RBLN-3584, RBLN-3585



Site/Unit:	CR3_	<u>/</u>	3	. Proc	edure:	NDEP-0	520	O	utage No.:	RF	-015-IWE
Summary No.:	<u>E</u>	1.12.0173	<u> </u>	Procedure	e Rev.:	2		R	eport No.:	<u>v</u>	T-07-082
Workscope:		ISI		Work Ord	er No.:	68104	3		Page:	1	of
Code: ASME 199	2 Ed. Th	ru 92 Ad.	Cat./	item: E-A/	E1.12	Location:			RB EL 93	٠٠٠.	
Orawing No.:	S-!	525-001		Descripti	on: Basem	ent Liner Er	nbedde	d in 24"	Concrete		
System ID: MC											
Component ID: RBI	P-4001				<u> </u>						
Imitations: REI	ER TO S	UPPLEM	ENTAL F	REPORT FOR L	IMITATION	s					
Resolution: 1/32	' Line				Surfac	e Condition:	WIPE	D AS NEI	DED		
Visual Equipment/A	ids: Flas	hlight, 6'	Scale, 1	ape Measure,	Spotlight.						
Inspected From:	Insid	e Contain	ment 💿	Outs	ide Containr	ment ()		Both ()			
Light Meter Mfg.:	GE	Lighting		Serial No.:	0699 (	TI-3375)		Illuminat	ion:	> 2	200ftc
Light Verification Ti				_	N/A	·	— N/A	,	Cal Out 🔽		1730
		<del></del>		<u> </u>		<del>_</del> · _		······································			
Visual Examination:		Direct/Re		<u> </u>							
				Vent System O							
Coated Areas	X			See	Non-	Coated Area	s X				See
	Accept	Reject	N/A	Comments				Accept	Reject	NA	Comm
1) Rust			<b>X</b> .		12) Brok	en Welds				<b>. X</b>	
2) Flaking	_	_	X		-	ing of Liner			_	X	_
3) Blistering			<u>x</u>	_	14) Pittir	ng		_	_	X	_
4) Peeling	_		X	_	15) Exce	ssive Corros	ion			X	·
5) Chipping		_	<b>X</b> .	_	16) Wea	r		_		X	_
6) Wear	· —		<u>X</u>	_	17) ARC			_	_	X	-
7) Checking	_	_	X	-	18) Dent			_	_	X	
8) Cracking	_		<b>.X</b> .		•	ace Discontir	uities	_		X	
9) Gouges	_	_	<u>X</u>		20) Othe	er .			_	_	X
10) Discoloration	_	_	X	<del></del>							
11) Other				X							
Comments:  ADDITIONAL REF SUPPLEMENTAL						GES NOTE	FROM	PREVIO	US DATA	. SEE	
	locept 😥		ject 🗌	Eval []							
Percent Of Coverage			- :	N/A		Reviewed f	Previous	Data:	Υ.	es	
Examiner Leve	1 111		Signature	Ŋ	ate Review	rer			Signature		
Komara, Bernard		3.P. U						10			11.25.
Examiner Leve			Signature		ate Site Re		7	J.	Signature	,	, 9
AVA	<del></del>					ortmann	_6	<u> </u>	<u> </u>		HIZEL
her Leve	NA P	9	Signature	D	ate ANII Re		THE	MARI	Signature	I.	11/6
N/A					I I OM W	/yatt, ANII					12/1/07



-					rep	OR NO.:	V14	07-062	
						Page:	2	of <u>2</u>	
Summary No.:	E1.12.0173				. (				
Examiner:	Komara, Bernard P. BPK	Level:		Reviewer:	Joe Lese, PE	' 	Date: \	25.0)	
Examiner:	N/A	Level:	N/A	Site Review:	Rick Portmano	1	Date:	11/26/07	•
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	MAR	Date:	12/1/07	
						<del>-/</del>			

Comments:

### **Not Accessible**

Inaccessible Areas: (Comments for RBLP-4001)

•The base containment liner plate is covered by a two foot (2') thick concrete slab and therefore is inaccessible for VT-3/VT-1 Examination.

Accessible Areas: (Comments for RBLP-4001)

•The accessible concrete surface areas, construction joints, and other slab penetrating mediums were examined for evidence of base plate degradation. None was noted.



Site/Unit: _	CR3	<u> </u>	3	Proc	edure:	NDEP-0	620	0	utage No.:	RF	015-IWE
Summary No.:	E1	.12.0174	<u> ← 4.</u>	Procedure	Rev.:	2		R	leport No.:	<u>v</u>	T-07-083
Workscope:		ISI		Work Orde	er No.:	68104	3		Page:	1	of <u>2</u>
Code: ASME 199	2 Ed. Thr	u 92 Ad.	Cat./It	em: E-A/I	E1.12	Location:			RB-95'-11	13.	
Drawing No.:	S-5	25-005		Description	on: RB Wal	I Liner Plate	e - 270°	to 360°			
System ID: MC	=										-
Component ID: ABI	P-4002	· · · · · · · · · · · · · · · · · · ·									
<del></del>	MINED A	LL ACCE	SSIBLE	AREAS							
Resolution: 1/32	" Line				Surface	e Condition:	As Fo	und			
Visual Equipment/A	ids: Flas	hlight, 6°	Scale, B	noculars, Tap	e Measure,	Spotlight.					
Inspected From:	Inside	Containr	nent 🕞	Outsi	ide Containn	nent ()	_	Both (			
Light Meter Mfg.:	GE	Lighting		Serial No.:	0699 (1	rı-3375)		Illuminat	ion:	> 2	100ftc
Light Verification Ti	*		1350	· / —	1600	1	 N/A	(	Cal Out 🐼		1730
Visual Examination		irect/Ren				<del>-</del>					
Visual Examination		ITOCUMEN							<u> </u>		
			٧	ent System O					•		
Coated Areas	Accept	Reject	N/A	See Comments	MOII-	Coated Area	.s <u>.a.</u>	Accept	Reject	N/A	See Comments
1) Rust		v			. 12) Broke	en Welds		v			
2) Flaking		X.	_	_		ng of Liner		X	_	_	_
3) Blistering	X	_	_	_	14) Pittin	_		_	_	_	X
4) Peeling		X	_	_	15) Exce	ssive Corros	ion		X		_
5) Chipping	_	X	— .	_	16) Wea	r			<u>X</u>	_	_
6) Wear	_	X	_	_	17) ARC	Strikes		<b>X</b> .		_	_
7) Checking	X	_	_	_	18) Dent			X.		_	
8) Cracking	X	_	_		•	ice Discontir	nuities	<u>.X.</u>	. <del>_</del>	_	
9) Gouges	X				20) Othe	r		_	X	_	_
10) Discoloration 11) Other		X	_								
Comments:						·	<del></del>		·		,
ADDITIONAL REF					2. THE FOL	LOWING CI	HANGE	S TO PRI	EVIOUSLY	IDEN	NFIED
	Accept [		ect [	Eval 🗸		JCR#	257	242			
Percent Of Covera	ge Obtaine	ed > 90%:		NA		Reviewed F			Y	<b>0</b> 3	_
Examiner Leve	1 10	,S	ignature	D	ate Review	er er			\$ignature		Date
Komara, Bernard	-	A //	nan					la.	Han.		11.1607
Examiner Leve	1 11	JES	ignature	D: 11/5/20	ate Site Re		-	J, 1	agnature		Date
	NA NA	S	ignature		ate ANII Re		<u> </u>	111	Signature		11   22   07 Date
N/A					1	yatt, ANII	7/	Mex	U		12/167



<b>—</b> -							Report No.:	VT	-07-083
							Page:	2	of 2
Summary No.:	E1.12.0174								
Examiner:	Komara, Bernard P.	BPIL	Level:	101	Reviewer:	Joe Lese, PE	lose	Date:	11.15.07
Examiner:	LeBlanc, Marc J.	MSC	Level:	- 11	Site Review:	Rick Portmann	9.A.	Date:	utorlas
Other:	N/A		Level:	N/A	ANII Review:	Tom Wyatt, ANII	AN	Date:	12/1/07

### Comments:

Penetrations associated with Plate: PEN-413, PEN-414, PEN-415, PEN-416, PEN-424, PEN-425, PEN-426, PEN-427, PEN-429, PEN-430, PEN-434, PEN-435, PEN-439, PEN-440, PEN-441, PEN-442.

AZ 270 - 360

Item #1 (Reference Page 1 - Condition 01, 02): Rust, flaking. (See VT-1 Report 07-211)
Item #2 (Reference Page 1 - Condition 01): Rust. (See VT-1 Report 07-211)
Item #3 (Reference Page 1 - Condition 04): Peeling. (See VT-1 Report 07-211)
Item #4 (Reference Page 1 - Condition 04): Peeling. (See VT-1 Report 07-211)
Item #5 (Reference Page 1 - Condition 01, 05, 06, 16): Rust, chipping, wear. (See VT-1 Report 07-211)
Item #6 (Reference Page 1 - Condition 10): Discolaration. (See VT-1 Report 07-211)
Item #7 (Reference Page 1 - Condition 11, 20): Other - Tape. (See VT-1 Report 07-211)
Item #8 (Reference Page 1 - Condition 15): Excessive corrosion. (See VT-1 Report 07-211)
Item #10 (Reference Page 1 - Condition 15): Excessive corrosion. (See VT-1 Report 07-211)

### inaccessible Areas:

Approximate Azimuth 280 – 310 Degrees: Rattle Trap Area behind shield wall (fuel transfer canal) outside parameters for VT-VT-1.

- •Approximate Azimuth 350 Degrees: Area behind cable tray outside parameters for VT-3/VT-1.
- Approximate Azimuth 360/0 Degrees: Area behind HVAC duct work outside parameters for VT-3/VT-1.



Site/Unit: _	CR3	/ 3		Proce	edure:	NDEP-06	20	<u> </u>	ıtage No.:	RF	O15-IWE
Summary No.:	E	1.12.0174	·	Procedure	Rev.:	2		`R	eport No.:	VI	r-07-211
Workscope:		ISI		Work Orde	er No.:	681043	3	<del></del>	Page:	1	of <u>11</u>
ode: ASME 199	2 Ed. Th	ru 92 Ad.	Cat/Ite	m: E-A/E	1.12	Location:			RB-95'-11	<b>3</b> ,	
rawing No.:	S-:	525-005		Description	on: RB Wa	I Liner Plate	- 270°	to 360°			
System ID: MC								•			
Component ID: RSI	.P-4002									•	
imitations: EX	MINED AL	L ACCES	SIBLE AR	EAS							
Resolution: 1/32	* Line				Surfac	e Condition:	As Fo	ound			
Visual Equipment/A	ids: Flas	hlight, 6°	Scale, Bir	noculars, Tap	e Measure,	Spotlight.					
Inspected From:	Insid	e Containn	nent 💿	Outsi	de Contains	ment (	-	Both (			
Light Meter Mfg.:	GE	Lighting	<u></u>	Serial No.:	0699 (	TI-3375)		Illuminat	ion:	> 2	00ftc
Light Verification Ti	mes: Ca	al In 🔽	1350	,	1600		 N/A	(	Cal Out 🔽		1730
Visual Examination		 Direct/Rem				<del></del>			_		
			Ve	ent System Or	Containm	ent Surfaces		· · · · · · · · · · · · · · · · · · ·			
Coated Areas	x				Non-	Coated Area	s <u>x</u> .				
	Accent	Reject	N/A (	See ' Comments				Accept	Reject	N/A	See Comments
	vccehi	neject	IVA \	Johnnesta	•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	1011	Comment
1) Rust	٠			<b>.</b>	10) Dk	aa liitalda					
2) Flaking		_	<del></del>	X. X	<u>-</u>	en Welds ing of Liner			<del></del>	X	_
3) Blistering		_	<u>_</u>	_	14) Pittir	_			_	_	<u>x</u>
4) Peeling	_			<u>x</u>	•	' <del>s</del> Issive Corros	ion	_	_	_	X
5) Chipping	_	_	_	X	16) Wea						X
6) Wear	_			X	17) ARC			_		$\overline{\mathbf{x}}$	
7) Checking	_		<u>x</u>	Δ.	18) Deni					X	_
8) Cracking	_	_			· ·	ace Discontin	nuitias	_			_
9) Gouges		_	X	_	20) Othe		.0.00	_	_	X	<del>_</del>
10) Discoloration		_	<b>A</b>	<u>_</u>	20, 0	•		_		_	X
11) Other	_	_	_	X				•			
Comments:				<del></del>				<u> </u>			
SEE SUPPLEMEN	TAL REP	PORT									
Results:	Accept [	] Reje	ect []	Eval 🔀		JCR# Z	57 Z	47.			
Percent Of Covera	ge Obtain	ed > 90%:		N/A		Reviewed F			Y		
Examiner Leve	el III	<u> </u>	ignature	<u> </u>	ate Review	/er			Signature		Date
Komara, Bernard		$\Delta II$	usia_	.11/5/20		se, PE		1.0	. [ ]		11.16.07
	el II		ignature		ate Site Re			O'	Signature		Date
eBlanc, Marc J.	1	200		11/5/20	007 Rick P	ortmann	ダ	LTL	1_		1/22/07
	N/A	S	ignature	D	ate ANII R		7,	Ne ils	gignature		Date
NA					Tom V	/yatt, ANII			$W_{\perp}$		12/1/07



Report No.:

VT-07-211

							Page:		of _	11
Summary No.:	E1.12.0174					,	•			
Examiner:	Komara, Bernard P.	BPIL	Level:	#11	Reviewer:	Jak	Jour less	Date:	11.15	.0}
Examiner:	LeBlanc, Marc J.	MSC	Level:	El	Site Review:	Rick Poor	may QIP	Date:	1/8	جياع
Other:	N/A		Level:	N/A	ANII Review:	THU THE	(b)	Date:		

### Comments:

Penetrations associated with Plate: PEN-413, PEN-414, PEN-415, PEN-416, PEN-424, PEN-425, PEN-426, PEN-427, PEN-429, PEN-430, PEN-434, PEN-435, PEN-439, PEN-440, PEN-441, PEN-442.

Item #1 (Reference Page 1 – Condition 01, 02): Approximate Elevation 95' – 119'. Approximate Azimuth 275 Degrees. Rust, flaking, (See VT-3 Report 07-083). VT-1 determined that light to medium general corrosion of the coated liner exists behind the shield wall between the incore room and the new letdown cooler room. Previously, this gap area was packed with foam which has since been removed. The horizontal test channel in this area exhibits medium general corrosion which has resulted in flaking of the paint. The area affected is approximately 14' L X 36" W.

Item #2 (Reference Page 1 – Condition 1): Approximate Elevation 95' – 106'. Approximate Azimuth 309 - 310 Degrees. Rust. (See VT-3 Report 07-083). VT-1 determined that light to medium general corrosion of the coated liner exists behind the shield wall leading into the incore room. Previously, this gap area was packed with foam which has since been removed. The horizontal test channel in this area exhibits medium to heavy general corrosion which has resulted in coating loss. The area affected is approximately 11' L X 36" W.

Item #7 (Reference Page 1 – Condition 11): Approximate Elevation 116'. Approximate Azimuth 278 Degrees. Other – tape on Liner (2 locations). (See VT-3 Report 07-083). VT-1 determined that degradation has not occurred adjacent to the areas entified. Each piece of tape is approximately 18" L X 2" W.

Report No.: VT-07-211 Page:

mmary No.: E1.12.0174

Other: N/A

BPK Examiner: Komara, Bernard P.

Level:

Level:

Reviewer:

ANII Review: Tom Wyatt, ANII

MIL Examiner: LeBlanc, Marc J.

Level:

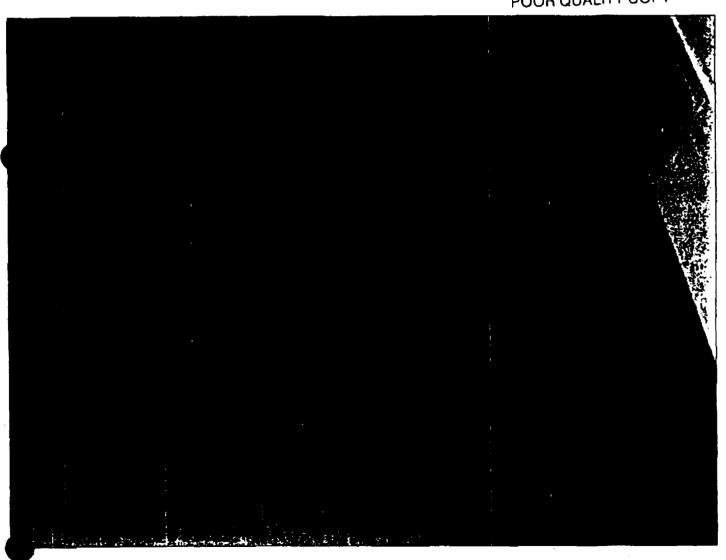
N/A

Site Review: Rick Portmann

Comments: Item #3 (Reference Page 1 - Condition 04): Approximate Elevation 107'. Approximate Azimuth 335 Degrees. Peeling. (See VT-3 Report 07-083). VT-1 determined that in most cases, the top coat has separated from the base coat; whereas in other cases, separation of the coating has exposed bare metal. Light rust has occurred in those locations where base metal has been exposed. No wastage has occurred in these areas.

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Report No.: VT-07-211 Page:

nmary No.: E1.12.0174

BIK Examiner: Komara, Bernard P.

Level: 111 Reviewer: Joe Lese, PE

MJ Examiner: LeBlanc, Marc J.

11 Level:

N/A

Site Review: Rick Portmann

Date: H

Other: N/A

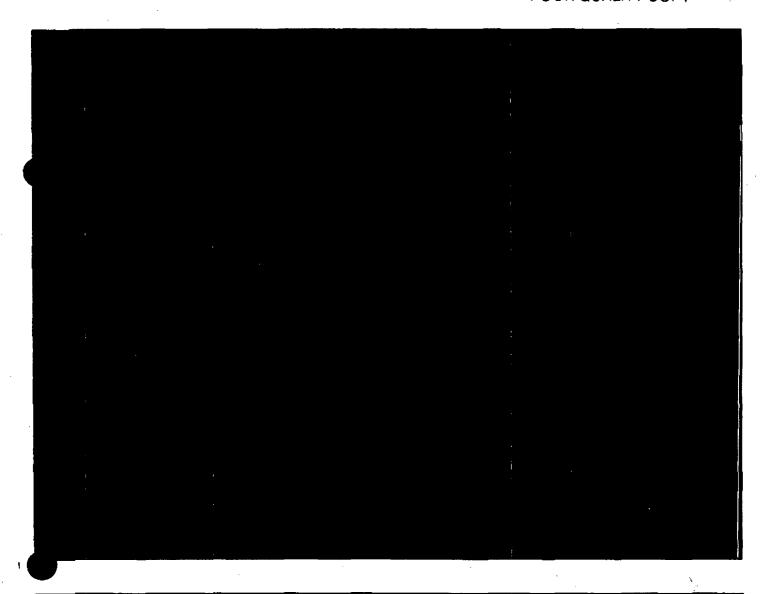
Level:

ANII Review: Tom Wyatt, ANII

Date: [2/1/07

Comments: Item #4 (Reference Page 1 - Condition 04): Approximate Elevation 118'. Approximate Azimuth 295 Degrees. Peeling. (See VT-3 Report 07-083). VT-1 determined that the top and base coats have separated from the liner plate at a horizontal seam weld. Light rust has occurred in those locations where base metal has been exposed. No wastage has occurred in these areas. The area affected is approximately 5' L X 4" W.

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Report No.: VT-07-211 Page: of

ummary No.: E1.12.0174

BPIL Examiner: Komara, Bernard P.

Level: 111 Reviewer: Joe Lese, PE

Date: W. W.

MIC Examiner: LeBlanc, Marc J.

Level:

Site Review: Rick Portmann

Other: N/A

Level: N/A

ANII Review: Tom Wyatt, ANII

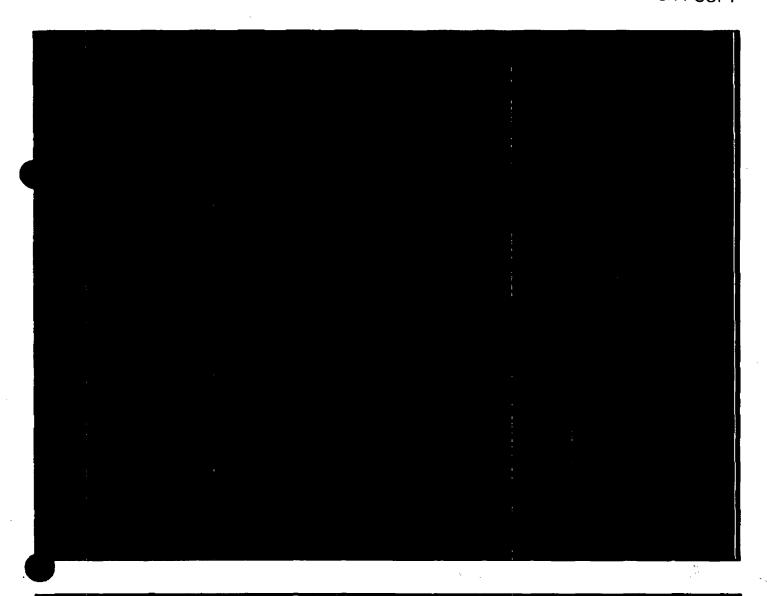
Date: /2//

Comments: Item #5 (Reference Page 1 - Condition 01, 05, 06, 16): Approximate Elevation 95' - 119'. Approximate Azimuth 270 - 360 Degrees. Multiple areas of rust. (See VT-3 Report 07-083). VT-1 determined that wastage corrosion has not occurred in the areas identified. The rust is a result of failure of the liner coating primarily due to mechanical impact (chipping) and abrasion (wear). Most areas are 1/2" - 2" in

area or diameter.

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Report No.: VT-07-211 Page:

ummary No.: E1.12.0174

Other: N/A

Examiner: LeBlanc, Marc J.

BPIL Examiner: Komara, Bernard P.

MJL

Level: Level:

Level:

Ш

N/A

Reviewer: Joe Lese, PE

Site Review: Rick Portmann

ANII Review: Tom Wyatt, ANII

Comments: Item #6 (Reference Page 1 - Condition 10): Approximate Elevation 114' - 119'. Approximate Azimuth 340 -345 Degrees. Discoloration. (See VT-3 Report 07-083). VT-1 determined that degradation to the liner or coating has not occurred in the area identified. Discoloration appears to be due to previous spillage.

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Report No.:	VT	-07-2	11	
Page:	7	of	11	

Summary No.: E1.12	2.01	74
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Examiner: Komara, Bernard P. BPIC

Examiner: LeBlanc, Marc J. MJC

Other: N/A

Level: III

Level: N/A

Level:

<u>---</u>

Reviewer:

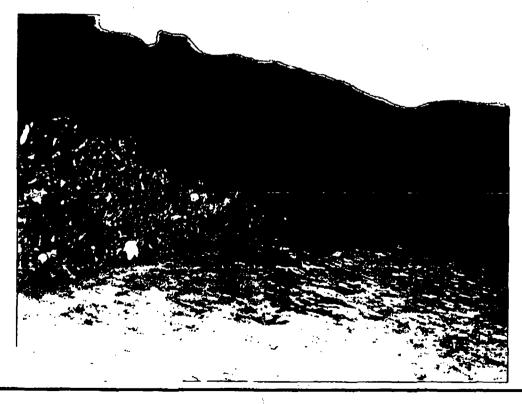
Site Review: \_ ANII Review: Date: 11.16.5

Date: 1/22/69

Date: 4/1-/-07

Comments: Item #8 (Reference Page 1 - Condition 15): Approximate Elevation 95'. Approximate Azimuth 285 Degrees. Excessive corrosion. (See VT-3 Report 07-083). VT-1 determined that medium general corrosion with wastage of the coated liner exists at the moisture barrier to liner interface behind the shield wall between the incore room and the new letdown cooler room. Previously, this gap area was packed with foam which has since been removed. The area affected is approximately 36" L X 36" W. Depth of pits (wastage) was measured at 1/32" maximum with a pit gage.

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Report No.: VT-07-211

Page:

Summary No.: E1.12.0174

Examiner: Komara, Bernard P.

Lovel: Level:

N/A

Reviewer: Site Review:

Date:

Other: N/A

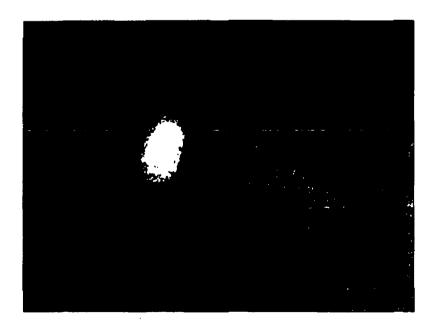
Examiner: LeBlanc, Marc J.

Level:

**ANII Review:** 

Comments: PHOTOS ASSOCIATED WITH ITEM #8.

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Report No.:	<u></u>	07-2	11
D	ο.	-4	44

Summary No.: E1.12.0174

Examiner: Komara, Bernard P. BPIC

Examiner: LeBlanc, Marc J.

Other: N/A

Level: III

Level:

Level: II

Reviewer:

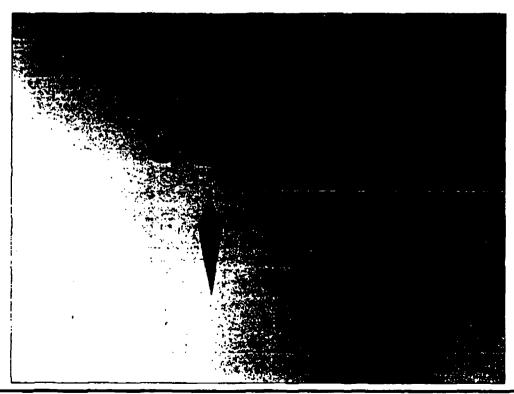
Site Review: ANII Review: 4

Date: (1.15.0)

Date: 11/22/6-

Comments: Item #9 (Reference Page 1 - Condition 15): Approximate Elevation 95'. Approximate Azimuth 310 Degrees. Excessive corrosion. (See VT-3 Report 07-083). VT-1 determined that medium general corrosion with wastage of the coated liner exists at the moisture barrier to liner interface behind the shield wall leading into the incore room. Previously, this gap area was packed with foam which has since been removed. The area affected is approximately 36" L X 36" W. Depth of pits (wastage) was measured at 1/32" maximum with a pit gage.

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Report No.:

VT-07-211

Page:

Summary No.: E1.12.0174

Examiner: Komara, Bernard P.

Level:

Level:

Reviewer: Joe Lese, PE

Date

Other: N/A

Examiner: LeBlanc, Marc J.

Level:

NA

ANII Review: Tom Wyatt, ANII

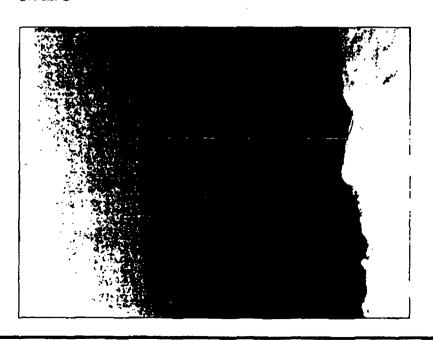
Site Review: Rick Portmann

Date

Comments: PHOTOS ASSOCIATED WITH ITEM #9.

Sketch or Photo: L:\Engineering\Tech Services\\SI IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-211-9.JPG

L:\Engineering\Tech Services\ISI IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-211-10.JPG





POOR QUALITY COPY

Report No.:

VT-07-211

Page:

mmary No.: E1.12.0174

BPIL Examiner: Komara, Bernard P.

Level: Ш Reviewer: Joe Lese, PE Date: \\

Examiner: LeBlanc, Marc J.

MIC Level:

Site Review: Rick Portmann

Other: N/A

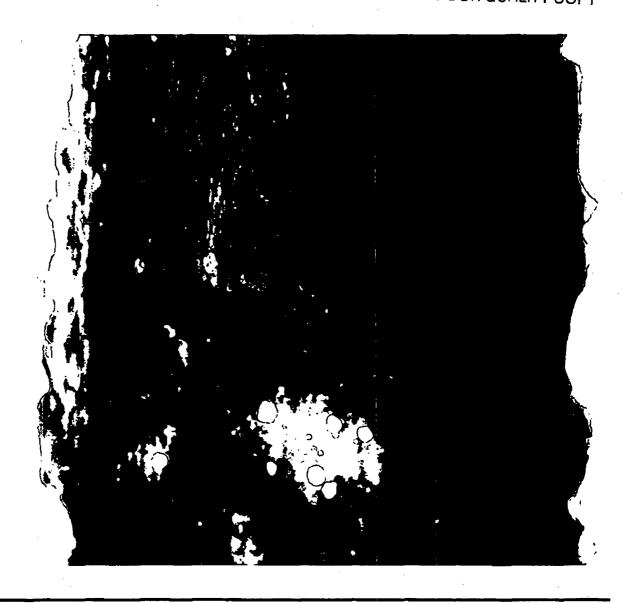
Level: N/A

ANII Review: Tom Wyatt, ANII

Date: 社

Comments: Item #10 (Reference Page 1 - Condition 15): Approximate Elevation 101'. Approximate Azimuth 310' Degrees. Excessive corrosion. (See VT-3 Report 07-083). VT-1 determined that medium to heavy general corrosion with wastage of the test channel exists behind the shield wall leading into the incore room. Previously, this gap area was packed with foam which has since been removed. The area affected is approximately 12" L X 4" W. Depth of pits (wastage) was measured at 1/32" maximum with a pit gage.

Sketch or Photo: L:\Engineering\Tech Services\\SI\IWE & IWL\Photos\2007 R15 IWE Photos\VT-07-211-11.JPG POOR QUALITY COPY





Site/Unit: _	CR3	/	3	Proc	edure:	NDEP-C	<del>)620</del>	_ °	utage No.:	RF	O15-IWE
Summary No.:		1.12.0175	i	Procedure	Rev.:	2		iA	Report No.:		r-07-084
Workscope:		ISI	_	Work Orde	er No.:	68104	43		Page:	1	of <u>2</u>
Code: ASME 199	2 Ed. Th	ru 92 Ad.	Cat./	item: E-A/I	E1.12	Location:			RB-119'-1	<b>60</b> '	
Drawing No.:	S-:	525-005		Description	on: RB Wall	Liner Plat	le - 270°	to 360°			
System ID: MC											
Component ID: RBI	P-4003							-			
Limitations: EXA	MINED /	ALL ACCE	SSIBLE	AREAS							
Resolution: 1/32	* Line				Surface	e Condition	: As Fo	und			
Visual Equipment/A	ids: Flas	ihlight, 6°	Scale, (	Binoculars, Tap	e Measure,	Spotlight.					
Inspected From:	Insid	e Contain	ment 🕞	Outsi	ide Containm	nent ()		Both ()		-	
Light Meter Mfg.:	GE	Lighting		Serial No.:	0699 (T	71-3375)		Illuminal	lion:	> 2	00ftc
Light Verification Tit	mes: Ca	al In 🖾	100	xo /	1300	1	 1400	(	Cal Out 🐼		1650
Visual Examination:		Direct/Rer									
Visual Examination.				Vent System Oi	r Containme	ent Surface					
Coaled Areas	X.					Coated Are			•		
Coaled Aleas	Accept	Reject	N/A	See Comments			<b></b>	Accept	Reject	N/A	See Commen
1) Rust		x			12) Broke	en Welds		X			
2) Flaking	_	$\overline{\mathbf{x}}$	_		13) Bulgir	ng of Liner		<u> </u>	X	_	_
3) Blistering	X				14) Pitting	g		X		_	_
4) Peeling	<b>.X</b> .	<del></del> .	_		15) Exces	ssive Corro	sion	X	_	_	_
5) Chipping	_	. <u>X</u>		_	16) Wear			_	<b>X</b> .	_	
6) Wear		X	_		17) ARC			_ <b>X</b> _	_	_	· —
7) Checking	X		_	<del>-</del>	18) Dents			<b>X</b> .	_	_	_
8) Cracking	X	_	_	_	•	ice Disconti -	inuities	X	_	_	_
9) Gouges 10) Discoloration	X	_	_		20) Other	ſ		_	_	X	_
11) Other	_	<b>X</b> ·	<u>x</u>								
Comments: ADDITIONAL REF		SUPPLE	EDURE;			_			VIOUSLY	IDENT	IFIED
		•			^	ucr #					
Percent Of Coverage	ge Obtain	ed > 90%:	·	N/A		Reviewed	Previous	o vata:	<u>,                                    </u>	es	
	el III		Signature		ate Reviewe			~ 1	Signature		Dat
Komara, Bernard			-					<u>مراک م</u>	<b>X</b>		11.22.
Examiner Leve	N/A	. 8	Signature	, Da	ate Site Rev	view		1 1	Signature	•	Dat I
	el N/A				Rick Po	ortmann	D~	<u> </u>	Signature	<u> </u>	17.7 107 Dat



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						Page:	2	of _	2
Summary No.:	E1.12.0175								
Examiner:	Komara, Bernard P. BPK	Level:	111	Reviewer:	Joe Lese, PE		Date:		
Examiner:	N/A	. Level:	N/A	Site Review:	Rick Portmann	Q1/	Date:	11/22	107
Other:	N/A	Level:	N/A	ANII Review:	Tom Wyatt, ANII	Til	Date:		
				· · · · · · · · · · · · · · · · · · ·		7 00-		77	

### Comments:

Penetrations associated with Plate: PEN-401, PEN-402, PEN-403, PEN-404, PEN-405, PEN-406, PEN-407, PEN-408, PEN-409, PEN-410, PEN-411, PEN-412, PEN-423, PEN-423, PEN-433, PEN-436

Liners associated with Plate: RBLN-4002, RBLN-4003, RBLN-4004, RBLN-4005, RBLN-4006, RBLN-4007, RBLN-4008, RBLN-4009.

Item #1 (Reference Page 1 - Condition 01, 05, 06, 16): Rust, chipping, wear. (See VT-1 Report VT-07-310)

Item #2 (Reference Page 1 - Condition 13). Bulging of liner. (See VT-1 Report VT-07-310)

Item #3 (Reference Page 1 - Condition 02): Flaking. (See VT-1 Report VT-07-310)

Item #4 (Reference Page 1 - Condition 10): Discoloration. (See VT-1 Report VT-07-310)

### Inaccessible Areas:

•Approximate Azimuth 280 – 310 Degrees: Rattle Trap Area behind shield wall (fuel transfer canal) outside parameters for VT-3/VT-1.

Approximate Azimuth 335 Degrees: Area under deck plate in personnel hatch.

Approximate Azimuth 355 - 0 Degrees: Area behind Elevator outside parameters for VT-3/VT-1.



Summary No.:  Workscope.  ode: ASME rawing No.:  ystem ID:	:		.12.0175 ISI			edure Rev. k Order No		2 681043		_ R	eport No.: Page:		-07-310 of 5
ode: ASME rawing No.:		d. Thri			Worl	k Order No	.:	681043			Page.	1	of 5
rawing No.:	1992 E	d. Thr	11 92 Ad	_							90.	<u> </u>	· · ·
_			u JE MU.	Cat./It	em:	E-A/E1.12	Lo	cation:			RB-119'-1	50'	
/stem ID:		S-5	25-005		Des	scription: F	B Wall Lin	ner Plate - :	270° (	to 360°			-
	MC				_	_							
omponent ID: F	RBLP-4	1003				·-· · · · · · · · · · · · · · · · · · ·	,						
· •			LL ACCE	SSIBLE	AREAS								
Resolution: 1	/32" Li	ne	lu.				Surface Co	ndition: A	ls Foi	und			
 ∕isual Equipmer	 n√Aids:	Flast	nlight, 6"	Scale, B	inoculars			-					
nspected From:	:	Inside	Containr	ment 💿		Outside C	ontainment	0	į	Both ()	`		
_ight Meter Mfg.	:	GE !	Lighting		Serial N	<b>o.:</b> (	0699 (T1-33	175)		Illuminat	ion:	> 21	00ftc
_ight Verification				1000	0 .		300		- 1400	(	Cal Out 🔀	·	1650
Visual Examinat			irect/Ren					<del></del>		·····	( <b>v.</b> )		
					ent Syste	em Or Con	tainment S	Surfaces				·	
Coated Are	as X				•				x				
			Doine	N/A	See	***				Accept	Reject	N/A	See Commen
	AC	cept	Reject	IVA	Comme	112				nocep	110,000	107	Commen
d) Prod	•				v	10	) Ordina 14	Malda					
1) Rust 2) Flaking	•		_	_	X		) Broken V ) Bulging o			_	_	X	$\overline{\mathbf{x}}$
3) Blistering	•	_		$\overline{\mathbf{x}}$			) Pitting					<u></u>	
4) Peeling	•	<b>-</b> .	_	X	_		. •	e Corrosion	n	_		X	<b>—</b>
5) Chipping	•	_		-AL	$\overline{\mathbf{x}}$		) Wear		•	_			<u></u>
6) Wear	•	_	_		X		) ARC Stril	kes		_		<u>x</u>	
7) Checking	•	_	_	<u>_</u>	<b>A</b>		) Dents			_		X	-
8) Cracking	•	_	_	X			-	Discontinuit	ties	_	•	X	_
9) Gouges	•	_		X	_		) Other			_		X	_
10) Discoloration	an .		_		$\overline{\mathbf{x}}$		,				_		
11) Other			_	<u>x</u>							•		
Comments:	-								<u> </u>				
ADDITIONAL R	}EFERI	ENCIN	G PROCI	EDURE; I	NAP-02, F	REV. 2. TH	E FOLLOV	VING CHAI	NGES	TO PRE	VIOUSLY	IDENT	IFIED
CONDITIONS N		-											
Results:	Acc	ept 🗍	Rej	ject 🗌	Eval	$\mathbf{Z}$		R# 2	52	242			
Percent Of Cov	erage (	<b>Obtaine</b>	ed > 90%:	: <u> </u>	N/A		Re	viewed Pre	evious	Data:			<del></del>
				Signature		Date	Reviewer				Signature		Dat
	evel	11											
Examiner L	-	   <u>  </u>		mare	<u> </u>	/12/2007	Joe Lese, I	PE					
Examiner L Komara, Berna Examiner L	-	BI	P. flo	Signature	11	Date	Site Review	y	1	1/1	Signature		1 /
Examiner L Komara, Berna Examiner L VA	evel p	BI	P. Plan		11	Date		v nann `	&	J 0	Signature Signature		Dat 11   22 0



Report No.:		10		
Page:	2	of .	5	
	Date:			

Summary No.: E1.12.0175

Examiner: Komara, Bernard P. BPL Level: III Reviewer: Joe Lese, PE Date:

Examiner: N/A Level: N/A Site Review: Rick Portmann Date: 11/2/10/2

Other: N/A Level: N/A ANII Review: Tom Wyatt, ANII | Date: 12/16/02

### Comments:

Item #1 (Reference Page 1 – Condition 01, 05, 06, 16): Approximate Elevation 119' – 160'. Approximate Azimuth 270 – 360 Degrees. Multiple areas of rust. (See VT-3 Report VT-07-084). VT-1 determined that wastage corrosion has not occurred in the areas identified. The rust is a result of failure of the liner coating primarily due to mechanical impact (chipping) and abrasion (wear). Most areas are 1/2" – <2" in area or diameter.

ttem #2 (Reference Page 1 – Condition 13). Approximate Elevation 140'. Approximate Azimuth 315 Degrees. Bulging of liner. (See VT-3 Report VT-07-084). VT-1 determined that dimension of bulge area is as follows:
a)□36" L X 12" W

No degradation such as rust or deterioration of the liner was noted.

Item #3 (Reference Page 1 – Condition 02): Approximate Elevation 119' - 125'. Approximate Azimuth 323 Degrees. Flaking. (See VT-3 Report VT-07-084). VT-1 determined that flaking of paint on the RB side of the Personnel Hatch (PEN 433) door is primarily the result of failure of the coating primarily due to mechanical impact. No degradation such as heavy rust or metal wastage was noted.

Item #4 (Reference Page 1 – Condition 10): Approximate Elevation 119' - 125'. Approximate Azimuth 323 Degrees.

Discoloration. (See VT-3 Report VT-07-084). VT-1 determined that discoloration of paint on the Personnel Hatch (PEN 433) urface is primarily the result of spillage/contact of grease, oil, anti-seize onto the coating primarily due to coincidental contact with tools, gloves, equipment, etc. No degradation such as heavy rust or metal wastage was noted.



Report No.: VT-07-310

Page:

Summary No.: E1.12.0175

Examiner: Komara, Bernard P.

Level:

N/A

N/A

Reviewer: Joe Lese, PE

Date:

Examiner: N/A

Level:

Site Review: Rick Portmann

Other: N/A

Level:

ANII Review: Tom Wyatt, ANII

Comments: PHOTOS ASSOCIATED WITH ITEM # 1 (LEFT) AND ITEM # 1 (RIGHT)

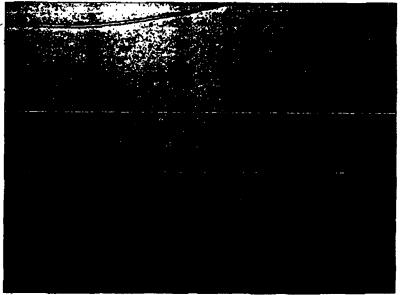
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310-1,JPG









Report No.: VT-07-310

Summary No.: E1.12.0175

Examiner: Komara, Bernard P.

Level:

Level: N/A Reviewer: Joe Lese, PE

Site Review: Rick Portmann

Date:

Examiner: N/A Other: N/A

Level:

NA

ANII Review: Tom Wystt, ANII

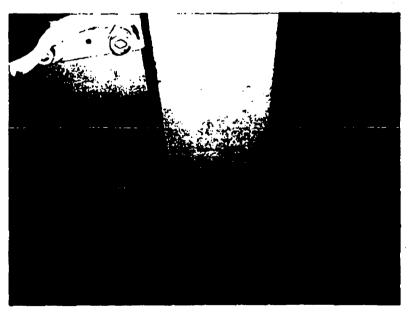
Comments: PHOTOS ASSOCIATED WITH ITEM # 1 (LEFT) AND ITEM # 3 (RIGHT)

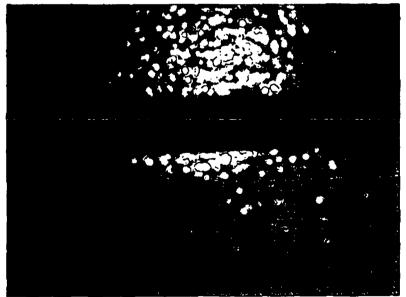
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310-3.JPG

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Report No.:	VT-07-310	
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Page:

Summary No.: E1.12.0175

Other: N/A

Examiner: Komara, Bernard P.

Level:

N/A

N/A

Reviewer: Joe Lese, PE

Date:

Examiner: N/A

Level: Level:

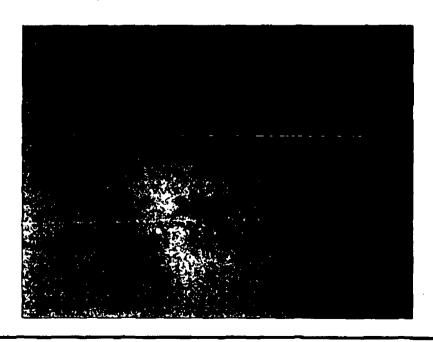
Site Review: Rick Portmann ANII Review: Tom Wyatt, ANII

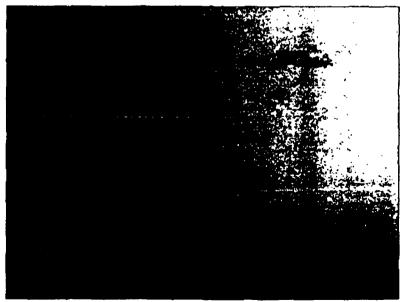
Comments: PHOTOS ASSOCIATED WITH ITEM # 4 (LEFT) AND ITEM # 4 (RIGHT)

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Description Descri	Surface Condition: As the Measure, Spotlight.  Medical Containment (1988)		
at./Item: E-A/I Description  LE AREAS  e, Binoculars, Tap  Outsi Serial No.:	Surface Condition: As the Measure, Spotlight.  Medical Containment (1988)  Medical Containment (1989)  Medical Con	RB-160'-2 0" to 360"  Found  Both (	42'
Description  LE AREAS  e, Binoculars, Tap  Outsi  Serial No.:	Surface Condition: As the Measure, Spotlight.  ide Containment ()  0699 (TI-3375)	Found Both	
e, Binoculars, Tap  Outsi Serial No.:	Surface Condition: As the Measure, Spotlight. tide Containment () 0699 (TI-3375)	Found Both ()	
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Serial No.:	0699 (TI-3375)	_	
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	Non-Coated Areas	-	
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_	20) Onlei		<b>A</b> -
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	Vent System O	See Comments  12) Broken Welds 13) Bulging of Liner 14) Pitting 15) Excessive Corrosion 16) Wear 17) ARC Strikes 18) Dents	Non-Coated Areas



Report No.: **VT-07-085** 

Page: 2 of 2

Summary No.: E1.12.0176

Examiner: LeBlanc, Marc J.

nsc Level:

Reviewer: Joe Lese, PE

Date: ||-22.07

Examiner: Sonnier, Jason B.

Level: II

Site Review: Rick Portmann

Date: 1/22/07

Other: N/A

Lovel: N/A

ANII Review: Tom Wyatt, ANII

Date: /2////2

### Comments:

Liners associated with Plate: RBLN-4001, RBLN-4010, RBLN-4011, RBLN-4012, RBLN-4013, RBLN-4014, RBLN-4015, RBLN-4016, RBLN-4017, RBLN-4018, RBLN-4019, RBLN-4020, RBLN-4021, RBLN-4022, RBLN-4023, RBLN-4024, RBLN-4025, RBLN-4026, RBLN-4027, RBLN-4028, RBLN-4029, RBLN-4030, RBLN-4031, RBLN-4032, RBLN-4033, RBLN-4034, RBLN-4035, RBLN-4036, RBLN-4037, RBLN-4038, RBLN-4039, RBLN-4040, RBLN-4041, RBLN-4042, RBLN-4043, RBLN-4044, RBLN-4045, RBLN-4045, RBLN-4046, RBLN-4047, RBLN-4048, RBLN-4049, RBLN-4050, RBLN-4051, RBLN-4052, RBLN-4053, RBLN-4054, RBLN-4055, RBLN-4056, RBLN-4057, RBLN-4058, RBLN-4059, RBLN-4060, RBLN-4061, RBLN-4062, RBLN-4063, RBLN-4064, RBLN-4065, RBLN-4066, RBLN-4067, RBLN-4068, RBLN-4069, RBLN-4070, RBLN-4071, RBLN-4072, RBLN-4073, RBLN-4074, RBLN-4095, RBLN-4096, RBLN-4097, RBLN-4097, RBLN-4098.



Site/Unit:	CR3	/	3	Prod	edure:	NDEP-0620		Outage No.:	RF	O15-IWE
Summary No.:	Ε	1.12.0177	·	Procedure	e Rev.:	2	·	Report No.:	V1	r-07-086
Workscope:		ISI		Work Ord	er No.:	681043		Page:	1	of 2
Code: ASME 199	2 Ed. Th	ru 92 Ad.	Cat./	item: E-A/	E1.12	Location:		RB-242'-2	50'	
Drawing No.:	S-!	525-005		Descripti	ion: RB Wall	 1 Liner Plate - 2	70° to 360°	/ Crane Ru	naway	Supt Galler
System ID: MC				_						
Component ID: RBI	.P-4005					<del></del>				
		ALL ACC	SSIBLE	AREAS						
Resolution: 1/32	* Line				Surface	Condition: As	Found		==	
Visual Equipment/A		hlight 6"	Scale F	Sinoculars Tan			Tourid			
Inspected From:		e Contain			ide Containm		Both (			
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Light Meter Mfg.:		Lighting		Serial No.:	0699 (Т	1-3375)	lllumina	ition:	> 2	00ftc
Light Verification Tir	nes: Ca	al In 🗹 _	140	<u> </u>	1500	_ /N	VA	Cal Out 🐷		1630
Visual Examination:		Direct/Rer	note							•
				Vent System O	r Containme	ent Surfaces				
Coated Areas	x				Non-C	Coated Areas	Ĺ			
	Accept	Reject	N/A	See Comments		,	Accept	Reject	N/A	See
	Accept	nejeci	IVA	Comments			Accept	neject	IVA	Comments
4) 5 44										
1) Rust	X		_		12) Broke		X	_	_	-
<ul><li>2) Flaking</li><li>3) Blistering</li></ul>	X		<del></del>	. —	•	ng of Liner	X	_		
4) Peeling	X	_	_		14) Pitting		X	_	_	
5) Chipping	X		_	_	16) Wear	ssive Corrosion	X		_	
6) Wear	X	_	_		17) ARC		X		_	-
7) Checking	X		_		18) Dents		X	_	_	_
8) Cracking	X		_		-	, ce Discontinuitie	X		_	_
9) Gouges	X	-	_		20) Other		s <u>X</u> .		<u>x</u>	
10) Discoloration	X	_	_	<del></del>						-
11) Other	_	_	<u>x</u>	_						
Comments:										
ADDITIONAL REFE	RENCIN	G PROCE	DURE; N	NAP-02, REV. 2	. NO CHAN	GE NOTED FRO	M PREVIO	US DATA.		
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Percent Of Coverag	e Obtaine	3d > 90%:		N/A		Reviewed Previo	ous Data:	Ye	8	<u> </u>
Examiner Level			ignature		ate Reviewe	or	Λ	Signature		Date
Komara, Bernard P		P. Kon		11/21/20			40	de		23.07
Examiner Level			ignature	Da 11/21/20	ate Site Rev		91.	Signature	_	Date
ner Level			ignature	<del></del>	07 Rick Po		Jan C	Signature		73/07 Date
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							Page:	2	of 2	_
Summary No.:	E1.12.0177									
Examiner:	Komara, Bernard P.	BPK	Level:	111	Reviewer:	Joe Lese, PE		Date:		
Examiner:	Duplechain, Lenus F.	4)	Level:	11	Site Review:	Rick Portmann	BIP	Date:	11/23	70z
Other:	N/A		Level:	N/A	ANII Review:	Tom Wyatt, ANII	TAIN	Date:	12/1/197	
							17	•	20/05	

### Comments:

Liners associated with Plate: RBLN-4075, RBLN-4076, RBLN-4077, RBLN-4078, RBLN-4079, RBLN-4080, RBLN-4081, RBLN-4082, RBLN-4083, RBLN-4084, RBLN-4085, RBLN-4086, RBLN-4087, RBLN-4088, RBLN-4089, RBLN-4090, RBLN-4091, RBLN-4092, RBLN-4093, RBLN-4094



Summary No.:  Workscope:  ode: ASME 1992 rawing No.:	E1.12.6	0178				620		utage No.:	RF	
ode: ASME 1992	ISI		Procedure	Rev.:	2		· F	Report No.:		r-07-087
			Work Orde	ır No.:	68104	3		Page:	1	of <u>2</u>
rawing No.:	Ed. Thru 92	Ad. Cat.	/Item: E-A/E	1.12	Location:			RB-250		
	S-525-0	05	Description	n: RB Dor	ne Liner Pl	ate - 270	o to 360°	•		
ystem ID: MC			_							
omponent ID: RBLP	-4006									
<del></del>		ACCESSIBLE	AREAS					<del>-</del>		
Resolution: 1/32*	Line			Surfac	e Condition:	As Fo	und			
/isual Equipment/Aid		nt, 6" Scale,	Binoculars, Tap							
nspected From:		ntainment (e		de Containn			Both ()			
·		_			_			··	. •	
ight Meter Mfg.:	GE Ligh		Serial No.:	<del></del>	ri-3375)	<del></del>	Illuminal		> 2	00ftc
ight Verification Time	es: Cal In	140	<del>00</del> /	1500	′	N/A	<del></del>	Cal Out 🗹		1630
/isual Examination:	Direct	t/Remote	<del></del>							
			Vent System Or	Containm	ent Surface	\$				
Coated Areas	X.			Non-	Coated Are	as <u>X</u>				
	coopt Dai	ect N/A	See Comments				Accept	Reject	N/A	See Comment
•	ccept Rej	ect IVA	Comments				Acocp.	ricioni	147	Comment
							•			
1) Rust			X	•	en Welds		<b>X</b> .	<del></del>	_	_
2) Flaking	<u>x</u> –		*********	_	ng of Liner		X	_	_	_
3) Blistering	<u>x</u> _	- –		14) Pittin	•	,	X	_	_	
4) Peeling	<b>X</b> –		. —	•	ssive Corro	sion	X		~	
5) Chipping	<u>x</u> –		_	16) Wea			X	_	_	_
6) Wear	<b>X</b> –			17) ARC	Strikes		<b>X</b> .		_	_
7) Checking	<b>X</b> –			18) Dent	S		<u> X</u>	_		_
8) Cracking	<b>X</b> _		_	19) Surta	ice Disconti	nuities	<b>.X</b> .		_	
9) Gouges	<u>x</u> _			20) Othe	r		_			X
10) Discoloration		_ /	<u>X</u>							
11) Other			<u>X</u>							



Report No.:		r-07-087		
Dago:	2		2	

Summary No.: E1.12.0178

Surviva Name of Delay

Examiner: Komara, Bernard P. SPIL

Level: III

Reviewer: Joe Lese, PE

Date:

Examiner: Duplechain, Lenus F. 47

Level: II

Site Review: Rick Portmann

Date: 1/23/0

Other: N/A

Level: N/A

ANII Review: Tom Wyatt, ANII

\_ Date:

te: <u>/2///*0*/</u>

### Comments:

Liners associated with Plate: RBLN-4500, RBLN-4501, RBLN-4502, RBLN-4503, RBLN-4504, RBLN-4505, RBLN-4506, RBLN-4507, RBLN-4508, RBLN-4509, RBLN-4510, RBLN-4511, RBLN-4512, RBLN-4513, RBLN-4514, RBLN-4515, RBLN-4516, RBLN-4517, RBLN-4518, RBLN-4519, RBLN-4520, RBLN-4521, RBLN-4522, RBLN-4523, RBLN-4524, RBLN-4525, RBLN-4526, RBLN-4527, RBLN-4528, RBLN-4529, RBLN-4530, RBLN-4531, RBLN-4532, RBLN-4533, RBLN-4534, RBLN-4535, RBLN-4536, RBLN-4537, RBLN-4538, RBLN-4539, RBLN-4540, RBLN-4541, RBLN-4542, RBLN-4543, RBLN-4544, RBLN-4545, RBLN-4546, RBLN-4547, RBLN-4548, RBLN-4549, RBLN-4550, RBLN-4551, RBLN-4552, RBLN-4553, RBLN-4554, RBLN-4555, RBLN-4556, RBLN-4557, RBLN-4558, RBLN-4559, RBLN-4560, RBLN-4561, RBLN-4562, RBLN-4563, RBLN-4564, RBLN-4565, RBLN-4566, RBLN-4567