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PUBLIC SERVICE COMPANY OF COLORADO

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G. K. MILLEN

SENIOR VICE PRESIDENT

July 11, 1978  
Fort St. Vrain  
Unit No. 1  
P-78107

Mr. Karl V. Seyfrit, Director  
Region IV  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Suite 1000  
611 Ryan Plaza Drive  
Arlington, TX 76012

THIS DOCUMENT CONTAINS  
POOR QUALITY PAGES

Docket No. 50-267

Gentlemen:

Subject: System 21 Instrument Calibration

In the NRC-IE letter of March 29, 1978, in which the Fort St. Vrain unit was released to operate at power levels in excess of 2.0% of rated thermal power, certain restraints were established in item 2 for exceeding the presently authorized operating limit of 70% of rated thermal power.

In our efforts to comply with the provisions of these restraints it has become apparent to PSC that literal compliance with the statement "the calibration and/or testing will be fully implemented prior to exceeding the presently authorized 70% rated power level" would require an extended plant outage to complete the calibration and/or testing of certain instruments within the helium circulator auxiliary system (System 21) if every instrument was to be calibrated in the present effort.

A review of all the instrumentation in System 21 was completed to identify and separate the instruments into various classes. The review established six instrument classes, classes (A through F), described in detail later, which are: (A) safety related instruments, (B) instruments specifically included in the plant instrument calibration program, (C) instruments calibrated as part of Technical Specification surveillance procedures, (D) instruments used for local indication only, and (F) instruments that are inaccessible due to their physical location. All System 21 instrumentation was then evaluated for the requirement of a separate functional test following calibration.

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A complete System 21 instrument list, attachment 1, used as the work sheet for our review, has been marked up with both the instrument class, functional test status, and plant status required for calibration. The instrument list should be read as follows:

ILD20U

LISTED BY SYSTEM 21

INSTRUMENT NUMBER Q1	PI OP CI DWG D2	SERVICE D3	INSTRUMENT LIST							GULF GENERAL ATOMIC			
			INST LGC ATION C4	INST DATA SHEET D5	P M S D	RE S S D	RE ELECT POWER SUPPLY D7	INST LOCATION ING	ME INS D	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12	
5C2105 - B	P122-3	CIRC 1A SPEED	105	CR115	- 9	2			1	9	NONE	P1733	E1705
5E2105-1 F	P121-1	CIRC 1A SPEED	PCR V	NONE	9	5					NONE	P2800	E1438
5E2105-2 F	P121-1	CIRC 1A SPEED (SPARE)	PCR V	NONE	9	5					NONE	P2800	E1438
5I2105 B	P122-3	CIRC 1A SPEED	105	E1125	9	2		NS	1	2	NONE	P2261	E1705
5I2105-1 B	P122-3	CIRC 1A SPEED	149	E1139	9 7/8	2			3	2	NONE	P1668	E1705

Instrument Class (A through F)

Functional Test Category  
(either 1, 2, or 3)

Plant status required for calibration

A - SD (Circulator 1A must be shut down)

B - SD (Circulator 1B must be shut down)

C - SD (Circulator 1C must be shut down)

D - SD (Circulator 1D must be shut down)

1 - SD (Loop 1 must be shut down)

2 - SD (Loop 2 must be shut down)

RF - (refueling shutdown)

SI - (these instruments are calibrated by  
surveillance tests)

NS - (No shutdown requirements)

The instrument classes and an example of each is explained in more detail by the following:

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Class A - instruments defined by document 90-SR-6-2, May 12, 1978, as being "safety related". This safety related classification will extend "...to components which must function during or following a seismic event", and "...components which must function only following a seismic event." All these instruments are presently being calibrated annually under ADM-14 (annual calibration program).

Examples: - SC-2109 Circulator 1A water turbine speed controller,  
page 163 of instrument list (attachment 1)

Class B - instruments presently calibrated annually by plant personnel. These instruments, along with Class A, are listed on the master calibration schedule.

Example: SC-2105 Circulator 1A steam turbine speed control, page 162.

Class C - instruments calibrated by surveillance tests, as outlined in the Technical Specifications.

Example: PDIS-21149 circulator 1A bearing water leak, page 202.

Class D - instruments that are not presently calibrated on an annual basis and are used for local indication and/or system performance diagnosis only.

Example: TI-2139 1A buffer helium recirculator, page 171.

Class F - instruments that can't be calibrated because of inaccessibility.

Example: SE-2105-1 circulator 1A speed element, page 162. This instrument is an induction type speed probe located inside the circulator.

As a result of the review of the instruments for functional test requirements, it was concluded that only certain Class A and B instruments would require a formal functional test. All Class A and B instruments were then assigned a functional test status.

Class C instruments calibrated by surveillance procedures will not require a separate functional test after calibration because the test is included in the surveillance procedures.

Functional test requirements were assigned to each Class A and B instruments on the following basis:

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### Functional Test Category

Category 1 - these instruments are calibrated when, for example, the circulator or loop is shutdown and must function properly before the circulator or loop can then be restarted. A separate functional test is not required.

Example: SC-2105, Circulator 1A steam turbine speed controller, page 163. This instrument will have to operate before the circulator steam turbine can be operated.

Category 2 - these instruments are not safety related or essential to the operation of the system and will not be functionally tested.

Example: ZI-2105-1 circulator speed valve position indicator, page 163. This instrument provides only an indication for the operator of the actual valve position.

Category 3 - these instruments are safety related or significant to the operation of the system and will be functionally tested after calibration.

Example: SC-2109, Circulator 1A water turbine speed control, page 162. The ability to drive the circulators on water is a fundamental aspect of safe shutdown cooling.

There are a total of 670 Class A and B instruments, normally scheduled for calibration by the master calibration schedule. Note that this does not include 239 Class C instruments scheduled for calibration by Technical Specifications. Of these 670 instruments, only about 25% can be calibrated on a non-shutdown basis and the remaining 75% require a circulator, loop, or a refueling shutdown. There are also 73 Class D instruments that are periodically scheduled for calibration. The majority of these instruments can be calibrated on a non-shutdown basis.

PSC does not believe that shutting the reactor down to specifically facilitate instrument calibration in System 21 is necessary to protect the health and safety of the public for the following reasons:

1. The review of System 21 instrument calibration procedure is complete and the review uncovered no instances where the instruments had been incorrectly set up in the past.
2. All Class A, B, and C instruments which comprise the greater majority of System 21 instruments, and more importantly, all of the significant instrumentation, have been calibrated for several years and have shown no significant "as found" problems during calibration.

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PSC would propose that the reactor be allowed to operate above the present limit of 70% of rated thermal power upon completion of calibration procedure review and updating and calibration of those Category A and B instruments that are accessible during plant operation. The Category C instruments would be calibrated on the schedule identified in the Technical Specifications that has been utilized since the operating license was issued in December, 1973. The inaccessible Category A and B instrumentation would be calibrated as it became available and would be completed prior to returning the plant to power operation following the first refueling. The outage for the first refueling is presently scheduled to begin on or about January 8, 1979.

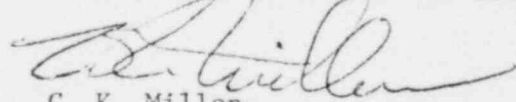
Functional testing of instrumentation would be completed as indicated on the attached list.

PSC requests your concurrence with this proposal to facilitate resolution of this item as a restraint to operating the reactor above 70% of rated thermal power.

If there are any questions concerning our position, please let me know.

Very truly yours,

PUBLIC SERVICE COMPANY OF COLORADO



C. K. Millen  
Senior Vice President

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Attachment

NO ENTRY ON CARD!

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ALARMS - CIRCLED  
IF ELECTRICALS

INSTRUMENT  
FORT ST VRAI  
PUBLIC SERVICE COMP

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 162

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	P M S 0	RE	ELECT POWER SUPPLY 07	INST LOCATION ING	ME ING	INST DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
SC2105	B	PI22-3	CIRC 1A SPEED	I05	CR115	9/78 2	A-SD	1	4	NONE	P1733	E1705
SE2105-1	F	PI21-1	CIRC 1A SPEED	PCR	NONE	9 5				NONE	P2800	E1438
SE2105-2	F	PI21-1	CIRC 1A SPEED (SPARE)	PCR	NONE	9 5				NONE	P2800	E1438
SI2105	B	PI22-3	CIRC 1A SPEED	I05	EI125	9/78 2	<del>A-SD</del> NS	1	2	NONE	P2261	E1705
SI2105-1	B	PI22-3	CIRC 1A SPEED	I49	EI139	9/78 2	A-SD	3	2	NONE	P1668	E1705
SM2105	B	PI21-1	CIRC 1A SPEED	I14	NONE	9/78 8	NS	1	4	NONE	P1736	E1705
SM2105-1	B	PI22-3	CIRC 1A STM TURB VLV SERV	I35	CV123	9/78 5	A-SD	1	3	NONE	P1733/5	E1705
ST2105	B	PI22-3	CIRC 1A SPEED	I35	TM159	9/78 2	A-SD	1	2	NONE	P1736	E1705
SV2105	B	PI22-3	CIRC 1A STM TURB CTL VAL LOCAL	CV123	9 5	A-SD	1	-1B6		M48C4	PC744	E1329
ZI2105	B	PI21-2	CIRC 1A DISPLACEMENT	I14	NONE	9 6	A-SD	2		NONE	NONE	NONE
ZI2105-1	B	PI22-3	CIRC 1A SPEED VALVE IND	I05	FI101	9/78 2	A-SD	2	3			
ZS2105		PI22-3	CIRC 1A STM TURB CTL VAL LOCAL	NONE	9 5					NONE		E1777
XSL2105	B	PI22-3	PPS TRIP RESET PERMIT	I35	BT132	9 2	A-SD	1	1	NONE	P1733	E1705
SC2106	B	PI22-8	CIRC 1C SPEED	I05	CR115	9/78 2	C-SD	1	1	NONE	P1737	E1705
SE2106-1	F	PI21-2	CIRC 1C SPEED	PCR	NONE	9 6				NONE	P2804	E1437
SE2106-2	F	PI21-2	CIRC 1C SPEED (SPARE)	PCR	NONE	9 6				NONE	P2804	E1437
SI2106	B	PI22-8	CIRC 1C SPEED	I05	EI125	9/78 2	C-SD	1	1	NONE	P2260	E1705
SI2106-1	B	PI22-8	CIRC 1C SPEED	I49	EI139	9/78 2	C-SD	3	1	NONE	P1669	E1705
SM2106	B	PI21-2	CIRC 1C SPEED	I14	NONE	9/78 6	NS	1	1	NONE	P1737	E1705
SM2106-1	B	PI22-8	CIRC 1C STM TUR VLV SERVO	I36	CV123	9/78 5	C-SD	1	1	NONE	P1737/35	E1705

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INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 163

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG 02	SERVICE 03	INST LOC TION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ME ING	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
ST2106 <sup>B</sup>	PI22-8	CIRC 1C SPEED	I36	TM159	9/17/72	C-SD	1	3	NONE	P1737	E1705
SV2106 <sup>A</sup>	PI22-8	CIRC 1C STM TURB CTL VAL	LOCAL	CV123	9 5	C-SD	1		M48E7	P0744	E1332
ZI2106 <sup>B</sup>	PI21-2	CIRC 1C DISPLACEMENT	I14	NONE	9 N6 5	C-SD	2		NONE	NONE	NONE
ZI2106-1 <sup>B</sup>	PI22-8	CIRC 1C SPEED VALVE IND	I05	FI101	9/17/72	C-SD	2 ?	7			
ZS2106	PI22-8	CIRC 1C STM TURB CTL VAL	LOCAL	NONE	9 5				NONE		E1777
<sup>B</sup> XSL2106 <sup>B</sup>	PI22-8	PPS TRIP RESET PERMIT	I36	BT132	9-1-72	NS	1	5	NONE	P1737	E1705
SE2107-1 <sup>F</sup>	PI21-1	CIRC 1A SPEED (SPARE)	PCR V	NONE	9 5				NONE	P2801	E1404
SE2107-2 <sup>F</sup>	PI21-1	CIRC 1A SPEED (SPARE)	PCR V	NONE	9 5				NONE	P2801	E1404
SE2108-1 <sup>F</sup>	PI21-2	CIRC 1C SPEED (SPARE)	PCR V	NONE	9 5				NONE	P2805	E1404
SE2108-2 <sup>F</sup>	PI21-2	CIRC 1C SPEED (SPARE)	PCR V	NONE	9 5				NONE	P2805	E1404
HS2109-1	PI21-7	CIRC 1A WTR TURB	I05	CS125	9 2				NONE	P2510	E1323
HS2109-2	PI21-7	CIRC 1A TURB DRAIN	I05	CS125	9 2				E1320		E1330
HV2109-1	PI21-7	CIRC 1A WTR TURB SUPP	LOCAL	21-1-30	9 1	A-SD			PI82286	P2510	E1330
HV2109-2	PI21-7	CIRC 1A WTR TURB DRAIN	LOCAL	21-1-31	9 1	A-SD			PI82285	P2510	E1330
SC2109 <sup>A</sup>	PI21-7	CIRC 1A WTR TURB CONTROL	I05	CR116	9-1-72	NS	3	6	NONE	P1738	E1706
SE2109-1 <sup>F</sup>	PI21-1	CIRC 1A SPEED	PCR V	NONE	9 6				NONE	P2800	E1437
SE2109-2 <sup>F</sup>	PI21-1	CIRC 1A SPEED (SPARE)	PCR V	NONE	9 6				NONE	P2800	E1437
SI2109 <sup>A</sup>	PI21-7	CIRC 1A WTR TURB	I05	E1138	9/7/72	NS	3		NONE	P2260	E1706

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNCU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ME ING	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
SM2109 <i>A</i>	PI21-1	CIRC 1A SPEED	I14	NONE	9/7/78	NS	3	6	NONE	P1736	E1706
ST2109 <i>A</i>	PI21-7	CIRC 1A SPEED	I36	TM160	9/1/78	A-SD	3	5	NONE	P1736	E1706
SV2109 <i>A</i>	PI21-7	CIRC 1A WTR TURB CONTROL	LOCAL	CV102	9	A-SD	3	6	MS4D2	P2115	E1330
ZI2109-1	PI21-7	CIRC 1A WTR TURBINE	I05	CS125	9				NONE	P2510	E1330
ZI2109-2	PI21-7	CIRC 1A WTR TURBINE	I05	CS125	9				NONE	P2510	E1330
ZI2109-3	PI21-7	CIRC 1A WTR TURBINE	I49	NONE	9				NONE	P2775	E1557
ZS2109-1	PI21-7	CIRC 1A WTR TURBINE	LOCAL	Z1-1-30	9				NONE	P2775	E1557
ZS2109-2	PI21-7	CIRC 1A WTR TURBINE	LOCAL	Z1-1-31	9				NONE		
✓ XSL2109 <i>A</i>	PI21-7	PPS TRIP RESET PERMIT	I36	BT131	9/6/78	NS	3	6	NONE	P1738	E1706
HS2110-1	PI21-9	CIRC 1C WTR TURB	I05	CS125	9				NONE	P2512	E1325
HS2110-2	PI21-9	CIRC 1C TURB DRAIN	I05	CS125	9				E1320		E1331
HV2110-1 <i>w</i>	PI21-9	CIRC 1C WTR TURB SUPPLY	LOCAL	Z1-1-30	9	C-SD			PI822B3	P2513	E1331
HV2110-2 <i>w</i>	PI21-9	CIRC 1C WTR TURB DISCH	LOCAL	Z1-1-31	9	C-SD			PI822A3	P2513	E1331
SC2110 <i>A</i>	PI21-9	CIRC 1C WTR TURB CONTROL	I05	CR116	9/1/78	NS	3	5	NONE	P1734	E1706
SE2110-1 <i>F</i>	PI21-2	CIRC 1C SPEED	PCR V	NONE	9				NONE	P2804	E1438
SE2110-2 <i>F</i>	PI21-2	CIRC 1C SPEED (SPARE)	PCR V	NONE	9				NONE	P2804	E1438
SI2110 <i>A</i>	PI21-9	CIRC 1C WTR TURB	I05	EI138	9/14/78	NS	3	9	NONE	P2260	E1706
SM2110 <i>A</i>	PI21-2	CIRC 1C SPEED	I14	NONE	9/15/78	NS	3	9	NONE	P1736	E1706
ST2110 <i>A</i>	PI21-9	CIRC 1C SPEED	I35	TM160	9/1/78	C-SD	3	3	NONE	P1737	E1706
SV2110 <i>A</i>	PI21-9	CIRC 1C WTR TURB CONTROL	LOCAL	CV102	9	C-SD	3-503	3	NONE	P2513	E1331



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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 165

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	1E ING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12	
ZI2110-1	PI21-9	CIRC 1C WTR TURBINE	I05	CS125	9 ?				NONE			
ZI2110-2	PI21-9	CIRC 1C WTR TURBINE	I05	CS125	9 ?				NONE			
ZI2110-3	PI21-9	CIRC 1C WTR TURBINE	I49	NONE	9 ?				NONE	P2776	NONE	
ZS2110-1	PI21-9	CIRC 1C WTR TURBINE	LOCAL	21-1-30	9 1				NONE	P2776	E1557	
ZS2110-2	PI21-9	CIRC 1C WTR TURBINE	LOCAL	21-1-31	9 1				NONE			
✓ XSL2110-A	PI21-9	PPS TRIP RESET PERMIT	I35	BT131	9/78 ?	NS	1	1	3	VELAN	P1735	E1706
SC2111-B	PI22-3	CIRC 1B SPEED	I05	CR115	9/78 ?	B-SD	1		4	NONE	P1733	E1705
SE2111-1 F	PI21-1	CIRC 1B SPEED	PCR V	NONE	9 ?					NONE	P2802	E1438
SE2111-2 F	PI21-1	CIRC 1B SPEED	PCR V	NONE	9 ?					NONE	P2802	E1438
SI2111-B	PI22-3	CIRC 1B SPEED	I05	EI125	9/78 ?	D-SD	1		2	NONE	P1734	E1705
SI2111-A	PI22-3	CIRC 1B SPEED	I49	EI139	9/78 ?	B-SD	3		2	NONE	P1668	E1705
SM2111-B	PI21-1	CIRC 1B SPEED	I14	NONE	9/78 ?	NS	1		2	NONE	P1736	E1705
SM2111-1 B	PI22-3	CIRC 1B STM TUR VLV SERVO	I35	CV123	9 ?	B-SD	1		4	NONE	P1733/35	E1705
ST2111-B	PI22-3	CIRC 1B SPEED	I35	TM159	9 ?	B-SD	1		2	NONE	P1736	E1705
SV2111-A	PI22-3	CIRC 1B STM TURB CTL VA	LOCAL	CV123	9 ?	B-SD	1			M48B7	PC744	E1329
ZI2111-B	PI22-3	CIRC 1B SPEED VALVE IND	I05	FI101	9 ?	B-SD	?		3			
ZI-2111-1	PI22-3	CIRC 1B STM TURB CTL VAL	LOCAL	NONE	9 ?	B-SD	2					E1777
✓ XSL2111-B	PI22-3	PPS TRIP RESET PERMIT	I35	BT132	9/78 ?	NS	1	1	1	NONE	P1733	E1705
SC2112-B	PI22-8	CIRC 1D SPEED	I05	CR115	9 ?	D-SD	1	1	3	NONE	P1737	E1705

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 166

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ME ING	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
SE2112-1 F	PI21-2	CIRC 1D SPEED	PCRV	NONE	9 - 5				NONE	P2806	E1437
SE2112-2 F	PI21-2	CIRC 1D SPEED	PCRV	NONE	9 - 5				NONE	P2806	E1437
SI2112 <del>1</del> B	PI22-8	CIRC 1D SPEED	I05	EI125	96-782	D-SD	1	3	NONE	P1737	E1705
SI2112-1 <del>1</del> B	PI22-8	CIRC 1D SPEED	I49	EI139	96-772	D-SD	3	3	NONE	P1669	E1705
SM2112 <del>1</del> B	PI21-2	CIRC 1D SPEED	I14	NONE	96-772	NS	1	3	NONE	P1737	E1705
SM2112-1 <del>1</del> B	PI22-8	CIRC 1D STM TUR VLV SERVO	I36	CV123	96-772	D-SD	1	5	NONE	P1737/35	E1705
ST2112 <del>1</del> B	PI22-8	CIRC 1D SPEED	I36	TM159	96-772	D-SD	1	3	NONE	P1737	E1705
SV2112 <del>1</del> A	PI22-8	CIRC 1D STM TURB CTL VAL	LOCAL	CV123	9 - 5	D-SD	1 -104	4	M48010	P0745	E1332
Z1-2112 ZI2112-1 B	PI22-8	CIRC 1D SPEED VALVE IND	I??	FI101	99-762	D-SD	2 0?	7			
ZS2112 <del>1</del> A	PI22-8	CIRC 1D STM TURB CTL VAL	LOCAL	NONE	9 - 5				NONE		E1777
XSL2112 <del>1</del> B	PI22-8	PPS TRIP RESET PERMIT	I36	BT132	96-782	NS	1	5	NONE	P1737	E1705
SE2113-1 F	PI21-1	CIRC 1B SPEED (SPARE)	PCRV	NONE	9 - 5				NONE	P2803	E1404
SE2113-2 F	PI21-1	CIRC 1B SPEED (SPARE)	PCRV	NONE	9 - 5				NONE	P2803	E1404
SE2114-1 F	PI21-2	CIRC 1D SPEED (SPARE)	PCRV	NONE	9 - 5				NONE	P2807	E1404
SE2114-2 F	PI21-2	CIRC 1D SPEED (SPARE)	PCRV	NONE	9 - 5				NONE	P2807	E1404
HS2115-1	PI21-8	CIRC 1B WTR TURB	I05	CS125	9 2				NONE	P2514	E1323
HS2115-2 <del>1</del> A	PI21-8	CIRC 1B TURB DRAIN	I05	CS125	5 2				E1320		E1330
HV2115-1 <del>1</del> A	PI21-8	CIRC 1B WTR TURB SUPPLY	LOCAL	21-1-30	9 1	B-SD.A	-J06		PI822C2	P2515	E1330

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG D2	SERVICE O3	INST LOC ATION O4	INST DATA SHEET O5	PROCURE MENT SPEC O6	PNEU ELECT POWER SUPPLY O7	INST LOCATION DRAWING O8	ME ING	INST DRAWING I0	CABLE TAB DRAWING I1	ELECT CONN DRAWING I2	
HV2115-2	PI21-8	CIRC 1B WTR TURB DISCH	LOCAL	21-1-31	9	1	B-50, A	-2C5		PI822B5	P2515	E1330
SC2115-A	PI21-8	CIRC 1B WTR TURB CONTROL	I05	CR116	6-78	2	NS	3	7	NONE	P1738	E1706
SE2115-1 F	PI21-1	CIRC 1B SPEED	PCRV	NONE	5	6				NONE	P2802	E1437
SE2115-2 F	PI21-1	CIRC 1B SPEED (SPARE)	PCRV	NONE	5	6				NONE	P2802	E1437
SI2115-A	PI21-8	CIRC 1B WTR TURB	I05	EI138	8/78	2	NS	3	7	NONE	P1737	E1706
SM2115-A	PI21-1	CIRC 1B SPEED	I14	NONE	5/78	6	NS	3	7	NONE	P1736	E1706
ST2115-A	PI21-8	CIRC 1B SPEED	I36	TM160	6/77	2	B-50	3	7	NONE	P1736	E1706
SV2115-A	PI21-8	CIRC 1B WTR TURB CONTROL	LOCAL	CV102		5	B-50A	3	-3D6	M54A2	P2514	E1330
ZI2115-1	PI21-8	CIRC 1B WTR TURBINE	I05	CS125		2				NONE	P2775	E1557
ZI2115-2	PI21-8	CIRC 1B WTR TURBINE	I05	CS125		2				NONE		
ZI2115-3	PI21-8	CIRC 1B WTR TURBINE	I49			2				NONE	P2775	E1557
ZS2115-1	PI21-8	CIRC 1B WTR TURBINE	LOCAL	21-1-30		1			7870	NONE	P2775	E1557
ZS2115-2	PI21-8	CIRC 1B WTR TURBINE	LOCAL	21-1-31		1				NONE		
XSL2115-A	PI21-8	PPS TRIP RESET PERMIT	I36	BT131	6-78	2	NS	3	7	NONE	P1738	E1706
HS2116-1	PI21-1	CIRC 1D WTR TURB	I05	CS125		2				NONE	P2515	E1325
HS2116-2	PI21-10	CIRC 1D TURB DRAIN	I05	CS125		2				E1320		E1331
HV2116-1	PI21-10	CIRC 1D WTR TURB SUPPLY	LOCAL	21-1-30		1	D-503	-3C4		PI822C2	P2516	E1331
HV2116-2	PI21-10	CIRC 1D WTR TURB DISCH	LOCAL	21-1-31		1	D-503	-3C4		PI822A3	P2516	E1331
SC2116-A	PI21-10	CIRC 1D WTR TURB CONTROL	I05	CR116	6-78	2	NS	3	9	NONE	P1734	E1706
SE2116-1 F	PI21-2	CIRC 1D SPEED	PCRV	NONE		6				NONE	P2806	E1438

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 168

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEH SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
SE2116-2 F	PI21-2	CIRC 1D SPEED (SPARE)	PCR V	NONE	9 - 6		—	NONE	NONE	P2806	E1438
SI2116 -A*	PI21-10	CIRC 1D WTR TURB	I05	EI130	98/182	NS	3	P1859	NONE	P1734	E1706
SH2116 A*	PI21-2	CIRC 1D SPEED	I14	NONE	95/186	NS	3	P1859	NONE	P1736	E1706
ST2116 A*	PI21-10	CIRC 1D SPEED	I35B	TM160	96-772	D-SD	3	P1859	NONE	P1736	E1407
SV2116 A*	PI21-10	CIRC 1D WTR TURB CONTROL	LOCAL	CV102	9 - 5	D-SD3	3 -3C4	P469	M5406	P2516	E1331
ZI2116-1	PI21-10	CIRC 1D WTR TURBINE	I05	CS125	9 - 2			P469	NONE	P2515	E1331
ZI2116-2	PI21-10	CIRC 1D WTR TURBINE	I05	CS125	9 - 2			P469	NONE	P2515	E1331
ZI2116-3	PI21-10	CIRC 1D WTR TURBINE	I49	NONE	9 - 2			P871	NONE	P2776	E1557
ZS2116-1	PI21-10	CIRC 1D WTR TURBINE	LOCAL	21-1-30	9 - 1			P469	NONE	P2515/16	E1331
ZS2116-2	PI21-10	CIRC 1D WTR TURBINE	LOCAL	21-1-31	9 - 1			P469	NONE	P2515/16	E1331
XSL2116 A*	PI21-10	PPS TRIP RESET PERMIT	I35	BT131	96-78-2	NS	3(1)	P1859	NONE	P1735	E1706
HS2130-1	PI21-4	BEARING WATER PUMP 1C	I02	CS134	9 - 2	1B		P90	NONE	P703	E1293
HS2130-2	PI21-4	BEARING WATER PUMP 1F	I02	CS134	9 - 2	1B		P56	NONE	P703	E1293
HS2130-3	PI21-4	BEARING WATER PUMP 1D	I02	CS134	9 - 2	1B		P57	NONE	P703	E1291
HS2131-1	PI21-4	BEARING WATER PUMP 1A	I02	CS134	9 - 2	1B		P54	NONE	P703	E1290
HS2131-2	PI21-4	BEARING WATER PUMP 1E	I02	CS134	9 - 2	1B		P55	NONE	P703	E1288
HS2131-3	PI21-4	BEARING WATER PUMP 1B	I02	CS134	9 - 2	1B		P89	NONE	P703	E1290
PDI. 33 B	PI21-4	LOOP 1 BFW DIFF PRESS	I02	EI132	5-77-2	D-SD D-SD	3	P1837	NONE	P2231	E1297

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LISTED BY SYSTEM 21

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 169

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABL TAB DRAWING 11	ELECT CONN DRAWING 12
PDT2133 -B	PI21-4	LOOP 1 BRG WTR PUMPS	I123	TM146	9-5-77?	1-SD	3 -202	P1837	M198E2	P1689	E1707
XPS2133 B	NONE	LOOP 1 BRG WTR PUMPS	I39	TM146	9-10-77?		3-	P1837	NONE	P1760	E1707
PDAL2133	PI21-4	LOOP 1 BRG WTR PUMPS	(I02)	NONE	9-13	—	3	P2042	NONE	P.0767	E1883
POSL2133 -B	PI21-4	LOOP 1 BRG WTR PUMPS	I39	BT142	9-5-77?	1-SD	3	P54	NONE	P723	E1707
PD12134 -B	PI21-4	LOOP 2 BFW DIFF PRESS	I02	EI132	9-16-77?	2-SD	3 -4	P1837	NONE	P2230	E1297
PDT2134 -B	PI21-4	LOOP 2 BRG WTR PUMPS	LOCAL	TM146	9-16-77	2-SD	3 -2A4	P1837	130.8.6	P1658	E1772
XPS2134 B	NONE	LOOP 2 BRG WTR PUMPS	I40	TM146	9-10-77	2-SD	3 -4	P1837	NONE	P1767	E1707
PDAL2134	PI21-4	LOOP 2 BRG WTR PUMPS	(I02)	NONE	9-13	—	3 -4	P2052	NONE	P.0834	E1892
POSL2134 -B	PI21-4	LOOP 2 BRG WTR PUMPS	I40	BT142	9-16-77	2-SD	3 -4	P1837	NONE	P1767	E1707
LC2135 A	PI21-4	BRG WTR SURGE TANK 1A	LOCAL	LI101	9-17-77	1-SD A	3 -2B6	NONE	PI822A6	NONE	NONE
LH2135 -A	PI82-2	BRG WTR SURGE TANK 1A	LOCAL	NONE	9-18-77	1-SD A	2 -2	NONE	PI822A6		
LV2135-1 A	PI21-4	BRG WTR SURGE TANK 1A	LOCAL	CV105	9-18	1-SD A	3 -3D4	NONE	PI822B1	NONE	NONE
LV2135-2 A	PI21-4	BRG WTR SURGE TANK 1A	LOCAL	CV105	9-18	1-SD A	3 -2B5	NONE	PI822A5	NONE	NONE
5 PS2135 -B	PI82-7	BRG WTR TNK 1A BACKUP AIR	LOCAL	PSS16	1-1-77	NS	3 -206	P2168	PI827	P0831	E1909
HSV2135-1	PI82-2	BRG WTR SURGE TANK 1A	LOCAL	NONE	1-			P553			E1454
HSV2135-2	PI82-2	BRG WTR SURGE TANK 1A	LOCAL	NONE	1-			P553			E1454
LSV2135	PI82-2	BRG WTR SURGE TANK 1A	LOCAL	NONE	9-18			P553	PI822	P1726	E1455
LSV2135-1	PI82-2	BEARING WTR SURGE TK 1A	LOCAL	NONE	9-18		-3D4	P553	NONE		E1804
PAL2135	PI82-7	BRG WTR TNK 1A BACKUP AIR	(I13)	NONE	9-18	—	3 -304	P2168	NONE	P0831	E1909

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FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 170

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE OJ	INST LOC	INST DATA SHEET	PROCURE MENT SPEC	ELECT POWER SUPPLY	INST LOCATION OPAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
6 XEP2135 A	PI82-2	BRG WTR SURGE TANK 1A	LOCAL	NONE	96-77	1-SD	2 -2A5	P553	PI822		E1540
LC2136 A	PI21-4	BRG WTR SURGE TANK 1B	LOCAL	LI101	93-78	2-SD 3	3 -2B4	NONE	PI822A6	NONE	NONE
LH2136 A	PI82-2	BRG WTR SURGE TANK 1B	LOCAL	NONE	93-78	2-SD 1	2 -2	NONE	PI822A6		
LV2136-1 A	PI21-4	BRG WTR SURGE TANK 1B	LOCAL	CV105	9	2-SD 3	3 -304	NONE	PI822B1	NONE	NONE
LV2136-2 A	PI21-4	BRG WTR SURGE TANK 1B	LOCAL	CV105	9	2-SD 3	3 -2B5	NONE	PI822A6	NONE	NONE
5 PS2136 B	PI8. 7	BRG WTR TNK 1B BACKUP AIR	LOCAL	PS516	1-7-78	NS	3 -2A4	P2168	PI827	P0831	E1909
HSV2136-1	PI82-2	BRG WTR SURGE TANK 1B	LOCAL	NONE	1 -			P554			E1472
HSV2136-2	PI82-2	BRG WTR SURGE TANK 1B	LOCAL	NONE	1 -			P554			E1472
LSV2136	PI82-2	BRG WTR SURGE TANK 1B	LOCAL	NONE	9 -			P554	PI822	P1726	E1472
LSV2136-1	PI82-2	BEARING WTR SURGE TK 1B	LOCAL	NONE	9 -		-304	P554	NONE		E1804
PAL2136	PI82-7	BRG WTR TNK 1B BACKUP AIR	LOCAL	I13	NONE	9 - 3	3	P2168	NONE	P0831	E1909
6 XEP2136 A	PI82-2	BRG WTR SURGE TANK 1B	LOCAL	NONE	96-77	2-SD	2 -2B4	P554	PI822		E1540
HS2137	NONE	BRG WTR SURGE TK 1A OUT	I01	NONE	9 -			P470	NONE	P724	E1290
LV2137 A	PI21-4	BRG WTR SURGE TK 1A OUT	LOCAL	21-1-6	9 -	1-SD	3 -2B6	P470	PI822A4	P0719	E1449
LAL2137	PI21-4	BRG WTR SURGE TK 1A OUT	LOCAL	I02	NONE	9 - 3	3	P2043	NONE	P0785	E1883
LSL2137 A	PI21-4	BRG WTR SURGE TANK 1A	LOCAL	PS126	1-5-77	1-SD	3 -2B6	P0470	M250C	P0719	E1449
HS2138	NONE	BRG WTR SURGE TK 1B OUT	I01	NONE	9 -			P471	NONE	P2542	E1293
LV2138 A	PI21-4	BRG WTR SURGE TK 1B OUT	LOCAL	21-1-6	9 -	2-SD	3 -2A4	P471	PI822B4	P2542	E1470

FROM 2135 TO 2138

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 9C-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR C1 DWG 02	SERVICE C3	INST LOC ATION C4	INST DATA SHEET 05	PROCURE MENT SPEC C6	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
LAL2138	PI21-4	BRG WTR SURGE TK 1B OUT	I02	NONE	9 13		3	P2053	NONE	P0785	E1470
LSL2138 <i>A</i>	PI21-4	BRG WTR SURGE TANK 1B	LOCAL	PS126	2-77	2-SD	3 -284	P471	M2500	P2542	E1470
WTI2139 <i>D</i>	PI21-3	BUFF HE RECIRC 1A DISCH	LOCAL	TI104	1-6-78	10-SD		NONE	NONE	NONE	NONE
TW2139	PI21-3	BUFF HE RECIRC 1A DISCH	LOCAL	TW116	9- 102			NONE	M134A	NONE	NONE
WTI2140 <i>D</i>	PI21-3	BUFF HE RECIRC 1C DISCH	LOCAL	TI104	1-6-78	10-SD		NONE	NONE	NONE	NONE
TW2140	PI21-3	BUFF HE RECIRC 1C DISCH	LOCAL	TW116	9- 102		E9	NONE	M134A	NONE	NONE
FE2141 <i>A</i>	PI21-3	BUFF HE RECIRC LOOP 1	LOCAL	FE105	9- 1		-206	NONE	M234A2	NONE	NONE
FI2141 <i>B</i>	PI21-3	BUFF HE RECIRC LOOP 1	I02	EI132	95-77:1	1-SD	3	P1832	NONE	P2231	E1297
B FT2141 <i>A</i>	PI21-3	BUFF HE RECIRC LOOP 1	I132	TM117	95-77:2	1-SD	3 -3C1	P1832	M134B	P1691	E1536
FAL2141	PI21-3	RECIRC STBY UNIT START	I02	NONE	9- 13		3	P2041	NONE	P0776	E1453
FSL2141 <i>B</i>	PI21-3	BUFF HE RECIRC LOOP 1	I39	BT142	99-77:1	1-SD	3	P1832	NONE	P1760	E1707
XPS2141 <i>B</i>	NONE	BUFF HE RECIRC LOOP 1	I39	MS111	9 06:1		3	P1832	NONE	P1760	E1707
FE2142 <i>A</i>	PI21-3	BUFF HE RECIRC LOOP 2	LOCAL	FE105	9- 1		-206	NONE	M234A3	NONE	NONE
FI2142 <i>B</i>	PI21-3	BUFF HE RECIRC LOOP 2	I02	EI132	96-77:1	2-SD	3	P1832	NONE	P2230	E1297
B FT2142 <i>A</i>	PI21-3	BUFF HE RECIRC LOOP 2	I132	TM117	9 6/77:2	2-SD	3 -3C1	P1832	M134B	P1691	E1536
FAL2142	PI21-3	RECIRC STBY UNIT START	I02	NONE	9- 13		3	P2051	NONE	P0785	E1468
FSL2142 <i>B</i>	PI21-3	BUFF HE RECIRC LOOP 2	I40	BT142	99-77:1	2-SD	3	P1832	NONE	P1767	E1707

FROM 2138 TO 2144

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 172

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
XPS2142	B	NONE	BUFF HE RECIRC LOOP 2	I40	MS111	9-26-77 2	3	P1832	NONE	P1767	E1707
PH2143	B	PI21-3	BUFF HE RECIRC LOOP 1	I132	PI122	9-5-77 2	1-SD	-3C1 NONE	PI824A5	NONE	NONE
5/77 PH2143-1	B	PI82-4	LOOP 1 BUFFER HE RECIRC	I132	PI138	9-5/77 2	1-SD	-3C1			?
PH2143-2	B	PI82-4	LOOP 1 BUFFER HE RECIRC	I132	PI138	9 2	1-SD	-3C1			?
PDV2143	A	PI21-3	BUFF HE RECIRC LOOP 1	LOCAL	CV117	9 3	1-SDA	-2D6 NONE	PI822B1	NONE	NONE
B PDIC2143	A	PI21-3	BUFF HE RECIRC LOOP 1	I132	DP101	9-5-77/12	1-SD	-3C1 NONE	M134B	NONE	NONE
PH2144	B	PI21-3	BUFF HE RECIRC LOOP 2	I132	PI122	9-6-77	2-SD	-3C1 NONE	PI822A5	NONE	NONE
1/77 PH2144-1	B	PI82-4	LOOP 2 BUFFER HE RECIRC	I132	PI138	9-6/77	1-SD	-3C1			?
PH2144-2	B	PI82-4	LOOP 2 BUFFER HE RECIRC	I132	PI138	9 1	1-SD	-3C1			?
PDV2144	A	PI21-3	BUFF HE RECIRC LOOP 2	LOCAL	CV117	9 1	2-SD3	-2D5 NONE	PI822B1	NONE	NONE
B PDIC2144	A	PI21-3	BUFF HE RECIRC LOOP 2	I132	DP101	9-2-77 2	2-SD	-3C1 NONE	M134B	NONE	NONE
B LS2145	A	PI21-3	RECIR CONTAINMENT TK 1A	LOCAL	PS127	1-5/75	1-SD	-2D6 P2023	M250B	PO816	E1812
LAH2145		PI21-3	RECIR CONTAINMENT TK 1A	101	NONE	9 3		P2023	NONE	PO816	E1890
LS2146	A	PI21-3	RECIR CONTAINMENT TK 1C	LOCAL	PS127	1-5/75	2-SD	-2D6 P2027	M250B	PO817	E1883
LAH2146		PI21-3	RECIR CONTAINMENT TK 1C	101	NONE	9 3		P2027	NONE	PO817	E1812
POI2147	B	PI21-4	LP 1 SURGE TK-PCRV ΔP	IO2	EI160	9-5-77	NS	2	P1834	NONE	P1689 E1708



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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 173

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG G2	SERVICE	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
3 PDT2147 <i>A</i>	PI21-4	BRG WTR SURGE TANK 1A	IO2	TM235	95-7812	NS	2 -106	P1834	NONE	P1708	E1708
PDI2148 <i>B</i>	PI21-4	LP 2 SURGE TK-PCRV 4P	IO2	E1160	95-782	NS	2	P1834	NONE	P1708	E1708
B PDT2148 <i>AL</i>	PI21-4	BRG WTR SURGE TANK 1B	LOCAL	TM235	95-7812	NS	2 -103	P1834	NONE	P1661	E1708
1 FE2151 <i>A</i>	PI21-3	DRYER BED REGEN PURGE	S2101	NONE	2 1		CH	NONE	PRITCH	NONE	NONE
FCV2151 <i>A</i>	PI21-3	DRYER BED REGEN PURGE	S2101	CV119	2 1	NS	2 CH	NONE	MASONEIL	NONE	NONE
FIC2151 <i>A</i>	PI21-3	DRYER BED REGEN PURGE	S2101	NONE	2 6-78	NS	2 CH	NONE	M134B	NONE	NONE
FIS2151 <i>A</i>	PI21-3	DRYER BED REGEN PURGE	S2101	NONE	1-78	NS	2				
HS2152	PI21-3	HE DRYER BYPASS	IO2	CS134	9			P460	NONE	P2611	E1293
HV2152	PI21-3	HE DRYER BYPASS	LOCAL	21-2-1	9	NS	-204	P460	PI822A4	P2611	E1292
ZI2152	PI21-3	HE DRYER BYPASS	IO2	CS134	9			P460	NONE	P2611	E1275
ZS2152	PI21-3	HE DRYER BYPASS	LOCAL	21-2-1	9			P460	NONE	P.2611	E1804
DPDS2152 <i>A</i>	PI21-3	HE DRYER BYPASS	LOCAL	PS110	9 NE 12	FF	-304	P460	M134B	P2649	E1803
POAH2152	PI21-3	HE DRYER BYPASS	<u>IO2</u>	NONE	9 3			P2054	NONE	P0783	E1489
HS2153	PI21-5	LOOP 1 BRG WTR FILTERS	IO2	CS134	9 2			P0461	NONE	P2609	E1290
HV2153-1	PI21-5	LOOP 1 BRG WTR FILTERS	LOCAL	21-1-27	9 1	VSD	-285	P461	PI822B6	P2609	E1800
HV2153-2	PI21-5	LOOP 1 BRG WTR FILTERS	LOCAL	21-1-27	9 1	VSD	-2A5	P461	M234E3	P2609	E1800
ZI2153-1	PI21-5	BRG WTR FILTER 1A	IO2	CS134	9 2			P461	NONE	P2609	E1274

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE 8  
 DATE 12-12-77 SHEET 174

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB	ELECT CONN DRAWING	
01	02	03	04	05	06	07	08	09	10	11	12	
ZI2153-2	PI21-5	BRG WTR FILTER 1B	IO2	CS134	9			P461	NONE	P2609	E1274	
ZS2153-1	PI21-5	BRG WTR FILTER 1A	LOCAL	21-1-27	9			P461	NONE	P2609	E1290	
ZS2153-2	PI21-5	BRG WTR FILTER 1B	LOCAL	21-1-27	9			P461	NONE	P2609	E1290	
HS2154	PI21-5	LOOP 2 BRG WTR FILTERS	IO2	CS134	9			P462	NONE	P2611	E1293	
HV2154-1	PI21-5	LOOP 2 BRG WTR FILTERS	LOCAL	21-1-27	9	2-SD	-2B4	P462	PI822A1	P2611	E1801	
HV2154-2	PI21-5	LOOP 2 BRG WTR FILTERS	LOCAL	21-1-27	9	2-SD	-2B4	P462	PI822A1	P2611	E1801	
ZI2154-1	PI21-5	BRG WTR FILTER 1C	IO2	CS134	9			P462	NONE	P2611	E1275	
ZI2154-2	PI21-5	BRG WTR FILTER 1D	IO2	CS134	9			P462	NONE	P2611	E1275	
ZS2154-1	PI21-5	BRG WTR FILTER 1C	LOCAL	21-1-27	9			P462	NONE	P2611	E1293	
ZS2154-2	PI21-5	BRG WTR FILTER 1D	LOCAL	21-1-27	9			P462	NONE	P2611	E1293	
PDAH2155	PI21-5	LOOP 1 BRG WTR FILTERS	IO2	NONE	9	03		P2042	NONE	P0783	E1489	
PDIS2155	PI21-5	LOOP 1 BRG WTR FILTERS	LOCAL	PS111	9.3	02	NS	2 -2B5	P461	130.8.6	P2609	E1805
PDAH2156	PI21-5	LOOP 2 BRG WTR FILTERS	IO2	NONE	9	03		P2052	NONE	P0834	E1489	
PDIS2156	PI21-5	LOOP 2 BRG WTR FILTERS	LOCAL	PS111	9.4-78	02	NS	2 -2B4	P462	130.8.6	P2611	E1805
TI2157	PI21-3	BUFFER HE COOLER 1A OUT	LOCAL	TI104	1-6-78		NS		NONE	NONE	NONE	NONE
TW2157	PI21-3	BUFFER HE COOLER 1A OUT	LOCAL	TW116	9	02		19	NONE	M134A	NONE	NONE
TI2158	PI21-3	BUFFER HE COOLER 1C OUT	LOCAL	TI104	1-6-78		NS		NONE	NONE	NONE	NONE

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	ION ING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TW2158	PI21-3	BUFFER HE COOLER 1C OUT	LOCAL	TW116	9- 102		110	NONE	M134A	NONE	NONE
TI2159 D	PI21-5	BRG WTR COOLER 1A INLET	LOCAL	TI104	1-6-78	40 57		NONE	NONE	NONE	NONE
TW2159	PI21-5	BRG WTR COOLER 1A INLET	LOCAL	TW116	9 - 102		16	NONE	M134A	NONE	NONE
TI2160 D	PI21-5	BRG WTR COOLER 1A OUTLET	LOCAL	TI104	1-6-78	40 57		NONE	NONE	NONE	NONE
TW2160	PI21-5	BRG WTR COOLER 1A OUTLET	LOCAL	TW116	9- 102		16	NONE	M134A	NONE	NONE
TI2161 D	PI21-5	BRG WTR COOLER 1B INLET	LOCAL	TI104	1-6-78	40 57		NONE	NONE	NONE	NONE
TW2161	PI21-5	BRG WTR COOLER 1B INLET	LOCAL	TW116	9- 102		16	NONE	M134A	NONE	NONE
TI2162 D	PI21-5	BRG WTR COOLER 1B OUTLET	LOCAL	TI104	1-6-78	40 57		NONE	NONE	NONE	NONE
TW2162	PI21-5	BRG WTR COOLER 1B OUTLET	LOCAL	TW116	93 - 02		16	NONE	M134A	NONE	NONE
TI2163 D	PI21-5	BRG WTR COOLER 1C INLET	LOCAL	TI104	1-6-78	40 57		NONE	NONE	NONE	NONE
TW2163	PI21-5	BRG WTR COOLER 1C INLET	LOCAL	TW116	93 - 02		110	NONE	M134A	NONE	NONE
TI2164 D	PI21-5	BRG WTR COOLER 1C OUTLET	LOCAL	TI104	1-6-78	40 57		NONE	NONE	NONE	NONE
TW2164	PI21-5	BRG WTR COOLER 1C OUTLET	LOCAL	TW116	93 - 02		110	NONE	M134A	NONE	NONE
TI2165 D	PI21-5	BRG WTR COOLER 1D INLET	LOCAL	TI104	1-6-78	40 57		NONE	NONE	NONE	NONE

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

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INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC	INST DATA SHEET	PROCUREMENT SPEC	ELECT PNEU POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
TW2165	PI21-5	BRG WTR COOLER 1D INLET	LOCAL	TW116	9 - 102			NONE	M134A	NONE	NONE
<i>VI</i> TW2166 <i>D</i>	PI21-5	BRG WTR COOLER 1D OUTLET	LOCAL	TI104	16-78			NONE	NONE	NONE	NONE
TW2166	PI21-5	BRG WTR COOLER 1D OUTLET	LOCAL	TI116	9 - 102			NONE	M134A	NONE	NONE
FC2167 <i>B</i>	PI21-7	BUFFER HE TO CIRC 1A	IO2	CR140	6-78-2	A-SD	1	P1842	NONE	P2633	E1710
FE2167 <i>A</i>	PI21-7	BUFFER HE TO CIRC 1A	LOCAL	FE120	-9			NONE	M234A2	NONE	NONE
FI2167 <i>B</i>	PI21-7	BUFFER HE TO CIRC 1A	IO2	EI132	7-78-2	A-SD	3, 1	P1842	NONE	P2232	E1297
<i>CI</i> FT2167 <i>A</i>	PI21-7	BUFFER HE TO CIRC 1A	I128	TM118	7-78-12	A-SD	3, 1	P1842	M134B	P1690	E1536
FV2167 <i>A</i>	PI21-7	BUFFER HE TO CIRC 1A	LOCAL	CV118	-5	A-SD	1	NONE	P1822A4	NONE	NONE
<i>VI</i> XEP2167 <i>B</i>	PI82	BUFFER HE TO CIRC 1A	LOCAL	CV118	7-78-5	A-SD	2	P1842	P1822A4	P1656	E1772
XPS2167 <i>B</i>	NONE	BUFFER HE TO CIRC 1A	I39	MS111	16-78-2	A-SD	1	P1842	NONE	P1762	E1710
FAHL2167	PI21-7	BUFFER HE TO CIRC 1A	<u>IO2</u>	NONE	-63		3	P2038	NONE	P1762	E1891
FSHL2167 <i>B</i>	PI21-7	BUFFER HE TO CIRC 1A	<u>IO2</u>	NONE	-63	A	3	P1842	NONE	P1762	E1891
FC2168 <i>B</i>	PI21-9	BUFFER HE TO CIRC 1C	IO2	CR140	6-77-2	C-SD	1	P1842	NONE	P2634	E1710
FE2168 <i>A</i>	PI21-9	BUFFER HE TO CIRC 1C	LOCAL	FE120	-9			NONE	M19687	NONE	NONE
FI2168 <i>B</i>	PI21-9	BUFFER HE TO CIRC 1C	IO2	EI132	6-77-2	C-SD	3, 1	P1842	NONE	P2232	E1297
FT2168 <i>A</i>	PI21-9	BUFFER HE TO CIRC 1C	I139	TM118	6-78-12	C-SD	3, 1	P1842	M134B	P1691	E1537
FV2168 <i>A</i>	PI21-9	BUFFER HE TO CIRC 1C	LOCAL	CV118	-5	C-SD	1	NONE	P1822B4	NONE	NONE
<i>VI</i> XEP2168 <i>B</i>	PI82	BUFFER HE TO CIRC 1C	LOCAL	CV118	6-77-5	C-SD	2	P1842	P1822B4	P1656	E1772

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

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INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
XPS2168	B	NONE	BUFFER HE TO CIRC 1C	I40	MS111	9 NE: C-SD	1	P1842	NONE	P1762	E1710
FAHL2168		PI21-9	BUFFER HE TO CIRC 1C	I02	NONE	9 .3	3	P2049	NONE	P1762	E1892
FSHL2168	B	PI21-9	BUFFER HE TO CIRC 1C	I70	NONE	9 .3 C-SD	3	P1842	NONE	P1762	E1892
FC2169	B	PI21-8	BUFFER HE TO CIRC 1B	I02	CR140	9 6-77: B-SD	1	P1843	NONE	P2633	E1710
FE2169	A	PI21-8	BUFFER HE TO CIRC 1B	LOCAL	FE120	9 .1	-2C6	NONE	M234A2	NONE	NONE
FI2169	B	PI21-8	BUFFER HE TO CIRC 1B	I02	EI132	9 6-77: B-SD	3,1	P1843	NONE	P1761	E1297
FT2169	A	PI21-8	BUFFER HE TO CIRC 1B	I130	TM118	9 5-78.2 B-SD	3,1	-3D1 P1843	M134B	P1761	E1710
FV2169	A	PI21-8	BUFFER HE TO CIRC 1B	LOCAL	CV118	9 .1 B-SD A	1	-2C6 NONE	PI822A4	NONE	NONE
XEP2169	B	PI82	BUFFER HE TO CIRC 1B	LOCAL	CV118	9 6-77: B-SD	2	-2C6 P1843	PI822A4	P1659	E1772
XPS2169	B	NONE	BUFFER HE TO CIRC 1B	I39	MS111	9 NE: B-SD	1	P1843	NONE	P1762	E1710
FAHL2169		PI21-8	BUFFER HE TO CIRC 1B	I02	NONE	9 .3	3	P2038	NONE	P1762	E1891
FSHL2.69	B	PI21-8	BUFFER HE TO CIRC 1B	I70	NONE	9 .3	3	P1843	NONE	P1762	E1891
FC2170	B	PI21-10	BUFFER HE TO CIRC 1D	I02	CR140	9 6-77: D-SD	1	P1843	NONE	P2634	E1710
FE2170	A	PI21-10	BUFFER HE TO CIRC 1D	LOCAL	FE120	9 .1	-2C4	NONE	M234B7	NONE	NONE
FI2170	B	PI21-10	BUFFER HE TO CIRC 1D	I02	EI132	9 6-77: D-SD	3,1	P1843	NONE	P1761	E1297
FT2170	A	PI21-10	BUFFER HE TO CIRC 1D	I140	TM118	9 5-78.2 D-SD	3,1	-3B1 P1843	M134B	P1692	E1537
FV2170	A	PI21-10	BUFFER HE TO CIRC 1D	LOCAL	CV118	9 .1 D-SD	1	-2C4 NONE	PI822B4	NONE	NONE
XEP2170	3	PI82	BUFFER HE TO CIRC 1D	LOCAL	CV118	9 6-77: D-SD	2	-2C4 P1843	PI822B4	P1661	E1772
XPS2170	B	NONE	BUFFER HE TO CIRC 1D	I40	MS111	9 NE: D-SD	1	P1843	NONE	P1762	E1710

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INSTRUMENT  
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01

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CI DWG  
02

SERVICE  
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SHEET  
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PROCURE  
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06

ELECT  
POWER  
SUPPLY  
07

INST  
LOCATION  
DRAWING  
08

ELEM  
SCHEME  
DRAWING  
09

CABLE  
TAB  
DRAWING  
11

ELECT  
CONN  
DRAWING  
12

FAHL2170 P121-10 BUFFER HE TO CIRC 10 I02 NONE 9 13

FSHL2170 B P121-10 BUFFER HE TO CIRC 10 I70 NONE 9 13

FC2171 B P121-7 CIRC 1A BUFFER HE RETURN I02 CR141 9-7-78; A-SD

FE2171 A P121-7 CIRC 1A BUFFER HE RETURN LOCAL FE118 9

FI2171 B P121-7 CIRC 1A BUFFER HE RETURN I02 EI132 9-7-78; A-SD

FI2171 A P121-7 CIRC 1A BUFFER HE RETURN I128 TM119 9-5-78; 2 A-SD

FV2171 A P121-7 CIRC 1A BUFFER HE RETURN LOCAL CV119 9

XEP2171 B P182 CIRC 1A BUFFER HE RETURN LOCAL CV119 9-7-78; A-SD

XPS2171 B NONE CIRC 1A BUFFER HE RETURN I39 MS111 9-10-76; A-SD

FAHL2171 P121-7 CIRC 1A BUFFER HE RETURN I02 NONE 9 13

FSHL2171 B P121-7 CIRC 1A BUFFER HE RETURN I70 NONE 9 13

FC2172 B P121-9 CIRC 1C BUFFER HE RETURN I02 CR141 9-6-77; C-SD

FE2172 A P121-9 CIRC 1C BUFFER HE RETURN LOCAL FE118 9

FI2172 B P121-9 CIRC 1C BUFFER HE RETURN I02 EI132 9-6-77; C-SD

FI2172 A P121-9 CIRC 1C BUFFER HE RETURN I139 TM119 9-5-78; 2 C-SD

FV2172 A P121-9 CIRC 1C BUFFER HE RETURN LOCAL CV119 9

XEP2172 B P182 CIRC 1C BUFFER HE RETURN LOCAL CV119 9-6-77; C-SD

XPS2172 B NONE CIRC 1C BUFFER HE RETURN I40 MS111 9-10-76; C-SD

FAHL2172 P121-9 CIRC 1C BUFFER HE RETURN I02 NONE 9 13

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DRAWING  
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INSTALL  
DRAWING  
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DRAWING  
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ELEM  
SCHEME  
DRAWING  
09

INST  
LOCATION  
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POWER  
SUPPLY  
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SERVICE  
03

CI DWG  
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03

FSHL2172 B PI21-9 CIRC 1C BUFFER HE RETURN 170

FC2173 B PI21-8 CIRC 1B BUFFER HE RETURN 102

FE2173A PI21-8 CIRC 1B BUFFER HE RETURN LOCAL

FI2173 B PI21-8 CIRC 1B BUFFER HE RETURN 102

FT2173A PI21-8 CIRC 1B BUFFER HE RETURN 1130

FV2173 A PI21-8 CIRC 1B BUFFER HE RETURN LOCAL

XEP2173 B PI82 CIRC 1B BUFFER HE RETURN LOCAL

XPS2173 B NONE CIRC 1B BUFFER HE RETURN 139

FAHL2173 PI21-8 CIRC 1B BUFFER HE RETURN 102

FSHL2173 B PI21-8 CIRC 1B BUFFER HE RETURN 170

FC2174 B PI21-10 CIRC 1D BUFFER HE RETURN 102

FE2174 A PI21-10 CIRC 1D BUFFER HE RETURN LOCAL

FI2174 B PI21-10 CIRC 1D BUFFER HE RETURN 102

FT2174 A PI21-10 CIRC 1D BUFFER HE RETURN 1140

FV2174 A PI21-10 CIRC 1D BUFFER HE RETURN LOCAL

XEP2174 B PI82 CIRC 1D BUFFER HE RETURN LOCAL

XPS2174 B NONE CIRC 1D BUFFER HE RETURN 140

FAHL2174 PI21-10 CIRC 1D BUFFER HE RETURN 102

FSHL2174 B PI21-10 CIRC 1D BUFFER HE RETURN 170

INSTRUMENT LIST  
FORT ST VRAIN UNIT  
PUBLIC SERVICE COMPANY OF  
COLORADO

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CABLE  
TAB  
DRAWING  
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ELECT  
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DRAWING  
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GULF GENERAL ATOMIC  
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LISTED BY SYSTEM 21

INSTRUMENT  
NUMBER  
01

PI OR  
CI DWG  
02

SERVICE  
03

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ELECT  
POWER  
SUPPLY  
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LOCATION  
DRAWING  
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ELEM  
SCHEME  
DRAWING  
09

CABLE  
TAB  
DRAWING  
11

ELECT  
CONN  
DRAWING  
12

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATTION	INST DATA SHEET	PROCURE MENT SPEC	ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	C4	C5	06	07	08	09	11	12
HC2175-1A	PI21-7	HE CIRC 1A MN DRN	I02	RI101	9 6-78	A-SD	1			E1282
HS2175-1	PI21-7	CIRC 1A MAIN DRAIN BYPASS	I02	NONE	9			P478A	2642	E1279
PH2175-1A	PI21-7	HE CIRC 1A MN DRN	I39A	TM229	9 2-78	A-SD	1			E1713
PH2175-1A	PI82-2	CIRC 1A MAIN DRAIN	I124	PI136	9 ME	A-SD	3			
HSV2175-1	PI82-2	CIRC 1A MAIN DRAIN BYPASS	LOCAL	NONE	9			P478A	2642	E1805
POC2175-1A	PI21-7	CIRC 1A MAIN DRAIN	I124	OP102	9 2-78	A-SD	1	NONE	EMANON	NONE
POT2175-1A	PI21-7	CIRC 1A MAIN DRAIN	I126	TH199	9 7/78	A-SD	1	NONE	M133H	NONE
<del>POT2175-1A</del>	<del>PI21-7</del>	<del>HE CIRC 1A MN DRN</del>	<del>I126</del>	<del>TH199</del>	<del>9 12</del>	<del></del>	<del>1</del>	<del>NONE</del>	<del>M133H</del>	<del>NONE</del>
POV2175-1A	PI21-7	CIRC 1A MAIN DRAIN	LOCAL	CV103	9 3	A-SD	1	NONE	PI82282	NONE
POV2175-1A	PI21-7	CIRC 1A MAIN DRAIN	LOCAL	CV138	9 3	A-SD	3	NONE		NONE
XEP2175-1A	PI21-7	HE CIRC 1A MN DRN	I124	RI100	9 7/78	A-SD	1			E1535
XPS2175-1A	NONE	HE CIRC 1A MN DRN	I39A	RI101	9 ME 2	A-SD	1			E1713
HC2176-1A	PI21-9	HE CIRC 1C MN DRN	I02	RI101	9 6-77	C-SD	1			E1283
HS2176-1	PI21-9	CIRC 1C MAIN DRAIN BYPASS	I02	NONE	9 2			P490A	2642	E1280
PH2176-1A	PI21-9	HE CIRC 1C MN DRN	I40A	TM229	9 2-78	C-SD	1			E1713
PH2176-1A	PI82-2	CIRC 1C MAIN DRAIN	I136	PI136	9 ME 2	C-SD	3			
HSV2176-1	PI82-2	CIRC 1C MAIN DRAIN BYPASS	LOCAL	NONE	9 2			P490A	2642	E1805
POC2176-1A	PI21-9	CIRC 1C MAIN DRAIN	I136	OP102	9 2-78	C-SD	1	NONE	EMANON	NONE
POT2176-1A	PI21-9	CIRC 1C MAIN DRAIN	I137	TH199	9 7/12	C-SD	1	NONE	M133H	NONE
POV2176-1A	PI21-9	CIRC 1C MAIN DRAIN	I137	TH199	9 12			NONE	M133H	NONE



ILO20U

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
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GULF GENERAL ATOMIC  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
PDV2176 <i>As A1</i>	PI21-9	CIRC 1C MAIN DRAIN	LOCAL	CV103	9 5	C-SD	1	NONE	PI822B2	NONE	NONE
PDV2176-1 <i>A</i>	PI21-9	CIRC 1C MAIN DRAIN	LOCAL	CV138	9 5	C-SD	3	NONE		NONE	NONE
6 XEP2176 <i>As A</i>	PI21-9	HE CIRC 1C MN DRN CNTL	I136	RI100	9 6-77-2	C-SD	1				E1537
XPS2176 <i>As A</i>	NONE	HE CIRC 1C MN DRN CNTL	I40A	RI101	9 <i>NE</i> 2	C-SD	1				E1713
HC2177 <i>A</i>	PI21-8	HE CIRC 1B MN DRN CNTL	I02	RI101	9 6-78-2	B-SD	1		E1267		E1283
HS2177-1	PI21-8	CIRC 1B MAIN DRAIN BYPASS	I02	NONE	9 2			P484A	NONE	2642	E1279
PM2177 <i>A</i>	PI21-8	HE CIRC 1B MN DRN CNTL	I39A	TM229	9 6-77-2	B-SD	1				E1713
PM2177-1 <i>A</i>	PI82-2	CIRC 1B MAIN DRAIN	I133	PI136	9 <i>NE</i> 2	B-SD	3				
4 HSV2177-1 <i>A</i>	PI82-2	CIRC 1B MAIN DRAIN BYPASS	LOCAL	NONE	9 2			P484A	NONE	2642	E1805
PDC2177 <i>A</i>	PI21-8	CIRC 1B MAIN DRAIN	I133	DP102	9 2-78-2	B-SD	1	NONE	EMANON	NONE	NONE
<del>PI2177-2 <i>A</i></del>											
PDT2177-1 <i>A</i>	PI21-8	CIRC 1B MAIN DRAIN	I132	TM199	9 2-77-12	B-SD	1	NONE	M133H	NONE	NONE
PDT2177-2 <i>A</i>	PI21-8	CIRC 1B MAIN DRAIN	LOCAL	NONE	9 2		1	NONE		NONE	NONE
PDV2177 <i>A</i>	PI21-8	CIRC 1B MAIN DRAIN	LOCAL	CV103	9 5	B-SD	1	NONE	PI822B2	NONE	NONE
PDV2177-1 <i>A</i>	PI21-8	CIRC 1B MAIN DRAIN	LOCAL	CV138	9 5	B-SD	3	NONE		NONE	NONE
6 XEP2177 <i>A</i>	PI21-8	HE CIRC 1B MN DRN CNTL	I133	RI100	9 2-77-2	B-SD	1				E1536
XPS2177 <i>A</i>	NONE	HE CIRC 1B MN DRN CNTL	I39A	RI101	9 5-75-2	B-SD	1				E1713
HC2178 <i>A</i>	PI21-10	HE CIRC 1D MN DRN CNTL	I02	RI101	9 6-77-2	B-SD	1		E1267		E1283
HS2178-1	PI21-10	CIRC 1D MAIN DRAIN BYPASS	I02	NONE	9 2			P496A	NONE	2642	E1280

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
PH2178 <i>Ae</i>	PI21-10	HE CIRC 1D MN DRN CNTL	I40A	TM229	92-781	D-SD	1				E1713
PH2178-1 <i>Al</i>	PI82-2	CIRC 1D MAIN DRAIN	I143	PI136	9 ?	D-SD	3				
<i>4</i> HSY2178-1	PI82-2	CIRC 1D MAIN DRAIN BYPASS LOCAL	LOCAL	NONE	9 ?			P496A	NONE	2642	E1805
PDC2178 <i>Aa</i>	PI21-10	CIRC 1D MAIN DRAIN	I143	DP102	96-782	D-SD	1	NONE	EMANON	NONE	NONE
PDT2178-1 <i>Aa</i>	PI21-10	CIRC 1D MAIN DRAIN	I142	TM199	96-7712	D-SD	1	NONE	M133H	NONE	NONE
<i>11</i> PDV2178-2 <i>Al</i>	PI21-10	CIRC 1D MAIN DRAIN	I142	TM199	9 12						
PDV2178 <i>Al</i>	PI21-10	CIRC 1D MAIN DRAIN	LOCAL	CV103	9 5	D-SD	1	NONE	PI822B2	NONE	NONE
PDV2178-1 <i>Al</i>	PI21-10	CIRC 1D MAIN DRAIN	LOCAL	CV138	9 5	D-SD	3	NONE		NONE	NONE
<i>6</i> XEP2178 <i>As</i>	PI21-10	HE CIRC 1D MN DRN CNTL	I143	RI100	56-712	D-SD	1				E1537
XPS2178 <i>Al</i>	PI21-10	HE CIRC 1D MN DRN CNTL	I40A	RI101	55-752	D-SD	1				E1713
PH2179 <i>B</i>	PI21-7	CIRC 1A STEAM/WATER DRAIN	I124	PI117	7/78 2	A-SD	1	NONE	EMANON	NONE	NONE
PDC2179 <i>B</i>	PI21-7	CIRC 1A STEAM/WATER DRAIN	I124	PI114	7/78 2	A-SD	1	NONE	EMANON	NONE	NONE
PDI2179 <i>B</i>	PI21-7	CIRC 1A STEAM/WATER DRAIN	102	EI131	7/78 2	A-SD	3	P1835	NONE	P2229	E1297
PDS2179 <i>B</i>	PI21-7	CIRC 1A STEAM/WATER DRAIN	I70	NONE	-63	A-SD	3	P1835	NONE	P1780	E1712
PDT2179 <i>B</i>	PI21-7	CIRC 1A STEAM/WATER DRAIN	I125	TM130	7/78 2	A-SD	3	P1835	M133G	P1779	E1712
PDT2179-1 <i>B</i>	PI21-7	CIRC 1A STEAM/WATER DRAIN	I126	PI113	7/78 2	A-SD	1	NONE	M133G	NONE	NONE
PDV2179 <i>B</i>	PI21-7	CIRC 1A STEAM/WATER DRAIN	LOCAL	CV104	-5	A-SD	1	NONE	PI822D4	NONE	NONE
XPS2179 <i>B</i>	PI21-1	CIRC 1A STEAM/WATER DRAIN	I294	NONE	AE-2	A-SD	3		NONE		
PUAHL2179	PI21-7	CIRC 1A STEAM/WATER DRAIN	I02	NONE	-63			P2040	NONE	P.1780	E1891
PH2180 <i>B</i>	PI21-9	CIRC 1C STEAM/WATER DRAIN	I136	PI117	6-77-2	IC-SD	1	NONE	EMANON	NONE	NONE

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INSTRUMENT LIST  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER Q1	PI OR CI DWG Q2	SERVICE Q3	INST LOC ATION Q4	INST DATA SHEET Q5	PROCURE MENT SPEC Q6	PNEU ELECT POWER SUPPLY Q7	INST LOCATION DRAWING Q8	ELEM SCHEME DRAWING Q9	INST INSTALL DRAWING Q10	CABLE TAB DRAWING Q11	ELECT CONN DRAWING Q12
PDC2180 <del>B</del>	PI21-9	CIRC 1C STEAM/WATER DRAIN	I136	PI114	96-77:	C-SD	1 -3B2	NONE	EMANON	NONE	NONE
PDI2180 <del>B</del>	PI21-9	CIRC 1C STEAM/WATER DRAIN	I02	EI131	96-77:	C-SD	3	P1835	NONE	P2229	E1297
PDS2180 B	PI21-9	CIRC 1C STEAM/WATER DRAIN	I70	NONE	9 3		3	P1835	NONE	P1780	E1712
PDT2180 <del>B</del>	PI21-9	CIRC 1C STEAM/WATER DRAIN	I135	TM130	96-77:	C-SD	3 -3B2	P1835	M1336	P1779	E1712
PDT2180-1 <del>B</del>	PI21-9	CIRC 1C STEAM/WATER DRAIN	I135	PI113	96-77:	C-SD	1 -3B2	NONE	M1336	NONE	NONE
PDV2180 B xP5-2180 B	PI21-9	CIRC 1C STEAM/WATER DR/IN LOCAL	CV104	CV104	9 3 NG 3	C-SD C-SD	1 -1B5 3	NONE	P1822D3	NONE	NONE
PM2181 <del>B</del>	PI21-8	CIRC 1B STEAM/WATER DRAIN	I133	PI117	96-77:	B-SD	1 -3C1	NONE	EMANON	NONE	NONE
PDC2181 <del>B</del>	PI21-8	CIRC 1B STEAM/WATER DRAIN	I133	PI114	96-77:	B-SD	1 -3C1	NONE	EMANON	NONE	NONE
PDI2181 <del>B</del>	PI21-8	CIRC 1B STEAM/WATER DRAIN	I02	EI131	96-77:	B-SD	3	P1835	NONE	P2229	E1297
PDS2181 B	PI21-8	CIRC 1B STEAM/WATER DRAIN	I70	NONE	9 63		3	P1835	NONE	P1780	E1712
PDT2181 <del>B</del>	PI21-8	CIRC 1B STEAM/WATER DRAIN	I132	TM130	96-77:	B-SD	3 -3C1	P1835	M1336	P1691	E1712
PDT2181-1 B	PI21-8	CIRC 1B STEAM/WATER DRAIN	I132	PI113	96-77:	B-SD	1 -3C1	NONE	M1336	NONE	NONE
PDV2181 B	PI21-8	CIRC 1B STEAM/WATER DRAIN LOCAL	CV104	CV104	9 5		1 -1D5	NONE	P1822D4	NONE	NONE
? XPS2181 B	PI21-1	CIRC 1B STEAM/WATER DRAIN	I29A	NONE	9 NG 2		3		NONE		
PDAHL2181	PI21-8	CIRC 1B STEAM/WATER DRAIN	I02	NONE	9 63		{ 3 }	P2041	NONE	P1780	E1891
PM2182 <del>B</del>	PI21-10	CIRC 1D STEAM/WATER DRAIN	I143	PI117	9 2	D-SD	1 -3A1	NONE	M1336	NONE	NONE
PDC2182 <del>B</del>	PI21-10	CIRC 1D STEAM/WATER DRAIN	I143	PI114	96-77:	D-SD	1 -3A1	NONE	EMANON	NONE	NONE
PDI2182 <del>B</del>	PI21-10	CIRC 1D STEAM/WATER DRAIN	I02	EI131	96-77:	D-SD	3	P1835	EMANON	P2229	E1297
PDS2182 B	PI21-10	CIRC 1D STEAM/WATER DRAIN	I70	NONE	96-77:63		3	P1835	EMANON	P1780	E1712

FROM 2180 TO 2182

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INSTRUMENT NUMBER	PI OR CI DWG O1	SERVICE O3	INST LOC ATION O4	INST DATA SHEET O5	PROCURE MENT SPEC O6	PNEU ELECT POWER SUPPLY O7	INST LOCATION DRAWING O8	ELEM SCHEME DRAWING O9	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CORN DRAWING 12		
PDT2182	B	PI21-10	CIRC 1D	STEAM/WATER DRAIN	I142	TM130	9-6-77	D-SD	3	P1835	M133G	P1779	E1712
PDT2182-1	B	PI21-10	CIRC 1D	STEAM/WATER DRAIN	I142	PI114	9-10-77	D-SD	1	NONE	M133G	NONE	NONE
PDV2182	B	PI21-10	CIRC 1D	STEAM/WATER DRAIN	LOCAL	CV104	9-1-77	D-SD	1	NONE	PI82203	NONE	NONE
XP52182	B	PI21-1	CIRC 1D	STEAM/WATER DRAIN	I29B	NONE	9-1-77	D-SD	3	NONE			
PDAHL2182		PI21-10	CIRC 1D	STEAM/WATER DRAIN	I02	NONE	9-1-77		3	P2050	EMANON	P1780	E1892
FE2183	A	PI21-7	CIRC 1A	BRG WTR SUPPLY	LOCAL	FE125	9-1-77			NONE	M19402	NONE	NONE
FI2183	B	PI21-7	CIRC 1A	BRG WTR SUPPLY	I02	EI132	9-6-78	NS	3,1	P1846	NONE	P2230	E1297
FM2183	B	PI21-7	CIRC 1A	BRG WTR SUPPLY	I62	TM189	9-6-78	NS	3,1	P1846	NONE	P1748	E1711
FT2183	A	PI21-7	CIRC 1A	BRG WTR SUPPLY	I125	TM120	9-6-78	NS	3,1	P1846	130.8.6	P1690	E1711
FIS2183	A	PI21-7	CIRC 1A	BRG WTR SUPPLY	I125	PS146	9-7-78	A-SD	3	P481	130.8.6	P2645	E1536
FAHL2183		PI21-7	CIRC 1A	BRG WTR SUPPLY	I02	NONE	9-1-77		3	P2040	NONE	P1746	E1891
FSHL2183	B	PI21-7	CIRC 1A	BRG WTR SUPPLY	I70	NONE	9-1-77		3	P2040	NONE	P1746	E1891
FE2184	A	PI21-9	CIRC 1C	BRG WTR SUPPLY	LOCAL	FE125	9-1-77			NONE	M19608	NONE	NONE
FI2184	B	PI21-9	CIRC 1C	BRG WTR SUPPLY	I02	EI132	9-6/78	NS	3,1	P1846	NONE	P1746	E1297
FM2184	B	PI21-9	CIRC 1C	BRG WTR SUPPLY	I62	TM189	9-6/78	NS	3,1	P1846	NONE	P1748	E1711
FT2184	A	PI21-9	CIRC 1C	BRG WTR SUPPLY	I134	TM120	9-6/78	NS	3,1	P1846	130.8.6	P1691	E1711
FIS2184	A	PI21-9	CIRC 1C	BRG WTR SUPPLY	I134	PS146	9-2/77	IC-SD	3	P493	130.8.6	P2648	E1537
FAHL2184		PI21-9	CIRC 1C	BRG WTR SUPPLY	I02	NONE	9-1-77		3	P2050	NONE	P1746	E1892
FSHL2184	B	PI21-9	CIRC 1C	BRG WTR SUPPLY	I70	NONE	9-1-77		3	P1846	NONE	P1746	E1892

FROM 2182 TO 2184

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
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INSTRUMENT NUMBER	PI OR CI DWG G2	SERVICE O3	7NST LOC ATION O4	INST DATA SHEET O5	PROCURE MENT SPC O6	PNEU ELECT POWER SUPPLY O7	INST LOCATION DRAWING O8	ELEM SCHEME DRAWING O9	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
FE2185 A	PI21-8	CIRC 1B BRG WTR SUPPLY	LOCAL	FE125	9	1	---	-3C6 NONE	M194B2	NONE	NONE
FI2185 B	PI21-8	CIRC 1B BRG WTR SUPPLY	I02	E1132	9-78-2	NS	3,1	P1847	NONE	P1746	E1297
FM2185 B	PI21-8	CIRC 1B BRG WTR SUPPLY	I62	TM189	9-78-2	NS	3,1	P1847	NONE	P1748	E1713
FT2185 A	PI21-8	CIRC 1B BRG WTR SUPPLY	I131	TM120	9-78-2	NS	3,1	-3C1 P1847	130.8.6	P1690	E1713
FIS2185 A	PI21-8	CIRC 1B BRG WTR SUPPLY	I131	PS146	9-77-12	B-SD	3	-3C1 P487	130.8.6	P2648	E1536
FAHL2185	PI21-8	CIRC 1B BRG WTR SUPPLY	I02	NONE	9-63	---	3	P2040	NONE	P1747	E1891
FSHL2185 B	PI21-8	CIRC 1B BRG WTR SUPPLY	I70	NONE	9-63	NS	3	P2040	NONE	P1747	E1891
FE2186 A	PI21-10	CIRC 1D BRG WTR SUPPLY	LOCAL	FE125	1	2	---	-3C4 NONE	M194C8	NONE	NONE
FI2186 B	PI21-10	CIRC 1D BRG WTR SUPPLY	I02	E1132	6/78-2	NS	3,1	P1847	NONE	P1746	E1297
FM2186 B	PI21-10	CIRC 1D BRG WTR SUPPLY	I62	TM189	6/78-2	NS	3,1	P1847	NONE	P1748	E1713
FT2186 A	PI21-10	CIRC 1D BRG WTR SUPPLY	I140	TM120	6/78-2	NS	3,1	-3B1 P1847	130.8.6	P1692	E1713
FIS2186 A	PI21-10	CIRC 1D BRG WTR SUPPLY	I140	PS146	6-77-12	D-SD	3	-3B1 P499	130.8.6	P2645	E1537
FAHL2186	PI21-10	CIRC 1D BRG WTR SUPPLY	I02	NONE	-63	---	3	P2050	NONE	P1747	E1892
FSHL2186 B	PI21-10	CIRC 1D BRG WTR SUPPLY	I70	NONE	-63	---	2	P2050	NONE	P1747	E1892
HS2187-1	PI21-7	CIRC 1A BRG SERV ISO	I02	CS134	-2	---	---	P481	NONE	P2619	E1292
HS2187-2	PI21-7	CIRC 1A BRG SERV ISO	I02	CS134	-2	---	---	P481	NONE	P2619	E1292
HS2187-3	PI21-7	CIRC 1A BRG SERV ISO	I02	CS134	-2	---	---	P478	NONE	P2619	E1291
HS2187-4	PI21-7	CIRC 1A BRG SERV ISO	I02	CS134	-2	+3	---	P478	NONE	P2619	E1291
HS2187-5	PI21-7	CIRC 1A BRG SERV ISO	I02	CS134	-2	---	---	P478	NONE	P2619	E1295

ILO20U

LISTED BY SYSTEM 21

INSTRUMENT PI OR  
NUMBER CI DWG SERVICE  
01 02 03

INSTRUMENT LIST  
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INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC	INST DATA SHEET	PROCURE MEINT SPEC	INST LOCATION DRAWING	ELECT POWER SUPPLY	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	08	07	09	10	11	12
HS2187-6	PI21-7	CIRC 1A BRG SERV ISO	IO2	CS134	9 2	+3	PNEU	P478	NONE	P2619	E1291
HS2187-8	PI21-7	BEARING WTR ACCUM CIRC 1A	IO2	CS134	9 2	+3		P481	NONE	P2619	E1291
HV2187-1	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-1-37	9 1	ASDA		-3B6 P481	PI822C3	P2617	E1292
HV2187-2	PI21-7	CIRC 1A DRG SERV ISO VAL	LOCAL	21-1-37	9 1	ASDA		-1B6 P481	PI822C4	P2617	E1292
HV2187-3	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-3-1	9 1	ASDA		-1C6 P478	PI822C4	P2616	E1801
HV2187-4	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-3-2	9 1	ASDA		-3C5 P478	PI822B5	P2616	E1801
HV2187-5	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-1-8	9 1	ASDA		-305 P478	PI822C4	P2615/16	E1291
HV2187-6	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-1-9	9 1	ASDA		-1B5 P478	PI822C5	P2615/16	E1291
HV2187-7	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-3-3	9 1	ASDA		-3C5 P478/479	PI822B5	P2615/16	E1291
HV2187-8	PI21-7	BEARING WTR ACCUM CIRC 1A	LOCAL	21-1-39	9 1	ASD3		-2C5 P478/480	PI822B3	P2615/16	E1291
HV2187-9	PI21-7	GUARD HE TO CIRC 1A	LOCAL	21-3-1	9 1	ASDA		-3C5 P479	PI828B2	P2620	E1804
PS2187-1	PI82-7	REACT DLOG VAL BACKUP AIR	LOCAL	PS516	16-78	NS		-3C4 P2026		P0818	E1890
ZI2187-1	PI21-7	CIRC 1A BRG SERV ISO VAL	IO2	CS134	9 1			P478	NONE	P2617	E1279
ZI2187-2	PI21-7	CIRC 1A BRG SERV ISO VAL	IO2	CS134	9 1			P478	NONE	P2617	E1279
ZI2187-3	PI21-7	CIRC 1A BRG SERV ISO VAL	IO2	CS134	9 1			P479	NONE	P2616	E1279
ZI2187-4	PI21-7	CIRC 1A BRG SERV ISO VAL	IO2	CS134	9 1			P479	NONE	P2618	E1279
ZI2187-5	PI21-7	CIRC 1A BRG SERV ISO VAL	IO2	CS134	9 1			P400	NONE	P2616	E1279
ZI2187-6	PI21-7	CIRC 1A BRG SERV ISO VAL	IO2	CS134	9 1			P460	NONE	P2616	E1279
ZI2187-7	PI21-7	CIRC 1A BRG SERV ISO VAL	IO2	CS134	9 1			P480	NONE	P2616	E1279
ZI2187-8	PI21-7	CIRC 1A BRG SERV ISO VAL	IO2	CS134	9 1			P480	NONE	P2616	E1279
ZS2187-1	PI21-7	CIRC 1A DRG SERV ISO VAL	LOCAL	21-1-37	9 1			P478	NONE	P2617	E1292

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
ZS2187-2	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-1-37	9 1			P478	NONE	P2617	E1292
ZS2187-3	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-3-1	9 1			P479	NONE	P2616	E1294
ZS2187-4	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-3-2	9 1			P479	NONE	P2616	E1294
ZS2187-5	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-1-8	9 1			P480	NONE	P2616	E1295
ZS2187-6	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-1-9	9 1			P480	NONE	P2616	E1294
ZS2187-7	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-3-3	9 1			P480	NONE	P2616	E1294
ZS2187-8	PI21-7	CIRC 1A BRG SERV ISO VAL	LOCAL	21-1-39	9 1			P480	NONE	P2616	E1295
PAL2187	PI82-7	REACT BLDG VAL BACKUP AIR	(101)	NONE	9 63	-	3	P2028	NONE	PC818	E1890
HS2188-1	PI21-9	CIRC 1C BRG SERV ISO	I02	CS134	9 2			P493	NONE	P2625	E1292
HS2188-2	PI21-9	CIRC 1C BRG SERV ISO	I02	CS134	9 2			P493	NONE	P2625	E1292
HS2188-3	PI21-9	CIRC 1C BRG SERV ISO	I02	CS134	9 2			P490/491	NONE	P2624	E1292
HS2188-4	PI21-9	CIRC 1C BRG SERV ISO	I02	CS134	9 2	+3		P490	NONE	P2622	E1292
HS2188-5	PI21-9	CIRC 1C BRG SERV ISO	I02	CS134	9 2			P490	NONE	P2624	E1295
HS2188-6	PI21-9	CIRC 1C BRG SERV ISO	I02	CS134	9 2	+3		P490	NONE	P2622	E1295
HS2188-8	PI21-9	BEARING WTR ACCUM CIRC 1C	I02	CS134	9 2			P493	NONE	P2624	E1295
HV2188-1	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-1-37	9 1	C-50 3	-304	P489/491	PI822C3	P2623/24	E1292
HV2188-2	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-1-37	9 1	C-50 3	-184	P490/491	PI822C4	P2622/21	E1801
HV2188-3	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-3-1	9 1	C-50 3	-304	P490/491	PI822C5	P2623/24	E1292
HV2188-4	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-3-2	9 1	C-50 3	-304	P490/491	PI822C4	P2621/22	E1801
HV2188-5	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-1-10	9 1	C-50 3	-305	P490/492	PI822C4	P2623/24	E1292

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG D2	SERVICE O3	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
HV2188-6	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-1-10	9	1	C-SD B	-185 P490/492	PI822C6	P2622/21	E1801
HV2188-7	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-3-1	9	1	C-SD B	-304 P490/491	PI822B5	P2621/22	E1801
HV2188-8	PI21-9	BEARING WTR ACCUM CIRC 1C	LOCAL	21-1-39	9	1	C-SD B	-203 P490/492	M234A8	P2623	E1292
HV2188-9	PI21-9	GUARD HE TO CIRC 1C	LOCAL	21-3-1	9	1	C-SD B	-384 P0490	PI822B2	P2623/24	E1292
ZI2188-1	PI21-9	CIRC 1C BRG SERV ISO VAL	IO2	CS134	9	2		P490	NONE	P2623	E1280
ZI2188-2	PI21-9	CIRC 1C BRG SERV ISO VAL	IO2	CS134	9	2		P490	NONE	P2621	E1280
ZI2188-3	PI21-9	CIRC 1C BRG SERV ISO VAL	IO2	CS134	9	2		P491	NONE	P2624	E1280
ZI2188-4	PI21-9	CIRC 1C BRG SERV ISO VAL	IO2	CS134	9	2		P491	NONE	P2622	E1280
ZI2188-5	PI21-9	CIRC 1C BRG SERV ISO VAL	IO2	CS134	9	2		P492	NONE	P2624	E1280
ZI2188-6	PI21-9	CIRC 1C BRG SERV ISO VAL	IO2	CS134	9	2		P492	NONE	P2622	E1280
ZI2188-7	PI21-9	CIRC 1C BRG SERV ISO VAL	IO2	CS134	9	2		P492	NONE	P2622	E1280
ZI2188-8	PI21-9	CIRC 1C BRG SERV ISO VAL	IO2	CS134	9	2		P492	NONE	P2622	E1280
ZS2188-1	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-1-37		-1		P490	VELAN	P2623	E1292
ZS2188-2	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-1-37		-1		P490	NONE	P2621	E1292
ZS2188-3	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-3-1		-1		P491	NONE	P2624	E1295
ZS2188-4	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-3-2		-1		P491	NONE	P2622	E1295
ZS2188-5	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-1-10		-1		P492	NONE	P2624	E1295
ZS2188-6	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-1-10		-1		P492	NONE	P2622	E1295
ZS2188-7	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-3-1		-1		P492	NONE	P2622	E1295
ZS2188-8	PI21-9	CIRC 1C BRG SERV ISO VAL	LOCAL	21-1-39		-1		P492	NONE	P2624	E1295
HS2189-1	PI21-8	CIRC 1B BRG SERV ISO	IO2	CS134		-2		P487	NONE	P2619	E1292



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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
HS2189-2	PI21-8	CIRC 1B BRG SERV ISO	I02	CS134	93-I-2			P487	NONE	P2619	E1292
HS2189-3	PI21-8	CIRC 1B BRG SERV ISO	I02	CS134	93-I-2	+3		P484	NONE	P2620	E1291
HS2189-4	PI21-8	CIRC 1B BRG SERV ISO	I02	CS134	93-I-2	+3		P484	NONE	P2618	E1291
HS2189-5	PI21-8	CIRC 1B BRG SERV ISO	I02	CS134	93-I-2			P484	NONE	P2616	E1295
HS2189-6	PI21-8	CIRC 1B BRG SERV ISO	I02	CS134	93-I-2	+3		P484	NONE	P2620	E1291
HS2189-8	PI21-8	BEARING WTR ACCUM CIRC 1B	I02	CS134	93-I-2			P487	NONE	P2616	E1295
HV2189-1	PI21-8	CIRC 1B BRG SERV ISO VAL	LOCAL	21-1-37	91-M-1	B-501	-306	P483/485	PI822C3	P2619/20	E1292
HV2189-2	PI21-8	CIRC 1B BRG SERV ISO VAL	LOCAL	21-1-37	91-M-1	B-501	-106	P483/485	PI822C4	P2619/20	E1292
HV2189-3	PI21-8	CIRC 1B BRG SERV ISO VAL	LOCAL	21-3-1	91-M-1	B-501	A7	P483/485	PI822C5	P2619/20	E1291
HV2189-4	PI21-8	CIRC 1B BRG SERV ISO VAL	LOCAL	21-3-2	91-M-1	B-501	-305	P483/485	PI822B4	P2618/17	E1801
HV2189-5	PI21-8	CIRC 1B BRG SERV ISO VAL	LOCAL	21-1-11	91-M-1	B-501	-305	P484/486	PI822C4	P2619/20	E1291
HV2189-6	PI21-8	CIRC 1B BRG SERV ISO VAL	LOCAL	21-1-11	91-M-1	B-501	-105	P484/486	PI822C5	P2619/20	E1291
HV2189-7	PI21-8	CIRC 1B BRG SERV ISO VAL	LOCAL	21-3-3	91-M-1	B-501	-305	P483/485	PI822B4	P2618/17	E1801
HV2189-8	PI21-8	BEARING WTR ACCUM CIRC 1B	LOCAL	21-1-39	91-M-1	B-501	-205	P484/486	PI822B2	P2619/20	E1291
HV2189-9	PI21-8	GUARD HE TO CIRC 1B	LOCAL	21-3-1	91-M-1	B-501	-305	P484	PI828B2	P2620	E1804
ZI2189-1	PI21-8	CIRC 1B BRG ISO VAL	I02	CS134	93-I-2			P484	NONE	P2619	E1279
ZI2189-2	PI21-8	CIRC 1B BRG ISO VAL	I02	CS134	93-I-2			P484	NONE	P2619	E1279
ZI2189-3	PI21-8	CIRC 1B BRG ISO VAL	I02	CS134	93-I-2			P485	NONE	P2620	E1279
ZI2189-4	PI21-8	CIRC 1B BRG ISO VAL	I02	CS134	93-I-2			P485	NONE	P2618	E1279
ZI2189-5	PI21-8	CIRC 1B BRG ISO VAL	I02	CS134	93-I-2			P486	NONE	P2620	E1279
ZI2189-6	PI21-8	CIRC 1B BRG ISO VAL	I02	CS134	93-I-2			P486	NONE	P2620	E1279

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INSTRUMENT NUMBER Q1	PI OR CI DWG Q2	SERVICE Q3	INST LOC ATION Q4	INST DATA SHEET Q5	PROCURE MENT SPEC Q6	PNEU ELECT POWER SUPPLY Q7	INST LOCATION DRAWING Q8	ELEM SCHEME DRAWING Q9	INST INSTALL DRAWING Q10	CABLE TAB DRAWING Q11	ELECT CONN DRAWING Q12
ZI2189-7	PI21-8	CIRC 1B BRG ISO VAL	I02	CS134	93-I-2			P486	NONE	P2618	E1279
ZI2189-8	PI21-8	CIRC 1B BRG ISO VAL	I02	CS134	93-I-2			P486	NONE	P2618	E1279
ZS2189-1	PI21-8	CIRC 1B BRG ISO VAL	LOCAL	21-1-37	91-M-1			P484	NONE	P2619	E1292
ZS2189-2	PI21-8	CIRC 1B BRG ISO VAL	LOCAL	21-1-37	91-M-1			P484	NONE	P2619	E1292
ZS2189-3	PI21-8	CIRC 1B BRG ISO VAL	LOCAL	21-3-1	91-M-1			P485	NONE	P2620	E1294
ZS2189-4	PI21-8	CIRC 1B BRG ISO VAL	LOCAL	21-3-2	91-M-1			P485	NONE	P2618	E1294
ZS2189-5	PI21-8	CIRC 1B BRG ISO VAL	LOCAL	21-1-11	91-M-1			P486	NONE	P2620	E1295
ZS2189-6	PI21-8	CIRC 1B BRG ISO VAL	LOCAL	21-1-11	91-M-1			P486	NONE	P2620	E1294
ZS2189-7	PI21-8	CIRC 1B BRG ISO VAL	LOCAL	21-3-3	91-M-1			P486	NONE	P2618	E1294
ZS2189-8	PI21-8	CIRC 1B BRG ISO VAL	LOCAL	21-1-39	91-M-1			P0486	NONE	P2620	E1295
HS2190-1	PI21-10	CIRC 1D BRG SERV ISO	I02	CS134	93-I-2			P499	NONE	P2625	E1292
HS2190-2	PI21-10	CIRC 1D BRG SERV ISO	I02	CS134	93-I-2			P499	NONE	P2625	E1292
HS2190-3	PI21-10	CIRC 1D BRG SERV ISO	I02	CS134	93-I-2			P496	NONE	P2624	E1292
HS2190-4	PI21-10	CIRC 1D BRG SERV ISO	I02	CS134	93-I-2	+3		P496	NONE	P2535	E1292
HS2190-5	PI21-10	CIRC 1D BRG SERV ISO	I02	CS134	93-I-2			P496	NONE	P2626	E1295
HS2190-6	PI21-10	CIRC 1D BRG SERV ISO	I02	CS134	93-I-2	+3		P496	NONE	P2626	E1292
HS2190-8	PI21-10	BEARING WTR ACCUM CIRC 1D	I02	CS134	93-I-2			P499	NONE	P2626	E1295
HV2190-1	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-1-37	91-M-1	D-50 3	-305	P495/497	PI822C3	P2625/26	E1292
HV2190-2	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-1-37	91-M-1	D-50 3	-1A4	P496/497	PI822C3	P2625/26	E1292
HV2190-3	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-3-1	91-M-1	D-50 3	-105	P496/497	PI822C5	P2623/24	E1801

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
HV2190-4	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-3-2	91-M-1	D-SD3	-3C4	P496/497	PI822B5	P2623/24	E1801
HV2190-5	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-1-12	91-M-1	D-SD3	-3C4	P496/498	PI822C4	P2625/26	E1292
HV2190-6	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-1-13	91-M-1	D-SD3	-1D4	P496/498	PI822C4	P2625/26	E1292
HV2190-7	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-3-3	91-M-1	D-SD3	-3C5	P496/497	PI822B5	P2623/24	E1801
HV2190-8	PI21-10	BEARING WTR ACCUM CIRC 1D	LOCAL	21-1-39	91-M-1	D-SD3	-2D3	P496/498	PI822B2	P2625/26	E1292
HV2190-9	PI21-10	GUARD HE TO CIRC 1D	LOCAL	21-3-1	91-M-1	D-SD3	-3C4	P497	PI828B2	P2625	E1292
ZI2190-1	PI21-10	CIRC 1D BRG SERV ISO VAL	IO2	CS134	93-I-2			P496	NONE	P2625	E1280
ZI2190-2	PI21-10	CIRC 1D BRG SERV ISO VAL	IO2	CS134	93-I-2			P496	NONE	P2625	E1280
ZI2190-3	PI21-10	CIRC 1D BRG SERV ISO VAL	IO2	CS134	93-I-2			P497	NONE	P2624	E1280
ZI2190-4	PI21-10	CIRC 1D BRG SERV ISO VAL	IO2	CS134	93-I-2			P497	NONE	P2624	E1280
ZI2190-5	PI21-10	CIRC 1D BRG SERV ISO VAL	IO2	CS134	93-I-2			P498	NONE	P2626	E1280
ZI2190-6	PI21-10	CIRC 1D BRG SERV ISO VAL	IO2	CS134	93-I-2			P498	NONE	P2626	E1280
ZI2190-7	PI21-10	CIRC 1D BRG SERV ISO VAL	IO2	CS134	93-I-2			P498	NONE	P2626	E1280
ZI2190-8	PI21-10	CIRC 1D BRG SERV ISO VAL	IO2	CS134	93-I-2			P498	NONE	P2626	E1280
ZS2190-1	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-1-37	91-M-1			P496	NONE	P2625	E1292
ZS2190-2	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-1-37	91-M-1			P496	NONE	P2625	E1292
ZS2190-3	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-3-1	91-M-1			P497	NONE	P2624	E1295
ZS2190-4	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-3-2	91-M-1			P497	NONE	P2624	E1295
ZS2190-5	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-1-12	91-M-1			P498	NONE	P2626	E1295
ZS2190-6	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-1-13	91-M-1			P498	NONE	P2626	E1295
ZS2190-7	PI21-10	CIRC 1D BRG SERV ISO VAL	LOCAL	21-3-3	91-M-1			P498	NONE	P2624	E1295

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INSTRUMENT NUMBER	PI OR CI DWG C2	SERVICE O3	INST LOC TION O4	INST DATA SHEET O5	PROCURE MENT SPEC O6	PNEU ELECT POWER SUPPLY O7	INST LOCATION DRAWING O8	ELEM SCHEME DRAWING O9	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
ZS2190-8	PI21-10	CIRC 10 BRG SERV ISO VAL	LOCAL	21-1-39	91-M-1			P498	NONE	P2626	E1295
4 HSV2191-1		BACKUP BRG WTR LOOP 1	LOCAL	NONE	1-M-3			-1B2 P553			
4 HSV2191-2		BACKUP BRG WTR LOOP 1	LOCAL	NONE	1-M-3			-1B2 P553			
PDV2191 ? B	PI21-5	LOOP 1 EM BRG WTR SUPPLY	LOCAL	CV108	93-I-5	1-SD	?	-3C6 P533	PI82282	NONE	NONE
PDV2191-1 A	PI21-5	BUBW	LOCAL	CV108A	93-I-5	1-SD	?	-3C6 NONE	PI822C1	NONE	NONE
4 HSV2192-1		BACKUP BRG WTR LOOP 2	LOCAL	NONE	1-M-3			P554			
4 HSV2192-2		BACKUP BRG WTR LOOP 2	LOCAL	NONE	1-M-3			P554			
PDV2192 ? M	PI21-5	LOOP 2 EM BRG WTR SUPPLY	LOCAL	CV108	93-I-5	2-SD3	?	-1A6 NONE	PI822C4	NONE	NONE
PDV2192-1 M	PI21-5	BUBW	LOCAL	CV108A	93-I-5	2-SD	?	-1A6 P554	NONE	NONE	NONE
HS2193	PI21-3	BUFF HE RECIRCULATOR	ID2	CS134	93-I-2	1A		P178	NONE	P582	E1290
HV2193	PI21-3	BUFF HE RECIRCULATOR 1A	LOCAL	21-2-1	91-M-1	1-SD		-2C6 P509	PI82284	P2629	E1290
ZI2193	PI21-3	BUFF HE RECIRC 1A	ID2	CS134	93-I-2			P509	NONE	P582	E1274
ZS2193	PI21-3	BUFF HE RECIRC 1A	LOCAL	21-2-1	91-M-1			P509	NONE	P2629	E1809
HS2194	PI21-3	BUFF HE RECIRCULATOR 1C	ID2	CS134	93-I-2	3		P180	NONE	P612	E1293
HV2194	PI21-3	BUFF HE RECIRCULATOR 1C	LOCAL	21-2-1	91-M-1	2-SD		-2D5 P511	PI82284	P0612	E1293
ZI2194	PI21-3	BUFF HE RECIRC 1C	ID2	CS134	93-I-2			P511	VELAN	P612	E1275
ZS2194	PI21-3	BUFF HE RECIRC 1C	LOCAL	21-2-1	91-M-1			P511	VELAN	P2612	E1804

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	HE DRYER BED A	HE DRYER BED B	OUTLET	INST LOC ATION	INST DATA SHEET	PROCUREMENT SPEC	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
7	PI2197	D	P121-3	HE DRYER BED A	OUTLET	S2101	NONE	2 7/78	18	NONE	H210C8	NONE	NONE
1	PI2198	D	P121-3	HE DRYER BED B	OUTLET	S2101	NONE	2 7/78	CH	NONE	PRITCH	NONE	NONE
1	PI2199	D	P121-3	HE DRYER BED A		A2101X	NONE	2 6/78	1X	NONE	PRITCH	NONE	NONE
1	PI21100	D	P121-3	HE DRYER BED B		A2102X	NONE	2 6/78	2X	NONE	PRITCH	NONE	NONE
2	PI21101	B	P121-3	HE DRYER BED A		A2101X	NONE	2 1	1X	NONE	PRITCH	NONE	NONE
2	PI21102	B	P121-3	HE DRYER BED B		A2102X	NONE	2 1	1X	NONE	PRITCH	NONE	NONE
2	PI21104	D	P121-6	BRG WTR REMOVAL PUMP	DISC LOCAL	FE106	NONE	2	-105	NONE	M210C7	NONE	NONE
2	PI21105	B	P121-5	BACK-UP BRG WTR HDR		I29A	CR187	16-77		NONE	NONE	NONE	NONE
2	PI21105-1	B	P121-5	BACK-UP BRG WTR HDR		LOCAL	NONE	16-77	-386	NONE	130.10.1	P1722	E1540
2	PI21105-2	B	P121-5	EMERG FW TO HE CIRC		LOCAL	CV106	16-77	-386	NONE	PI82286	NONE	NONE
2	PI21105-3	B	P121-5	BUBW		LOCAL	CV106	16-77	-306	NONE	PI822C1	NONE	NONE

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INSTRUMENT NUMBER	PI OR CI DWG 02	SERVICE 03	INST LOC TION 04	INST DATA SHEET 05	PROCURE MENT SPEC 0	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
↓ HSV21105-1		BACKUP BRG WTR HDR	LOCAL	NONE	1			-386 P553			
4 HSV21105-2		BACKUP BRG WTR HDR	LOCAL	NONE	1			-386 P554			
XEP21105 B	PI82-5	BACK-UP BRG WTR HDR	LOCAL	CV106	9-6-77	RF 1	1	-386 NONE	130.11.1	P1722	E1540
XPS21105 B	PI21-5	BACK-UP BRG WTR HDR	I29A	CR194	9-6-77	RF	1	NONE	NONE	P1722	E1540
PV21106 B	PI21-6	HE RECOV COMPR SUCT CTL	LOCAL	CV120	9	RF 1	2	-204 P182	PI822A4		
4 HSV21106	PI21-6	AIR TO LP SEP OUT CONTRL	LOCAL	NONE	1			P522	PI822A4	P2631	E1293
PAH21106	PI21-6	HE RECOV COMPR SUCT CTL	(I02)	NONE	9	3	3	P2044	NONE	P0780	E1891
10 PIC21106 B	PI21-6	HE RECOV COMPR SUCT CTL	I143	PI102	9-NE	RF 1	2	-3A1 NONE	PI822A4	NONE	NONE
5 PSH21106 B	PI21-6	HE RECOV COMPR SUCT CTL	I143	PS150	1-8/78	RF 1	3	-3A1 P182	M134C	P2645	E1108
HS21107	PI21-6	HE RECOV COMPR 1A	I02	CS134	9	1	1A	P182	NONE	P583	E1291
HV21107-1	PI21-6	HE RECOV COMPR 1A INLET	LOCAL	21-2-2	9	1		-205 P513	PI822A2	P2631	E1291
HV21107-2	PI21-6	HE RECOV COMPR 1A OUTLET	LOCAL	21-2-2	9	1		-204 P513	PI822A2	P2631	E1291
ZI21107-1	PI21-6	HE RECOV COMPR 1A	I02	CS134	9	2		P513	NONE	P583	E1274
ZI21107-2	PI21-6	HE RECOV COMPR 1A	I02	CS134	9	2		P513	NONE	P583	E1274
ZS21107-1	PI21-6	HE RECOV COMPR 1A	LOCAL	21-2-2	9	1		P513	NONE	P2631	E1231
ZS21107-2	PI21-6	HE RECOV COMPR 1A	LOCAL	21-2-2	9	1		P513	NONE	P.2631	E1291
HS21108	PI21-6	HE RECOV COMPR 1B	I02	CS134	9	2	3	P183	NONE	P607	E1293
HV21108-1	PI21-6	HE RECOV COMPR 1B INLET	LOCAL	21-2-2	9	1		-204 P516	PI82205	P2632	E1293

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
HV21108-2	PI21-6	HE RECOV COMPR 1B OUTLET	LOCAL	21-2-3	9 1		-204	P516	PI822B5	P2632	E1293
ZI21108-1	PI21-6	HE RECOV COMPR 1B	I02	CS134	9 2			P516	NONE	P607	E1275
ZI21108-2	PI21-6	HE RECOV COMPR 1B	I02	CS134	9 2			P516	NONE	P607	E1275
ZS21108-1	PI21-6	HE RECOV COMPR 1B	LOCAL	21-2-2	9 1			P516	NONE	P2632	E1804
ZS21108-2	PI21-6	HE RECOV COMPR 1B	LOCAL	21-2-3	9 1			P516	NONE	P2632	E1804
HS21109	PI21-6	BRG WTR REMOVAL PUMP 1A	I02	CS134	9 2	1A		P176	NONE	P586	E1291
HS21110	PI21-6	BRG WTR REMOVAL PUMP 1B	I02	CS134	9 2	3		P177	NONE	P611	E1293
HS21111	PI21-6	TURB WTR REMOVAL PUMP 1A	I02	CS134	9 2	1B		P64	NONE	P335	E1291
HS21112	PI21-6	TURB WTR REMOVAL PUMP 1B	I02	CS134	9 2	1B		P65	NONE	P351	E1294
LSL21113A	PI21-6	TURB WTR DRAIN TANK	LOCAL	PS126	NE 2	RF	3	-205 P64	M250F	P2641	E1803
LC21114A	PI21-6	TURB WTR DRAIN TANK	LOCAL	LI102	3-78-5	SI 3	3	-204 NONE	PI822B4	NONE	NONE
LV21114A	PI21-6	TURB WTR DRAIN TANK	LOCAL	CV107	-5	NS 3	3	-204 NONE	PI822B5	NONE	NONE
LC21115 B	PI21-6	LOW PRESS SEPARATOR	LOCAL	LI102	3-78-5	RF 1	3	-304 NONE	PI822C2	NONE	NONE
LV21115 B	PI21-6	LOW PRESS SEPARATOR	LOCAL	CV107	-5	RF 1		-304 NONE	PI822C2	NONE	NONE

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INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC	INST DATA SHEET	PROCUREMENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
LAL21116	PI21-6	LP SEP LO LVL PMP TRIP	I02	NONE	9 63			P2053	NONE	P0834	E1883
LSL21116	W PI21-6	LP SEP LO LVL PMP TRIP	LOCAL	PS128	1 NG	RF	3 -304	P176	M250E	P2645	E1803
LV21117	W PI21-6	LP SEP WTR LVL HIGH	LOCAL	21-1-13	9 1	NS	3 -104	P474	PI822C6	P0720	E1451
LAH21117	PI21-6	LP SEP WTR LVL HIGH	I02	NONE	9 63			P2053	NONE	P0762	E1883
LSH21117	B PI21-6	LP SEP WTR LVL HIGH	LOCAL	PS128	12-77	NS	3 -304	P0474	M250E	P0720	E1451
LI21118	B PI21-6	LOW PRESS SEPARATOR	I02	EI131	93-782	NS	3	P1838	NONE	P2230	E1297
LT21118	B PI21-6	LOW PRESS SEPARATOR	LOCAL	TM136	93-782	NS	3 -204	P1838	M133E	P1657	E1709
LV21118	B PI21-6	LOW PRESS SEPARATOR	LOCAL	21-1-29	9 1	NS	3 -204	P474	PI822A4	P2529	E1459
LAH21118	PI21-6	BRG WTR REMOV PMP STBY ST	I02	NONE	9 63			P2044	NONE	P0780	E1891
LSH21118	B PI21-6	LOW PRESS SEPARATOR	I43	BT138	91-782	NS	3	P1838	NONE	P1775	E1709
XPS21118	B NONE	LOW PRESS SEPARATOR	I43	TM136	9NG 2	NS	3	P1838	NONE	P1775	E1709
LAHL21118	PI21-6	LOW PRESS SEPARATOR	I02	NONE	9 63			P2044	NONE	P.1774	E1891
LSHL21118	PI21-6	LOW PRESS SEPARATOR	I70	NONE	9 63		3	P1838	NONE	P1774	E1709
LC21119	B PI21-6	LOW PRESS SEPARATOR DRAIN	LOCAL	LI102	92-785	RF 3	3 -304	NONE	PI822A4	NONE	NONE
LV21119	B PI21-6	LOW PRESS SEPARATOR DRAIN	LOCAL	CV116	9 5	NS 3	3 -204	NONE	PI822A4	NONE	NONE
5 -PS21120 A	PI21-6	TURB WTR DRAIN TK VENT	I142	PS150	16-77	RF	2 -3A1	P472	130.10.4	P2536	E1467
PV21120 A	PI21-6	TURB WTR DRAIN TK VENT	LOCAL	21-1-13	9 1	NS	2 -305	P472	PI322C5	P2536	E1467



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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
PV21120-1	PI21-6	TURB WTR DRAIN TK VENT	LOCAL	21-1-14	9 1	US	3 1	P472			485
LI21121 B	PI21-7	HP SEPARATOR 1A	I02	EI131	93-782	A-SD	3	P1836	NONE	P2229	E1297
LT21121A	PI21-7	HP SEPARATOR 1A	I125	TM148	93-782	A-SD	3	P1836	M249T	P1690	E1713
XRS21121A	NONE	HE CIRC 1A HP SEP LUL	I39A	TM229	93-782	A-SD	3	P1836	NONE	NONE	E1713
LAHL21121	PI21-7	HP SEPARATOR 1A	I02	NONE	9 63		3	P2038	NONE	P1780	E1891
LSHL21121	PI21-7	HP SEPARATOR 1A	I70	NONE	9 63		3	P1836	NONE	P1780	E1713
LI21122 B	PI21-9	HP SEPARATOR 1C	I02	EI131	93-782	C-SD	3	P1836	NONE	P1779	E1297
LT21122A	PI21-9	HP SEPARATOR 1C	I135	TM148	92-782	C-SD	3	P1836	M249T	P1779	E1713
XPS21122A	NONE	HE CIRC 1C HP SEP LUL	I40A	TM229	92-772	C-SD	3	P1836	NONE	NONE	E1713
LAHL21122	PI21-9	HP SEPARATOR 1C	I02	NONE	9 63		3	P2049	NONE	P1780	E1892
LSHL21122	PI21-9	HP SEPARATOR 1C	I70	NONE	9 63		3	P1836	NONE	P1780	E1713
LI21123 B	PI21-8	HP SEPARATOR 1B	I02	EI131	93-782	B-SD	3	P1836	NONE	P2229	E1297
LT21123A	PI21-8	HP SEPARATOR 1B	LOCAL	TM148	92-782	B-SD	3	P1836	M133E	P1779	E1713
XPS21123A	NONE	HE CIRC 1B HP SEP LUL	I39A	TM229	92-782	B-SD	3	P1836	NONE	NONE	E1713
LAHL21123	PI21-8	HP SEPARATOR 1B	I02	NONE	9 63		3	P2038	NONE	P1780	E1891
LSHL21123	PI21-8	HP SEPARATOR 1B	I70	NONE	9 63		3	P1836	NONE	P1780	E1713
LI21124 B	PI21-10	HP SEPARATOR 1D	I02	EI131	93-782	D-SD	3	P1836	NONE	P1779	E1297

FROM 2112C TO 21124

ILG20U

LISTED BY SYSTEM 21

INSTRUMENT  
NUMBER  
01

PI OR  
C7 DWG SERVICE  
02 03

INST  
LOC  
ATION  
04

INST  
DATA  
SHEET  
05

PROCURE  
MENT  
SPEC  
06

ELECT  
POWER  
SUPPLY  
07

INST  
LOCATION  
DRAWING  
08

ELEM  
SCHEME  
DRAWING  
09

INST  
INSTALL  
DRAWING  
10

CABLE  
TAB  
DRAWING  
11

ELECT  
CONN  
DRAWING  
12

PI21-10 HP SEPARATOR 10  
NONE HE CIRC 10 HP SEP LUL  
PI21-10 HP SEPARATOR 10  
PI21-10 HP SEPARATOR 10

PI21-6 TURB WTR DRAIN TANK  
PI21-6 TURB WTR DRAIN TANK  
PI21-6 TURB WTR DRAIN TANK  
NONE TURB WTR DRAIN TANK  
PI21- TURB WTR DRAIN TANK  
PI21-6 TURB WTR DRAIN TANK

PI21-6 TURB WTR DRAIN TANK  
PI21-6 J WTR DRAIN TANK

PI21-6 TURB WTR DRAIN TANK  
PI21-6 TURB WTR DRAIN TANK  
PI21-6 TURB WTR DRAIN TANK

PI21-3 RECIR CONTAINMENT TANK 1A LOCAL

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FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF  
COLORADO  
PNEU

TM148 9  
TM229 9  
NONE 9  
NONE 9

EI131 9  
TM136 9  
BT138 9  
TM136 9  
NONE 9  
NONE 9

PS126 1  
21-1-35 9 1

CV134 9 5  
NONE 9 63  
PS128 1

TI104 1

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M2497 P1692 E1713  
NONE NONE E1713  
NONE NONE E1892  
NONE P1780 E1713

P1638 P2230 E1297  
M250F P1661 E1709  
NONE P1775 E1709  
NONE P1775 E1709  
NONE P.1774 E1892  
NONE P1774 E1709

M250F P.537 E1467  
PI82284 P2537 E1467

MASONERIL NONE NONE  
NONE P0768 E1892  
M250F P2643 E1803

NONE NONE NONE

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INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TW21133	PI21-3	RECIR CONTAINMENT TANK 1A	LOCAL	TW116	9 102			NONE	M134A	NONE	NONE
<del>TI</del> 21134 D	PI21-3	RECIR CONTAINMENT TANK 1C	LOCAL	TI104	16-78	NO-SD		NONE	NONE	NONE	NONE
TW21134	PI21-3	RECIR CONTAINMENT TANK 1C	LOCAL	TW116	9 102			NONE	M134A	NONE	NONE
<del>LI</del> 21135 B	PI21-4	BRG WTR SURGE TK 1A	I02	EI131	93-78?	NS	3	P1834	NONE	P2229	E1297
<del>LT</del> 21135A	PI21-4	BRG WTR SURGE TK 1A	I123	TM136	93-78?	NS	3	P1834	M133E	P2229	E1708
LAHL21135	PI21-4	BRG WTR SURGE TK 1A	I02	NONE	9 53			P204?		P1778	E1883
LSHL21135	PI21-4	BRG WTR SURGE TK 1A	I70	NONE	9 53		3	P1834	NONE	P1778	E1708
<del>LI</del> 21136 B	PI21-4	BRG WTR SURGE TK 1B	I02	EI131	93-78?	NS	3	P1834	NONE	P1778	E1297
<del>LT</del> 21136A	PI21-4	BRG WTR SURGE TK 1B	LOCAL	TM136	93-78?	NS	3	P1834	M133E	P1645	E1708
LAHL21136	PI21-4	BRG WTR SURGE TK 1B	I02	NONE	9 53			P2052	NONE	P1778	E1983
LSHL21136	PI21-4	BRG WTR SURGE TK 1B	I70	NONE	9 53		3	P1834	NONE	P1778	E1708
FE21137	PI21-7	CIRC 1A EMERG BRG WTR	LOCAL	FE126	9 2			NONE	FOXBORO	NONE	NONE
<del>FI</del> 21137 B	PI21-7	CIRC 1A EMERG BRG WTR	I02	EI132	96/78?	A-SD	2	P1850	NONE	P1747	E1297
<del>FM</del> 21137 B	PI21-7	CIRC 1A EMERG BRG WTR	I62	TM189	96/78?	A-SD	2	P1850	NONE	P1745	E1711
<del>FT</del> 21137 B	PI21-7	CIRC 1A EMERG BRG WTR	I125	TM121	96/78?	A-SD	2	P1850	13G.8.6	P1690	E1711
FE21137	PI21-7	CIRC 1A EMERG BRG WTR	I02	NONE	9 53			P2040	NONE	P.1747	E1891
<del>FI</del> 21137 A	PI21-7	CIRC 1A EMERG BRG WTR	I125	PS147	97/78 12	A-SD	2	P481	13. 8.6	P2645	E1536

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	07	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
FSH21137 B	PI21-7	CIRC 1A EMERG BRG WTR	I70	NONE	9 53		A-SD		P1850	NONE	P1747	E1711
FE21138	PI21-9	CIRC 1C EMERG BRG WTR	LOCAL	FE126	9 2			-1A4	NONE	M192F5	NONE	NONE
FI21138 B	PI21-9	CIRC 1C EMERG BRG WTR	I02	EI132	9/6/78 2		C-SD	2	P1850	NONE	P1747	E1297
FH21138 B	PI21-9	CIRC 1C EMERG BRG WTR	I62	TM189	9/6/78 2		C-SD	2	P1850	NONE	P1799	E1711
FT21138 B	PI21-9	CIRC 1C EMERG BRG WTR	I134	TM121	9/6/78 2		C-SD	2	-3B2 P1850	130.8.6	P1691	E1711
FAH21138	PI21-9	CIRC 1C EMERG BRG WTR	I02	NONE	9 53				P2050	NONE	P1747	E1892
FIS21138 A	PI21-9	CIRC 1C EMERG BRG WTR	I134	PS147	9/2/77 12		C-SD	2	-3B2 P493	130.8.6	P2648	E1537
FSH21138 B	PI21-9	CIRC 1C EMERG BRG WTR	I70	NONE	9 53		A-SD		P1850	NONE	P1747	E1711
FE21139	PI21-8	CIRC 1B EMERG BRG WTR	LOCAL	FE126	9 2			-3C6	NONE	M194B2	NONE	NONE
FI21139 B	PI21-8	CIRC 1B EMERG BRG WTR	I02	EI132	9/6/78 2		B-SD	2	P1851	NONE	P1747	E1297
FH21139 B	PI21-8	CIRC 1B EMERG BRG WTR	I62	TM189	9/6/78 2		B-SD	2	P1851	NONE	P1749	E1711
FT21139 B	PI21-8	CIRC 1B EMERG BRG WTR	I131	TM121	9/6/78 2		B-SD	2	-3C1 P1851	130.8.6	P1690	E1711
FAH21139	PI21-8	CIRC 1B EMERG BRG WTR	I02	NONE	9 53				P2040	NONE	P1747	E1891
FIS21139 A	PI21-8	CIRC 1B EMERG BRG WTR	I131	PS147	9/2/77 12		B-SD	2	-3C1 P487	130.8.6	P2648	E1536
FSH21139 B	PI21-8	CIRC 1B EMERG BRG WTR	I70	NONE	9 53		B-SD		P1851	NONE	P1747	E1711
FE21140	PI21-10	CIRC 1D EMERG BRG WTR	LOCAL	FE126	9 2			-1A4	NONE	M192F5	NONE	NONE
FI21140 B	PI21-10	CIRC 1D EMERG BRG WTR	I02	EI132	9/6/78 2		D-SD	2	P1851	NONE	P1748	E1297
FH21140 B	PI21-10	CIRC 1D EMERG BRG WTR	I62	TM189	9/6/78 2		D-SD	2	P1851	NONE	P1749	E1711

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 DATE 12-12-77 SHEET

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
FT21140	3	PI21-10 CIRC 10 EMERG BRG WTR	LOCAL	TH121	9/6/78 2	D-SD	2 -1A5	P1851	130.8.6	P1647	E1711
FAH21140		PI21-10 CIRC 10 EMERG BRG WTR	I02	NONE	9 53			P2050	NONE	P1747	E1892
FIS21140/A		PI21-10 CIRC 10 EMERG BRG WTR	LOCAL	PS147	9/6/77 12	D-SD	2 -1A5	P499	130.8.6	P2647	E1803
FSH21140	B	PI21-10 CIRC 10 EMERG BRG WTR	I70	NONE	9 53			P1851	NONE	P1747	E1711
TH21141	B	PI21-5 BACKUP BRG WTR COOLER OUT	LOCAL	NONE	9/6/78 2	no SD	2 D2	P776	PI822B1		E1355
JV21141	B	PI21-5 BACKUP BRG WTR COOLER OUT	LOCAL	CV109	9 5	no SD	2 -2C6	NONE	PI822B1	NONE	NONE
TW21141		PI21-5 BACKUP BRG WTR COOLER OUT	LOCAL	TW103	9 5	no SD	- B2	NONE	M134A	NONE	NONE
TIC21141	B	PI21-5 BACKUP BRG WTR COOLER OUT	LOCAL	TI101	9/6/78 5	no SD	2 -2C6	NONE	PI822B1	NONE	NONE
HS21142		PI46-4 BACKUP BRG WTR COOLER	I02	CS134		-2		P473	NONE	P2611	E1293
HV21142-1		PI46-4 BRG WTR COOLER COOLING	LOCAL	SUPP.3		-56	3 E8	P517	M234A2	P606	E1117
HV21142-2		PI46-4 BRG WTR COOLER COOLING	LOCAL	SUPP.3		-56	3 E8	P518	M196A2	P606	E1117
HV21142-3		PI46-4 BRG WTR COOLER COOLING	LOCAL	SUPP.3		-56	3 A2	P519	M234A2	P610	E1117
HV21142-4		PI46-4 BRG WTR COOLER	LOCAL	SUPP3		-56	6 E8	P524	M234A2	606	E1128
TW21142		PI21-5 BACKUP BRG WTR COOLER OUT	LOCAL	TW196		?	32	NONE	M134A	NONE	NONE
ZS21142-1		PI46-4 BRG WTR COOLER	LOCAL	SUPP3		-56	-3 2	P517	E64A2	606	E1117
ZS21142-2		PI46-4 BRG WTR COOLER	LOCAL	SUPP3		-56	-3 2	P518	E64A2	606	E1117
ZS21142-3		PI46-4 BRG WTR COOLER	LOCAL	SUPP3		-56	-3 2	P519	E64A2	610	E1117
ZS21142-4		PI46-4 BRG WTR COOLER	LOCAL	SUPP3		-56	2	P524	E64A2	606	E1129
TAH21142		PI21-5 BRG WTR COOLER COOLING	I02	NONE		-63		P2043	NONE	PC780	E1883

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
W-ISH21142	B	PI21-5	BACKUP BRG WTR COOLER OUT	LOCAL	TI102	1478 NS	<u>2</u> -206	P473	M234B2	P2641	E1486
HV21143		PI46-4	BRG WTR COOLER COOLING	LOCAL	SUPP.3	9 36 3	E7	P520	M234A2	P605	E1117
TW21143		PI21-5	BACKUP BRG WTR COOLER OUT	LOCAL	TW196	1	B2	NONE	M134A	NONE	NONE
W-ISH21143	B	PI21-5	BACKUP BRG WTR COOLER OUT	LOCAL	TI102	1478 NS	<u>2</u> -206	P473	M234B2	P2641	E1486
10 PCV21144	B	PI21-6	BRG WTR REMOVAL PUMPS OUT	LOCAL	CV134	9 5 NS	<u>2</u> -304	NONE	M194A6	NONE	NONE
FE21145		PI21-7	CIRC 1A UPPER DRAIN FLOW	LOCAL	FE108	9 2 -	-	-3B6 NONE	M194E3	NONE	NONE
FE21146		PI-29-9	CIRC 1C UPPER DRAIN FLOW	LOCAL	FE106	9 2 -	-	-3A3 NONE	M194E6	NONE	NONE
FE21147		PI21-8	CIRC 1J UPPER DRAIN FLOW	LOCAL	FE108	9 2 -	-	-305 NONE	M194A4	NONE	NONE
FE21148		PI21-10	CIRC 1D UPPER DRAIN FLOW	LOCAL	FE108	9 2 -	-	-3D5 NONE	M194A5	P1748	E1544
PDIS21149 C		PI21-7	CIRC 1A BRG WTR LEAK	I127	PS113	9 2 112 SI	-	-3C2 NONE	M134B	P2573	E1538
XDIS21149 C		1893-7	CIRC 1A BRG WTR LEAK	I10	BT113	9 1 SI	-	P2104	NONE	P2573	E1414
PDIS21150 C		PI21-9	CIRC 1C BRG WTR LEAK	I138	PS113	9 2 112 SI	-	-3A2 NONE	M134B	P2565	E1538
XDIS21150 C		1893-7	CIRC 1C BRG WTR LEAK	I10	BT113	9 1 SI	-	P2118	NONE	P2565	E1408

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SHEET 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
PDIS21151 C	PI21-7	CIRC 1A BRG WTR LEAK	I127	PS113	912-77 12	SI	- -3C2	NONE	M134B	P2573	E1538
XDIS21151 C	IB93-7	CIRC 1A BRG WTR LEAK	I10	BT113	9 1	SI	-	P2104	NONE	P2573	E1412
PDIS21152 C	PI21-9	CIRC 1C BRG WTR LEAK	I138	PS113	912-77 12	SI	- -3A2	NONE	M134B	P2561	E1538
XDIS21152 C	IB93-7	CIRC 1C BRG WTR LEAK	I10	BT113	9 1	SI	-	P2118	NONE	P2561	E1406
PDIS21153 C	PI21-7	CIRC 1A BRG WTR LEAK	I127	PS113	912-77 12	SI	- -3C2	NONE	M134B	P2577	E1538
XDIS21153 C	IB93-7	CIRC 1A BRG WTR LEAK	I10	BT113	9 1	SI	-	P2104	NONE	P2577	E1413
PDIS21154 C	PI21-9	CIRC 1C BRG WTR LEAK	I138	PS113	912-77 12	SI	- -3A2	NONE	M134B	P2564	E1538
XDIS21154 C	IB93-7	CIRC 1C BRG WTR LEAK	I10	BT113	9	SI	-	P2118	NONE	P2564	E1407
PDIS21155 C	PI21-8	CIRC 1B BRG WTR LEAK	I130	PS113	912-77 2	SI	- -3D1	NONE	M134B	P2574	E1538
XDIS21155 C	IB93-7	CIRC 1B BRG WTR LEAK	I10	BT113	93	SI	-	P2105	NONE	P2574	E1414
PDIS21156 C	PI21-10	CIRC 1D BRG WTR LEAK	I141	PS113	930-77 2	SI	- -3B1	NONE	M134B	P2565	E1538
XDIS21156 C	IB93-7	CIRC 1D BRG WTR LEAK	I10	BT113	93	SI	-	P2119	NONE	P2565	E1408
PDIS21157 C	PI21-8	CIRC 1B BRG WTR LEAK	I130	PS113	912-77 2	SI	- -3D1	NONE	M134B	P2574	E1538
XDIS21157 C	IB93-7	CIRC 1B BRG WTR LEAK	I10	BT113	91	SI	-	P2105	NONE	P2574	E1412
PDIS21158 C	PI21-10	CIRC 1D BRG WTR LEAK	I141	PS113	912-78 12	SI	- -3B1	NONE	M134B	P2561	E1538

FROM 21151 TO 21158

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPFC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
XDIS21158 C	IB93-7	CIRC 10 BRG WTR LEAK	I10	BT113	9 1	SI	-	P2119	NONE	P2561	E1406
PDIS21159 C	PI21-8	CIRC 18 BRG WTR LEAK	I130	PS113	9/2-77 12	SI	-J01	NONE	M134B	P2577	E1538
XDIS21159 C	IB93-7	CIRC 18 BRG WTR LEAK	I10	BT113	9 1	SI	-	P2105	NONE	P2577	E1413
PDIS21160 C	PI21-10	CIRC 10 BRG WTR LEAK	I141	PS113	9/2-77 2	SI	-J01	NONE	M134B	P2564	E1538
XDIS21160 C	IB93-7	CIRC 10 BRG WTR LEAK	I10	BT113	9	SI	-	P2119	NONE	P2564	E1407
SE21161-1 F	PI21-1	CIRC 1A SPEED	PCR V	NONE	93		-	NONE	GGA	P2800	E1411
SE21161-2 F	PI21-1	CIRC 1A SPEED (SPARE)	PCR V	NONE	93		-	NONE	GGA	P2800	E1411
SH21161A	PI21-1	CIRC 1A SPEED	I10	NONE	93 5/76	NS	-1	NONE	GGA	P2801	E1411
SM21161-1 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	93	SI	-		GGA		
SM21161-2 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	93	SI	-		GGA		
ST21161 C	PI21-1	CIRC 1A SPEED	I10	TM144	93	SI	-		GGA		
SSH21161 C	IB93-8	CIRC 1A SPEED HIGH	I10	BT115	93	SI	-	P2104	GGA	P792	E1410
SSH21161-1 C	IB93-8	WAT TURB OVERSPD CIRC 1A	I10	NONE	93	SI	-	P2104	GGA	P792	E1410
SSL21161-1 C	IB93-8	CIRC 1A SPEED PROGRAM LOW	I10	BT115	93	SI	-	P2104	GGA	P-	E1410
SSL21161-2 C	IB93-8	CIRC 1A SPEED FIXED LOW	I10	BT115	93	SI	-	P2104	GGA	P792	E1410
SE21162-1 F	PI21-2	CIRC 1C SPEED	PCR V	NONE	93			NONE	GGA	P2804	E1411
SE21162-2 F	PI21-2	CIRC 1C SPEED (SPARE)	PCR V	NONE	93			NONE	GGA	P2804	E1411



ILC20U

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
9C-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 20

LISTED BY SYSTEM 21

INSTRUMENT NUMBER C1	PI OR CI DWG D2	SERVICE D3	INST LOC ATION D4	INST DATA SHEET D5	PROCURE MENT SPEC D6	PNEU ELECT POWER SUPPLY D7	INST LOCATION DRAWING D8	ELEM SCHEME DRAWING D9	INST INSTALL DRAWING D10	CABLE TAB DRAWING D11	ELECT CONN DRAWING D12
SM21162 A	PI21-2	CIRC 1C SPEED	I10	NONE	9/5/78	NS	-	NONE	GGA	P2805	E1411
SM21162-1 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9 1	SI	-		GGA		
SM21162-2 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9 1	SI	-		GGA		
ST21162 C	PI21-2	CIRC 1C SPEED	I10	TM144	9 1	SI	-		GGA		
SSH21162 C	IB93-8	CIRC 1C SPEED HIGH	I10	BT115	9 1	SI	-	P2118	GGA	P792	E1410
SSH21162-1 C	IB93-8	WAT TURB OVERSPD CIRC 1C	I10	NONE	9 1	SI	-	P2118	GGA	P792	E1410
SSL21162-1 C	IB93-8	CIRC 1C SPEED PROGRAM LOW	I10	BT115	9 1	SI	-	P2118	GGA	P792	E1410
SSL21162-2 C	IB93-8	CIRC 1C SPEED FIXED LOW	I10	BT115	9 1	SI	-	P2118	GGA	P792	E1410
SE21163-1 F	PI21-1	CIRC 1A SPEED	PCR V	NONE	9 1			NONE	GGA	P2800	E1409
SE21163-2 F	PI21-1	CIRC 1A SPEED (SPARE)	PCR V	NONE	9 1			NONE	GGA	P2800	E1409
SM21163 A	PI21-1	CIRC 1A SPEED	I10	NONE	9 5/78	NS	-	NONE	GGA	P2801	E1409
SM21163-1 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9 1	SI	-		GGA		
SM21163-2 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9 1	SI	-		GGA		
ST21163 C	PI21-1	CIRC 1A SPEED	I10	TM144	9 1	SI	-		GGA		
SSH21163 C	IB93-8	CIRC 1A SPEED HIGH	I10	BT115	9 1	SI	-	P2104	GGA	P792	E1410
SSH21163-1 C	IB93-8	WAT TURB OVERSPD CIRC 1A	I10	NONE	9 1	SI	-	P2104	GGA	P792	E1410
SSL21163-1 C	IB93-8	CIRC 1A SPEED PROGRAM LOW	I10	BT115	9 1	SI	-	P2104	GGA	P792	E1410
SSL21163-2 C	IB93-8	CIRC 1A SPEED LOW	I10	BT115	9 1	SI	-	P2104	GGA	P792	E1410
SE21164-1 F	PI21-2	CIRC 1C SPEED	PCR V	NONE	9 1			NONE	GGA	P2804	E1409

FROM 21162 TO 21164

ILD20U

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 20

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG G2	SERVICE D3	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
SE21164-2 F	PI21-2	CIRC 1C SPEED (SPARE)	PCR V	NONE	9 6		-	NONE	GGA	P2804	E1409
SM21164 A	PI21-2	CIRC 1C SPEED	I10	NONE	5/8 6	NS	-1	NONE	GGA	P2805	E1409
SM21164-1 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9 1	SI	-		GGA		
SM21164-2 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9 1	SI	-		GGA		
ST21164 C	PI21-2	CIRC 1C SPEED	I10	TM144	9 1	SI	-		GGA	P2808	E1406
SSH21164 C	IB93-8	CIRC 1C SPEED HIGH	I10	BT115	9 1	SI	-	P2118	GGA	P0792	E1410
SSH21164-1 C	IB93-8	WAT TURB OVERSPD CIRC 1C	I10	NONE	9 1	SI	-	P2118	GGA	P792	E1410
SSL21164-1 C	IB93-8	CIRC 1C SPEED PROGRAM LOW	I10	BT115	9 1	SI	-	P2118	GGA	P792	E1410
SSL21164-2 C	IB93-8	CIRC 1C SPEED FIXED LOW	I10	BT115	9 1	SI	-	P2118	GGA	P792	E1410
SE21165-1 F	PI21-1	CIRC 1A SPEED	PCR V	NONE	9 6		-	NONE	GGA	P2800	E1410
SE21165-2 F	PI21-1	CIRC 1A SPEED (SPARE)	PCR V	NONE	9 6		-	NONE	GGA	P2800	E1410
SM21165 A	PI21-1	CIRC 1A SPEED	I10	NONE	9 5/8	NS	-1	NONE	GGA	P2800	E1410
SM21165-1 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9 1	SI	-		GGA		
SM21165-2 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9 1	SI	-		GGA		
ST21165 C	PI21-1	CIRC 1A SPEED	I10	TM144	9 1	SI	-		GGA		
SSH21165 C	IB93-8	CIRC 1A SPEED HIGH	I10	BT115	9 1	SI	-	P2104	GGA	P792	E1410
SSH21165-1 C	IB93-8	WAT TURB OVERSPD CIRC 1A	I10	NONE	9 1	SI	-	P2104	GGA	P792	E1410
SSL21165-1 C	IB93-8	CIRC 1A SPEED PROGRAM LOW	I10	BT115	9 1	SI	-	P2104	GGA	P792	E1410
SSL21165-2 C	IB93-8	CIRC 1A SPEED FIXED LOW	I10	BT115	9 1	SI	-	P2104	GGA	P792	E1410
SE21166-1 F	PI21-2	CIRC 1C SPEED	PCR V	NONE	9 5		-	NONE	GGA	P2804	E1410

ILO200

LISTED BY SYSTEM 21

INSTRUMENT  
NUMBER  
CI  
PI OR  
CI DWG  
02

SE21166-2 F

SM21166A

SM21166-1 C

SM21166-2 C

ST21166 C

SSH21166 C

SSH21166-1C

SSL21166-1C

SSL21166-2 C

SE21167-1 F

SE21167-2 F

SM21167A

SM21167-1 C

SM21167-2 C

ST21167 C

SSH21167 C

SSH21167-1 C

SSL21167-1 C

SSL21167-2 C

SE21168-1 F

INSTRUMENT LIST  
FORT ST VRAIN UNIT  
PUBLIC SERVICE COMPANY OF

INST  
LOC  
ATION  
04

SERVICE  
03

PI21-2 CIRC 1C SPEED (SPARE)

PI21-2 CIRC 1C SPEED

I893-8 LOW FW FLOW TRIP PROGRAM

I893-8 LOW FW FLOW TRIP PROGRAM

PI21-2 CIRC 1C SPEED

I893-8 CIRC 1C SPEED HIGH

I893-8 WAT TURB OVERSPD CIRC 1C

I893-8 CIRC 1C SPEED PROGRAM LOW

I893-8 CIRC 1C SPEED FIXED LOW

PCR V

PCR V

I10

I10

I10

I10

I10

I10

I10

I10

I10

I10

PCR V

INST  
DATA  
SHEET  
05

PROCURE  
MENT  
SPEC  
06

NONE 9 6

NONE 9 4/86

MS125 9 1

MS125 9 1

TH144 9 1

BT115 9 1

NONE 9 1

BT115 9 1

BT115 9 1

NONE 9 3

NONE 9 3

NONE 9 5/785

MS125 9 1

MS125 9 1

TH144 9 1

BT115 9 1

NONE 9 1

BT115 9 1

BT115 9 1

BT115 9 1

NONE 9 1

NONE 9 1

INST  
LOCATION  
DRAWING  
08

ELECT  
POWER  
SUPPLY  
07

NONE

NS

SI

SI

SI

SI

SI

SI

SI

NONE

NONE

NONE

P2118

P2118

P2118

P2118

NONE

NONE

NONE

P2105

P2105

P2105

P2105

INST  
DRAWING  
10

ELEM  
SCHEME  
DRAWING  
C9

NONE

NONE

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GG A

GULF GENERAL ATOMIC  
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CABLE  
TAB  
DRAWING  
11

INSTALL  
DRAWING  
10

P2804

P2804

P2804

P2804

P0792

P0792

P0792

P0792

P0792

P0792

P2802

P2802

P2803

P792

P792

P792

P792

P792

P792

P792

P792

P2806

E1411

E1410

E1410

E1410

FROM 21166 TO 211

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

ILO200  
LISTED BY SYSTEM 21  
INSTRUMENT  
NUMBER

INSTRUMENT NUMBER	PI OR CI DWG 02	SERVICE 03	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC P. 06	ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONV DRAWING 12
SE21168-2 F	PI21-2	CIRC 10 SPEED (SPARE)	PCRV	NONE	5				GGA	P2806	E1411
SM21168 A	PI21-2	CIRC 10 SPEED	I10	NONE	5/78 6	NS		NONE	GGA	P2807	E1411
SM21168-1 C	I093-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI			GGA		
SM21168-2 C	I093-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI			GGA		
ST21168 C	PI21-2	CIRC 10 SPEED	I10	TM144	9	SI			GGA	P2808	E1408
SSH21168 C	I093-8	CIRC 10 SPEED HIGH	I10	BT115	9	SI		P2119	GGA	P830	E1410
SSH21169-1 C	I093-8	WAT TURB OVERSPD CIRC 10	I10	NONE	9	SI		P2119	GGA	P830	E1410
SSL21168-1 C	I093-8	CIRC 10 SPEED PROGRAM LOW	I10	BT115	9	SI		P2119	GGA	P830	E1410
SSL21168-2 C	I093-8	CIRC 10 SPEED FIXED LOW	I10	BT115	9	SI		P2119	GGA	P830	E1410
SE21169-1 F	PI21-1	CIRC 1B SPEED	PCRV	NONE	9			NONE	GGA	P2802	E1409
SE21169-2 F	PI21-1	CIRC 1B SPEED (SPARE)	PCRV	NONE	9			NONE	GGA	P2802	E1409
SM21169 A	PI21-1	CIRC 1B SPEED	I10	NONE	9 5/78	NS		NONE	GGA	P2803	E1409
SM21169-1 C	I093-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI			GGA		
SM21169-2 C	I093-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI			GGA		
ST21169 C	PI21-1	CIRC 1B SPEED	I10	TM144	9	SI			GGA		
SSH21169 C	I093-8	CIRC 1B SPEED HIGH	I10	BT115	9	SI		P2105	GGA	P0792	E1410
SSH21169-1 C	I093-8	WAT TURB OVERSPD CIRC 1B	I10	NONE	9	SI		P2105	GGA	P0792	E1410
SSL21169-1 C	I093-8	CIRC 1B SPEED PROGRAM LOW	I10	BT115	9	SI		P2105	GGA	P0792	E1410
SSL21169-2 C	I093-8	CIRC 1B SPEED FIXED LOW	I10	BT115	9	SI		P2105	GGA	P0792	E1410
SE21170-1 F	PI21-2	CIRC 10 SPEED	PCRV	NONE	5			NONE	GGA	P2806	E1409

ILO2GU

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 209

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR C1 DWG G2	SERVICE O3	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
SE21170-2 F	PI21-2	CIRC 10 SPEED (SPARE)	PCR V	NONE	9		-	NONE	GGA	P2806	E1409
SM21170 A	PI21-2	CIRC 10 SPEED	I10	NONE	9 5/78	NS	-	NONE	GGA	P2807	E1409
SM21170-1 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI	-		GGA		E1406
SM21170-2 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI	-		GGA		
ST21170 C	PI21-2	CIRC 10 SPEED	I10	TM144	9	SI	-		GGA		
SSH21170 C	IB93-8	CIRC 10 SPEED HIGH	I10	BT115	9	SI	-	P2119	GGA	P830	E1410
SSH21170-1 C	IB93-8	WAT TURB OVERSPD CIRC 10	I10	NONE	9	SI	-	P2119	GGA	P830	E1410
SSL21170-1 C	IB93-8	CIRC 10 SPEED PROGRAM LOW	I10	BT115	9	SI	-	P2119	GGA	P830	E1410
SSL21170-2 C	IB93-8	CIRC 10 SPEED FIXED LOW	I10	BT115	9	SI	-	P2119	GGA	P830	E1410
SE21171-1 F	PI21-1	CIRC 1B SPEED	PCR V	NONE	9		-	NONE	GGA	P2802	E1410
SE21171-2 F	PI21-1	CIRC 1B SPEED (SPARE)	PCR V	NONE	9		-	NONE	GGA	P2802	E1410
SM21171 A	PI21-1	CIRC 1B SPEED	I10	NONE	9 5/78	NS	-	NONE	GGA	P2802	E1410
SM21171-1 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI	-		GGA		
SM21171-2 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI	-		GGA		
ST21171 C	PI21-1	CIRC 1B SPEED	I10	TM144	9	SI	-		GGA		
SSH21171 C	IB93-8	CIRC 1B SPEED HIGH	I10	BT115	9	SI	-	P2105	GGA	P792	E1410
SSH21171-1 C	IB93-8	WAT TURB OVERSPD CIRC 1B	I10	NONE	9	SI	-	P2105	GGA	P792	E1410
SSL21171-1 C	IB93-8	CIRC 1B SPEED PROGRAM LOW	I10	BT115	9	SI	-	P2105	GGA	P792	E1410
SSL21171-2 C	IB93-8	CIRC 1B SPEED FIXED LOW	I10	BT115	9	SI	-	P2105	GGA	P792	E1410
SE21172-1 F	PI21-2	CIRC 10 SPEED	PCR V	NONE	9		-	NONE	GGA	P2806	E1410

FROM 21170 TO 21172

ILO20U

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 210

LISTED BY SYSTEM 21

INSTRUMENT NUMBER C1	PI OR CI DWG G2	SERVICE Q3	INST LOC ATION Q4	INST DATA SHEET Q5	PROCURE MENT SPEC Q	PNEU ELECT POWER SUPPLY Q7	INST LOCATION DRAWING Q8	ELEM SCHEME DRAWING Q9	INST INSTALL DRAWING Q10	CABLE TAB DRAWING Q11	ELECT CONN DRAWING Q12
SE21172-2 F	PI21-2	CIRC 1D SPEED (SPARE)	PCR V	NONE	9		-	NONE	GGA	P2806	E1410
SM21172 A	PI21-2	CIRC 1D SPEED	I10	NONE	95/78	NS	-	NONE	GGA	P2809	E1410
SM21172-1 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI	-		GGA		
SM21172-2 C	IB93-8	LOW FW FLOW TRIP PROGRAM	I10	MS125	9	SI	-		GGA		
ST21172 C	PI21-2	CIRC 1D SPEED	I10	TM144	9	SI	-		GGA		
SSH21172 C	IB93-8	CIRC 1D SPEED HIGH	I10	BT115	9	SI	-	P2119	GGA	P830	E1410
SSH21172-1 C	IB93-8	WAT TURB OVERSPD CIRC 1D	I10	NONE	9	SI	-	P2119	GGA	P830	E1410
SSL21172-1 C	IB93-8	CIRC 1D SPEED PROGRAM LOW	I10	BT115	9	SI	-	P2119	GGA	P830	E1410
SSL21172-2 C	IB93-8	CIRC 1D SPEED FIXED LOW	I10	BT115	9	SI	-	P2119	GGA	P830	E1538
PDIS21173 C	PI21-7	CIRC 1A LOSS OF BRG WTR	I127	PS113	9/12-77.2	SI	- -3C2	NONE	M22503	P2573	E1538
XDIS21173 C	IB93-8	CIRC 1A LOSS OF BRG WTR	I10	BT113	9	SI	-	P2104	NONE	P2573	E1414
PDIS21174 C	PI21-9	CIRC 1C LOSS OF BRG WTR	I138	PS113	9/12-77.2	SI	- -3A2	NONE	M232E5	P2564	E1538
XDIS21174 C	IB93-8	CIRC 1C LOSS OF BRG WTR	I10	BT113	9	SI	-	P2118	NONE	P2565	E1408
PDIS21175 C	PI21-7	CIRC 1A LOSS OF BRG WTR	I127	PS113	9/12-77.2	SI	- -3C2	NONE	M22503	P2573	E1538
XDIS21175 C	IB93-8	CIRC 1A LOSS OF BRG WTR	I10	BT113	9	SI	-	P2104	NONE	P2573	E1412
PDIS21176 C	PI21-9	CIRC 1C LOSS OF BRG WTR	I138	PS113	9/12-77.2	SI	- -3A2	NONE	M232E5	P2561	E1538
XDIS21176 C	IB93-8	CIRC 1C LOSS OF BRG WTR	I10	BT113	9	SI	-	P2118	NONE	P2561	E1406

FROM 21172 TO 21176

ILO20U

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 21

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI OWG G2	SERVICE O3	INST LOC ATION O4	INST DATA SHEET O5	PROCURE MENT SPEC O6	PNEU ELECT POWER SUPPLY O7	INST LOCATION DRAWING O8	ELEM SCHEME DRAWING O9	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
<del>PD</del> DIS21177 C	PI21-7	CIRC 1A	LOSS OF BRG WTR	I127	PS113	93-77 12 SI	-3C2	NONE	M22503	P2577	E1538
<del>XD</del> IS21177 C	IB93-8	CIRC 1A	LOSS OF BRG WTR	I10	BT113	9 1 SI	-	P2104	NONE	P2577	E1413
<del>PD</del> IS21178 C	PI21-9	CIRC 1C	LOSS OF BRG WTR	I138	PS113	92-77 12 SI	-3A2	NONE	M232E5	P2564	E1538
<del>XD</del> IS21178 C	IB93-8	CIRC 1C	LOSS OF BRG WTR	I10	BT113	9 1 SI	-	P2118	NONE	P2564	E1407
<del>PD</del> IS21179 C	PI21-8	CIRC 1B	LOSS OF BRG WTR	I129	PS113	96/8 12 SI	-3D1	NONE	M23207	P2574	E1538
<del>XD</del> IS21179 C	IB93-8	CIRC 1B	LOSS OF BRG WTR	I10	BT113	9 1 SI	-	P2105	NONE	P2574	E1414
<del>PD</del> IS21180 C	PI21-10	CIRC 1D	LOSS OF BRG WTR	I141	PS113	912-77 12 SI	-3B1	NONE	130.8.6	P2565	E1538
<del>XD</del> IS21180 C	IB93-8	CIRC 1D	LOSS OF BRG WTR	I10	BT113	9 1 SI	-	P2119	NONE	P2565	E1408
<del>PD</del> IS21181 C	PI21-8	CIRC 1B	LOSS OF BRG WTR	I129	PS113	92-77 12 SI	-3D1	NONE	M22507	P2574	E1538
<del>XD</del> IS21181 C	IB93-8	CIRC 1B	LOSS OF BRG WTR	I10	BT113	9 1 SI	-	P2105	NONE	P2574	E1412
<del>PD</del> IS21182 C	PI21-10	CIRC 1D	LOSS OF BRG WTR	I141	PS113	912-77 12 SI	-3B1	NONE	M204C7	P2561	E1538
<del>XD</del> IS21182 C	IB93-8	CIRC 1D	LOSS OF BRG WTR	I10	BT113	9 1 SI	-	P2119	NONE	P2591	E1406
<del>PD</del> IS21183 C	PI21-8	CIRC 1B	LOSS OF BRG WTR	I129	PS113	912-77 12 SI	-3D1	NONE	M22507	P2577	E1538
<del>XD</del> IS21183 C	IB93-8	CIRC 1B	LOSS OF BRG WTR	I10	BT113	9 1 SI	-	P2105	NONE	P2577	E1413
<del>PD</del> IS21184 C	PI21-10	CIRC 1D	LOSS OF BRG WTR	I141	PS113	912 17 12 SI	-3B1	NONE	M232C6	P2564	E1538

ILD20U

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 2

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
XDIS21184 C	IB93-8	CIRC 1D LOSS OF BRG WTR	I10	DT113	9 1	SI	1-	P2119	NONE	P2564	E1407
<del>HC21185</del>	<del>PI21-7</del>	<del>CIRC 1A BRG WTR</del>	<del>I02</del>	<del>CR142</del>	<del>9 2</del>	<del>A-SD</del>	<del>3</del>	P1839	NONE	P2633	E1709
HV21185 A	PI21-7	CIRC 1A BRG WTR	LOCAL	CV126	9 5	A-SD	1	P1839	PI822C6	P1760	E1519
H/PDC21185 A	PI21-7	CIRC 1A BRG WTR	I02	CR142	9/78 2	A-SD	3,1	2512B	NONE		E1709
PDT21185 A	PI21-7	1A HE/WTR-MAIN DRN & P	LOCAL	TM215	97/78 2	A-SD	3	P1839	M130.8.6		E1517
XEP-21185 A	NONE	1A HE/WTR-MAIN DRN & P	I39A	TM215	97/78 2	A-SD	1	P1839	NONE		E1713
XPS21185 A	NONE	1A HE/WTR-MAIN DRN & P	I39A	TM215	97/78 2	A-SD	3	P1839	NONE		E1713
XSL21185 A	PI21-7	CIRC 1A BRG WTR	I39	DT137	99-76 2	RF	-	P1839	NONE	P1761	E1709
<del>HC21186</del>	<del>PI21-9</del>	<del>CIRC 1C BRG WTR</del>	<del>I02</del>	<del>CR142</del>	<del>9 2</del>			P1840	NONE	P2634	E1709
HV21186 A	PI21-9	CIRC 1C BRG WTR	LOCAL	CV126	9 5	C-SD	1	P1840	PI822B3	P1761	E1709
H/PDC21186 A	PI21-9	CIRC 1C BRG WTR	I02	CR142	9/77 2	C-SD	3,1	2512B	NONE		E1709
PDT21186 A	PI21-9	1C HE/WTR-MAIN DRN & P	LOCAL	TM215	9/77 12	C-SD	3	P1840	M130.8.6		E1518
XEP-21186 A	NONE	1C HE/WTR-MAIN DRN & P	I40A	TM215	96/77 2	C-SD	1	P1840	NONE		E1713
XPS21186 A	NONE	1C HE/WTR-MAIN DRN & P	I40A	TM215	96/77 2	C-SD	3	P1840	NONE		E1713
XSL21186 A	PI21-9	CIRC 1C BRG WTR	I40	BT137	99-78 2	RF	-	P1840	NONE	P1761	E1709
<del>HC21187</del>	<del>PI21-8</del>	<del>CIRC 1B BRG WTR</del>	<del>I02</del>	<del>CR142</del>	<del>9 2</del>			P1839	NONE	P2633	E1709
HV21187 A	PI21-8	CIRC 1B BRG WTR	LOCAL	CV126	9 5	B-SD	1	P1839	PI822B3	P1760	E1709
H/PDC21187 A	PI21-8	CIRC 1B BRG WTR	I02	CR142	96/78 2	B-SD	3,1	2512B	NONE		E1709
PDT21187 A	PI21-8	1B HE/WTR-MAIN DRN & P	LOCAL	TM215	9/77 12	B-SD	3	P1839	M130.8.6		E1517
XEP-21187 A	NONE	1B HE/WTR-MAIN DRN & P	I39A	TM215	9/77 2	B-SD	1	P1839	NONE		E1713
XPS21187 A	NONE	1B HE/WTR-MAIN DRN & P	I39A	TM215	9/77 2	C-SD	-	P1839	NONE		E1713



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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC	INST DATA SHEET	PROCUREMENT SPEC	ELECT PNEU POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INSY INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
12 XSL21187 A	PI21-8	CIRC 1B BRG WTR	I39	BT137	9 9-76 2	RF	-	P1839	NONE	P1761	E1709
<del>HC21188</del>	<del>PI21-10</del>	<del>CIRC 1D BRG WTR</del>	<del>I02</del>	<del>CR142</del>	<del>9 2</del>			P1840	130.10.4	P2634	E1709
<del>HV21188 A</del>	PI21-10	CIRC 1D BRG WTR	LOCAL	CV126	9 5	D-SD	1 -3C4	P1840	PI822C3	P1761	E1520
11 XE PDC21188 A	PI21-10	CIRC 1D BRG WTR	I02	CR142	9 6/77 2	D-SD	3,1	2512B	NONE		E1709
<del>PDI21188 A</del>	PI21-10	1D HE/WTR-MAIN DRN & P	LOCAL	TM215	9 6-77 12	D-SD	3	-2C4	P1840	M130.8.6	E1518
XEP-21188 A	NONE	HE/WTR-MAIN DRN & P	140A	TM215	9 6-77 12	D-SD	1		P1840	NONE	E1713
XPS21188 A											
12 XSL21188 A	PI21-10	CIRC 1D BRG WTR	I40	BT137	9 4-78 2	RF	-	P1840	130.10.4	P1761	E1709
14 PI21189 C	PI21-5	EMERG FW HDR TO HE CIRC	I02	EI131	9 3-78 2	SI	-	P1841	NONE	P1760	E1497
13 AS21189 C	PI21-5	EMERG FW HDR TO HE CIRC	I39	BT140	9 8-78 53	SI	-	P1841	NONE	P1760	E1707
8 RT21189 C	PI21-5	EMERG FW HDR TO HE CIRC	I128	TM106	9 3-78 2	SI	-	-3C2	P1841	M54D2	P1690 E1707
PAL21189 C	PI21-5	EMERG FW HDR TO HE CIRC	(I02)	NONE	9 63	R/11		P2043	NONE	PC777	E1459
XPS21189 C	NONE	EMERG FW HDR TO HE CIRC	I39	MS111	9 2	RF/SI		P1841	NONE	P1760	E1707
HS21190	PI21-5	EMERG FW FILTERS 1A + 1B	I02	CS135	9 2			P463	NONE	P591	E1288
HV21190-1	PI21-5	EMERG FW FILTERS 1A	LOCAL	21-1-34	9 1	2	1 -2C6	P464	M234B2	PO5911	E1113
HV21190-2	PI21-5	EMERG FW FILTERS 1B	LOCAL	21-1-34	9 1	3	1 -2C6	P465	M234B2	PO605	E1117
ZI21190-1	PI21-5	EMERG FW FILTER 1A	I02	CS135	9 2	2	1	P464	NONE	P591	E1274
ZI21190-2	PI21-5	EMERG FW FILTER 1B	I02	CS135	9 2	3	1	P465	NONE	P591	E1274
ZS21190-1	PI21-5	EMERG FW FILTER 1A	LOCAL	21-1-34	9 1	2	1	P464	NONE	PO591	E1113

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 FORT ST VRAIN UNIT 1  
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GULF GENERAL ATOMIC  
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 DATE 12-12-77 SHEET

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE D3	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CAB' TAB DRAWING	ELECT CONN DRAWING	
01	02	03	04	05	06	07	08	09	10	11	12	
ZS21190-2	PI21-5	EMERG FW FILTER 1B	LOCAL	21-1-34	9			P465	NONE	P605	E1117	
POAH21190	PI21-5	EMERG FW FILTERS 1A + 1B	IU2	NONE	9	13		P2043	NONE	P0780	E1883	
POIS21190 A	PI21-5	EMERG FW FILTERS 1A + 1B	LOCAL	PS111	96-7B	12	NS	2	P463	130.8.6	P2611	E1805
HS21191	PI21-11	CIRC 1A SEAL SYSTEM	IO2	CS135	9	2		P476	VELAN	25252	E1291	
HV21191-1	PI21-11	CIRC 1A SEAL SYSTEM	ICC	21-2-3	9	1	A-SD	P477/479	PI82484	27135	E1884	
HV21191-2	PI21-11	CIRC 1A SEAL SYSTEM	ICC	21-2-4	9	1	A-SD	P477/479	PI82484	27137	E1294	
HV21191-3	PI21-11	CIRC 1A BRAKE SYS	ICC	21-2-3	9	1	A-SD	P479	NONE	2714	E1816	
HV21191-4	PI21-11	CIRC 1A BRAKE SYS	ICC	21-2-4	9	1	A-SD	P479	NONE	2714	E1816	
ZI21191-1	PI21-11	CIRC 1A SEAL SYSTEM	IO2	CS135	9	2		P477	NONE	26159	E1279	
ZI21191-2	PI21-11	CIRC 1A SEAL SYSTEM	IO2	CS135	9	2		P477	NONE	26159	NONE	
ZS21191-1	PI21-11	CIRC 1A SEAL SYSTEM	ICC	21-2-3	9	1		P477	NONE	27136	E1816	
ZS21191-2	PI21-11	CIRC 1A SEAL SYSTEM	ICC	21-2-4	9	1		P477	NONE	27138	E1816	
ZS21191-3	PI21-11	CIRC 1A BRAKE SYS	ICC	21-2-3	9	1		P477	NONE	2636	E1816	
ZS21191-4	PI21-11	CIRC 1A BRAKE SYS	ICC	21-2-4	9	1		P477	NONE	2636	E1816	
POIS21191 A	PI12-11	CIRC 1A SEAL SYSTEM	LOCAL	PS165	7/78	12	A-SD	2 E1	P481	M134B	26503	E1486
HS21192	PI21-14	CIRC 1C SEAL SYSTEM	IO2	CS134		2		P488	NONE	25263	E1292	
HV21192-1	PI21-14	CIRC 1C SEAL SYSTEM	IDD	21-2-4		1	C-SD	P489/491	PI82483	27175	E1292	
HV21192-2	PI21-14	CIRC 1C SEAL SYSTEM	IDD	21-2-4		1	C-SD	P489/491	PI82483	2717	E1292	
HV21192-3	PI21-14	CIRC 1C BRAKE SYS	IDD	21-2-4		1	C-SD	P491	NONE	2718	E1816	

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
HV21192-4	PI21-14	CIRC 1C BRAKE SYS	IDD	21-2-4	9 1	C-SD	-1C1	P491	NONE	2718	E1816
ZI21192-1	PI21-14	CIRC 1C SEAL SYSTEM	IO2	CS134	9 2			P489	NONE	2637	E1280
ZI21192-2	PI21-14	CIRC 1C SEAL SYSTEM	IO2	CS134	9 2			P489	NONE	2637	E1280
ZS21192-1	PI21-14	CIRC 1C SEAL SYS	IDD	21-2-4	9 1			P489	NONE	2717	E1816
ZS21192-2	PI21-14	CIRC 1C SEAL SYS	IDD	21-2-4	9 1			P489	NONE	2717	E1816
ZS21192-3	PI21-11	CIRC 1C BRAKE SYS	IDD	21-2-4	9 1			P489	NONE	2637	E1816
ZS21192-4	PI21-11	CIRC 1C BRAKE SYS	IDD	21-2-4	9 1			P489	NONE	2637	E1816
PDIS21192 A	PI21-14	CIRC 1C SEAL SYSTEM	LOCAL	PS165	9-2-77 12	C-SD	2-1A4	P493	M134B	26512	E1803
HS21193	PI21-11	CIRC 1B SEAL SYSTEM	IO2	CS135	9 2			P482/487	NONE	2525	E1291
HV21193-1	PI21-11	CIRC 1B SEAL SYSTEM	IAA	21-2-5	9 1	B-SD A	-1C2	P483/485	PI824B3	2715	E1294
HV21193-2	PI21-11	CIRC 1B SEAL SYSTEM	IAA	21-2-5	9 1	B-SD A	-1C2	P483/485	PI824B2	2715	E1294
HV21193-3	PI21-11	CIRC 1B BRAKE SYS	IAA	21-2-5	9 1	B-SD	-1C2	P485	NONE	2716	E1816
HV21193-4	PI21-11	CIRC 1B BRAKE SYS	IAA	21-2-5	9 1	B-SD	-1C2	P485	NONE	2716	E1816
ZI21193-1	PI21-11	CIRC 1B SEAL SYSTEM	IO2	CS135	9 2			P483	NONE	2636	E1279
ZI21193-2	PI21-11	CIRC 1B SEAL SYSTEM	IO2	CS135	9 2			P483	NONE	2636	E1279
ZS21193-1	PI21-11	CIRC 1B SEAL SYSTEM	IAA	21-2-5	9 1			P483	NONE	2715	E1816
ZS21193-2	PI21-11	CIRC 1B SEAL SYSTEM	IAA	21-2-5	9 1			P483	NONE	2715	E1816
ZS21193-3	PI21-11	CIRC 1B BRAKE SYS	IAA	21-2-5	9 1			P483	NONE	2636	E1816
ZS21193-4	PI21-11	CIRC 1B BRAKE SYS	IAA	21-2-5	9 1			P483	NONE	2636	E1816
PDIS21193 A	PI21-11	CIRC 1B SEAL SYSTEM	LOCAL	PS165	9-2-77 12	B-SD	2	P487	M134B	2651	E1803

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG 02	SERVICE 03	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
HS21194	PI21-14	CIRC 1D SEAL SYSTEM	IO2	CS135	9 2	P3		P494	NONE	2625	E1292
<del>HV21194-1</del>	PI21-14	CIRC 1D SEAL SYSTEM	IBB	21-2-5	9 1	D-SD		P495/497	PI824B2	2719	E1292
<del>HY21194-2</del>	PI21-14	CIRC 1D SEAL SYSTEM	IBB	21-2-5	9 1	D-SD		P495/497	PI824B2	2719	E1292
<del>HV21194-3</del>	PI21-14	CIRC 1D BRAKE SYS	IBB	21-2-5	9 1	D-SD		P497	NONE	2720	E1816
<del>HV21194-4</del>	PI21-14	CIRC 1D BRAKE SYS	IBB	21-2-6	9 1	D-SD		P497	NONE	2720	E1816
ZI21194-1	PI21-14	CIRC 1D SEAL SYSTEM	IO2	CS135	9 2			P495	NONE	2637	E1280
ZI21194-2	PI21-14	CIRC 1D SEAL SYSTEM	IO2	CS135	9 2			P495	NONE	2637	E1280
ZS21194-1	PI21-14	CIRC 1D SEAL SYSTEM	IBB	21-2-5	9 1			P495	NONE	2713	E1816
ZS21194-2	PI21-14	CIRC 1D SEAL SYSTEM	IBB	21-2-6	9 1			P495	NONE	2713	E1816
ZS21194-3	PI21-14	CIRC 1D BRAKE SYS	IBB	21-2-5	9 1			P495	NONE	2637	E1816
ZS21194-4	PI21-14	CIRC 1D BRAKE SYS	IBB	21-2-6	9 1			P495	NONE	2637	E1816
<del>PDIS21194</del> A	PI21-14	CIRC 1D SEAL SYSTEM	LOCAL	PS165	9 (77) 12	D-SD	2	P499	M134B	2651	E1484
<del>10-PCV21199</del> A	PI21-11	CIRC 1A BRAKE SYSTEM	LOCAL	NONE	1	A-SD	3	NONE	383177	NONE	NONE
<del>10-PCV21200</del> A	PI21-14	CIRC 1C BRAKE SYSTEM	LOCAL	NONE	1	C-SD	3	NONE	383183	NONE	NONE
<del>10-PCV21201</del> A	PI21-11	CIRC 1B BRAKE SYSTEM	LOCAL	NONE	1	B-SD	3	NONE	383171	NONE	NONE
<del>10-PCV21202</del> A	PI21-14	CIRC 1D BRAKE SYSTEM	LOCAL	NONE	1	D-SD	3	NONE	383189	NONE	NONE
HS21203	PI21-11	CIRC 1A BRAKE SYSTEM	IO2	CS135	9 ?			P476	NONE	2525	E1291

FROM 21194 TO 21203

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC	INST DATA	PROCURE MENT	ELECT POWER SUPPLY	INST LOCATION	ELEM SCHEME	INSTALL DRAWING	CABLE TAB	ELECT CONN
01	02	03	04	05	06	07	08	09	10	11	12
HV21203-1	PI21-11	CIRC 1A	ICC	21-2-6	9	1	A-5D	P477/479	PI82404	2713	E1291
HV21203-2	PI21-11	CIRC 1A	ICC	21-2-6	9	1	A-5D	P477/479	PI82484	2713	E1291
HV21203-3	PI21-11	CIRC 1A	ICC	21-2-6	9	1	A-5D	P479	NONE	2714	E1291
HV21203-4	PI21-11	CIRC 1A	ICC	21-2-6	9	1	A-5D	P479	NONE	2714	E1816
ZI21203-1	PI21-11	CIRC 1A	I02	CS135	9	2		P477	NONE	2636	E1279
ZI21203-2	PI21-11	CIRC 1A	I02	CS135	9	2		P477	NONE	2636	E1279
ZS21203-1	PI21-11	CIRC 1A	ICC	21-2-6	9	1		P477	NONE	2713	E1291
ZS21203-2	PI21-11	CIRC 1A	ICC	21-2-6	9	1		P477	NONE	2713	E1291
ZS21203-3	PI21-11	CIRC 1A	ICC	21-2-6	9	1		P477	NONE	2636	E1816
ZS21203-4	PI21-11	CIRC 1A	ICC	21-2-6	9	1		P477	NONE	2636	E1816
POIC21203	PI21-11	CIRC 1A	LOCAL	PS164	9	12	A-5D			3714	
HS21204	PI21-14	CIRC 1C	I02	CS135	9	1		P488	NONE	2526	E1292
HV21204-1	PI21-14	CIRC 1C	I00	21-2-7	9	1	C-5D	P489/491	PI82483	2717	E1292
HV21204-2	PI21-14	CIRC 1C	I00	21-2-7	9	1	C-5D	P489/491	PI82483	2717	E1292
HV21204-3	PI21-14	CIRC 1C	I00	21-2-7	9	1	C-5D	P479	NONE	2718	E1816
HV21204-4	PI21-14	CIRC 1C	I00	21-2-7	9	1	C-5D	P491	NONE	2718	E1816
ZI21204-1	PI21-14	CIRC 1C	I02	CS135	9	1		P489	NONE	2621	E1260
ZI21204-2	PI21-14	CIRC 1C	I02	CS135	9	1		P489	NONE	2621	E1260
ZS21204-1	PI21-14	CIRC 1C	I00	21-2-7	9	1		P489	NONE	2717	E1816
ZS21204-2	PI21-14	CIRC 1C	I00	21-2-7	9	1		P489	NONE	2717	E1816

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GULF GENERAL ATOMIC  
9C-IL-6-7 ISSUE M  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DMG SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	04	05	0	07	08	C9	10	11	12
ZS21204-3	PI21-14	IDD	21-2-7	9	1	P489	NONE	2636	E1816	
ZS21204-4	PI21-14	IDD	21-2-7	9	1	P489	NONE	2636	E1816	
DPIC21204	PI21-14	LOCAL	PS164	9	6-7-72	C-SD3	1A4			
HS21205	PI21-11	IO2	CS135	9	2	P482	NONE	2525	E1291	
HV21205-1	PI21-11	IAA	21-2-7	9	1	B-50 A	-1C2 P483/485	PI82482	2715	E1291
HV21205-2	PI21-11	IAA	21-2-8	9	1	B-50 A	-1C2 P483/485	PI82482	2715	E1291
HV21205-3	PI21-11	IAA	21-2-7	9	1	B-50	-1C2 P485	NONE	2716	E1816
HV21205-4	PI21-11	IAA	21-2-8	9	1	B-50	-1C2 P485	NONE	2716	E1816
ZI21205-1	PI21-11	IO2	CS135	9	1	P483	NONE	2617	E1279	
ZI21205-2	PI21-11	IO2	CS135	9	1	P483	NONE	2617	E1279	
ZS21205-1	PI21-11	IAA	21-2-7	9	1	P483	NONE	2715	E1816	
ZS21205-2	PI21-11	IAA	21-2-8	9	1	P483	NONE	2715	E1816	
ZS21205-3	PI21-11	IAA	21-2-7	9	1	P483	NONE	2636	E1816	
ZS21205-4	PI21-11	IAA	21-2-8	9	1	P483	NONE	2636	E1816	
DPIC21205	PI21-11	LOCAL	PS164	9	6-7-72	B-50				
HS21206	PI21-14	IO2	CS135	9	1	P494	NONE	2526	E1292	
HV21206-1	PI21-14	IBB	21-2-8	9	1	D-50	-1C1 P495/497	PI82481	2719	E1292
HV21206-2	PI21-14	IBB	21-2-8	9	1	D-50	-1C1 P495/497	PI82481	2719	E1292
HV21206-3	PI21-14	IBB	21-2-8	9	1	D-50	-1C1 P497	NONE	2720	E1816

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LISTED BY SYSTEM 21

INSTRUMENT  
NUMBER  
01

PI OR  
CI ORG  
02

SERVICE  
03

INST  
LOC  
ATION  
C4

INST  
DATA  
SHEET  
05

PROCURE  
MENT  
SPEC  
06

ELECT  
POWER  
SUPPLY  
07

INST  
LOCATION  
DRAWING  
08

ELEM  
SCHEME  
DRAWING  
09

INST  
INSTALL  
DRAWING  
10

CABLE  
TAB  
DRAWING  
11

ELECT  
COIN  
DRAWING  
12

4HV21206-4

PI21-14 CIRC 1D BRAKE SYS

IBB

21-2-8 9

1

5-SD

-1C1 P497

NONE 2720 E1816

Z121206-1

PI21-14 CIRC 1D BRAKE SYSTEM

IO2

CS135 9

2

P495

NONE 2637 E1280

Z121206-2

PI21-14 CIRC 1D BRAKE SYSTEM

IO2

CS135 9

2

P495

NONE 2637 E1280

ZS21206-1

PI21-14 CIRC 1D BRAKE SYSTEM

IBB

21-2-8 9

1

P495

NONE 2719 E1816

ZS21206-2

PI21-14 CIRC 1D BRAKE SYSTEM

IOB

21-2-8 9

1

P495

NONE 2719 E1815

ZS21206-3

PI21-14 CIRC 1D BRAKE SYS

IBB

21-2-8 9

1

P495

NONE 2637 E1816

ZS21206-4

PI21-14 CIRC 1D BRAKE SYS

IBB

21-2-8 9

1

P495

NONE 2637 E1816

DPDIC21206 D

PI21-14 CIRC 1D BRAKE SYSTEM

LOCAL

PS164 9/6-77 12

D-SD

-104

FE21208 A

PI21-4 BRG WTR SURGE TK 1B EM FW LOCAL

LOCAL

FE127 9

2

NONE

M195A3 NONE

NONE

FAH21208

PI21-4 BRG WTR SURGE TK 1B EM FW LOCAL

IO2

NONE 9

6J

NONE

2

NONE

B FIS21208 A

PI21-4 BRG WTR SURGE TK 1B EM FW LOCAL

LOCAL

PS120 9/3-78 12

2-SD

2-303 P2052

130.8.6 P0792 E1535

FE21209 A

PI21-4 BRG WTR SURGE TK 1A EM FW LOCAL

LOCAL

FE127 9

2

NONE

M195A3 NONE

NONE

FAH21209

PI21-4 BRG WTR SURGE TK 1A EM FW LOCAL

IO2

NONE 9

6J

NONE

2

NONE

B FIS21209 A

PI21-4 BRG WTR SURGE TK 1A EM FW LOCAL

LOCAL

PS120 9/3-78 12

1-SD

2-303

130.8.6 P0792 E1535

DP121211 D

PI21-3 BUFF HE RECIRC OUTLET

LOC.L

PS101 1/7/78

1-SD

ES NONE

M134F NONE

HS21212

PI21-4 CHEMICAL INJECTION SYSTM

LOCAL

CS146 9

2

P502

NONE

P0034 E1122

HS21213

PI21-3 BUFF HE RECIRC 1B

IO2

CS135 9

2

P179

NONE

P600 E1288

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 22

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CY DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12	
→HV21213	PI21-3	BUFF HE RECIRC 1B	LOCAL	21-2-9	9 1	1-SD	-2C6	P510	PI822A5	P2771	E1804	
ZI21213	PI21-3	BUFF HE RECIRC 1B	IO2	CS135	9 2			P510	NONE	P600	E1274	
ZS21213	PI21-3	BUFF HE RECIRC 1B	LOCAL	21-2-9	9 1			P510	NONE	P2771	E1804	
HS21214	PI21-3	BUFF HE RECIRC 1D	IO2	CS135	9 ?	?		P181	NONE	P601	E1291	
→HV21214	PI21-3	BUFF HE RECIRC 1D	LOCAL	21-2-9	9 1	2-SD	-2D5	P512	PI822A5	P2679	E1291	
ZI21214	PI21-3	BUFF HE RECIRC 1D	IO2	CS135	9 ?			P512	NONE	P601	E1275	
ZS21214	PI21-3	BUFF HE RECIRC 1D	LOCAL	21-2-9	9 1			P512	NONE			
LS21217 A	PI21-3	RECIR CONTAINMENT TK 1B	LOCAL	PS127	1 NG	1-SD	3	-2D6	P2025	M250B	P0816	E1890
LAH21217	PI21-3	RECIR CONTNMT TK 1B	IO1	NONE	9 13			P2025	NONE			
LS21218 A	PI21-3	RECIR CONTAINMENT TK 1D	LOCAL	PS127	1 NG	2-SD	3	-2D6	P2029	M250B	P0816	E1890
LAH21218	PI21-3	RECIR CONTNMT TK 1D	IO1	NONE	9 13			P2029	NONE			
II21219 D	PI21-3	RECIR CONTNMT TK 1B	LOCAL	TI104	16-7B	NS			NONE	NONE	NONE	NONE
TW21219	PI21-3	RECIR CONTNMT TK 1B	LOCAL	TW116	9 IO2		35	NONE	M134A	NONE	NONE	
II21220 D	PI21-3	RECIR CONTNMT TK 1D	LOCAL	TI104	16-7B	NS			NONE	NONE	NONE	NONE
TW21220	PI21-3	RECIR CONTNMT TK 1D	LOCAL	TW116	9 IO2		35	NONE	M134A	NONE	NONE	
II21221 D	PI21-3	RECIR CONTNMT TK 1B	LOCAL	TI104	16-7B	NS			NONE	NONE	NONE	NONE



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INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPFC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
TW21221	PI21-3	RECIR CONTNMT TK 1B	LOCAL	TW116	9 102		19	NONE	M134A	NONE	NONE
<i>D</i> TW21222	PI21-3	RECIR CONTNMT TK 1D	LOCAL	TI104	16-78	NS		NONE	NONE	NONE	NONE
TW21222	PI21-3	RECIR CONTNMT TK 1D	LOCAL	TW116	9 102		110	NONE	M134A	NONE	NONE
<i>D</i> TW21223	PI21-3	BUFF HE COOLER 1B OUTLET	LOCAL	TI104	16-78	NS		NONE	NONE	NONE	NONE
TW21223	PI21-3	BUFF HE COOLER 1D OUTLET	LOCAL	TW116	9 102		19	NONE	M134A	NONE	NONE
<i>D</i> TW21224	PI21-3	BUFF HE COOLER 1D OUTLET	LOCAL	TI104	16-78	NS		NONE	NONE	NONE	NONE
TW21224	PI21-3	BUFF HE COOLER 1D OUTLET	LOCAL	TW116	9 102		110	NONE	M134A	NONE	NONE
<del>HW</del> HV21225	PI21-3	HE DRYER UNIT FILTERS	F2104X	NONE	2 1	NS	2H			PRITCH	
<del>HW</del> HV21226	PI21-3	HE DRYER UNIT FILTERS	F2104SX	NONE	2 1	NS	2H			PRITCH	
PDAH21227	PI21-3	HE DRYER UNIT FILTERS	<u>I31</u>	NONE	9 53					NONE	
FE21229	PI21-3	BUFF HE RECIRCULATOR 1A	LC	FE128	9 2		-206	NONE	M234A9	NONE	NONE
FAL21229	PI21-3	RECIRC CONTAIN TNK 1A	<u>I02</u>	NONE	9 63		3	P178	NONE		
<i>B</i> FIS21229 <i>A</i>	PI21-3	RECIRC CONTAIN TNK 1A	LOCAL	PS135	94/78 12	NS	3	-206 E1203	130.8.6	P2570	E1108
FE21230	PI21-3	BUFF HE RECIRCULATOR 1C	LOCAL	FE128	9 2		02	NONE	M234A9	NONE	NONE

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INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
FAL21230	PI21-3	RECIRC CONTAIN TNK 1C	IO2	NONE	9 13	—	3	P180	NONE		
B-FIS21230 A	PI21-3	RECIRC CONTAIN TNK 1C	LOCAL	PS135	9 8/78.2	NS	3 -206	P0180	130.8.6	P2570	E1468
FE21231	PI21-3	BUFF HE RECIRCULATOR 1B	LOCAL	FE128	9 1	—	— -206	NONE	M234C9	NONE	NONE
FAL21231	PI21-3	RECIRC CONTAIN TNK 1B	IO2	NONE	9 13	—	3	P179	NONE		
B-FIS21231 A	PI21-3	RECIRC CONTAIN TNK 1B	LOCAL	PS135	9 10-77.2	NS	3 -206	P0179	130.8.6	P2570	E1453
FE21232	PI21-3	BUFF HE RECIRCULATOR 1D	LOCAL	FE128	9 1	—	— -206	NONE	M234C9	NONE	NONE
FAL21232	PI21-3	RECIRC CONTAIN TNK 1D	IO2	NONE	9 13	—	3	P181	NONE		
B-FIS21232 A	PI21-3	RECIRC CONTAIN TNK 1D	LOCAL	PS135	9 9-77.2	NS	3 -206	P0181	130.8.6	P2570	E1110
HV21233	PI21-3	RECIRC CONTAIN TNK 1A	LOCAL	21-1-40	9:		-206	P503	PI828A5	P2529	E1459
B LSH21233 A	PI21-3	RECIRC CONTAIN TNK 1A	LOCAL	PS144	1-5-75	1-SD	3 -206	P503	M250B	P2529	E1459
HV21234	PI21-3	RECIRC CONTAIN TNK 1C	LOCAL	21-1-40	9:		-205	P504	PI828A5	P2543	E1471
B LSH21234 A	PI21-3	RECIRC CONTAIN TNK 1C	LOCAL	PS144	1-NE	2-SD	3 -206	P504	M250B	P2543	E1471
HV21235	PI21-3	RECIRC CONTAIN TNK 1B	LOCAL	21-1-40	9:		-206	P503	PI828A5	P2543	
B LSH21235 A	PI21-3	RECIRC CONTAIN TNK 1B	LOCAL	PS144	1-NE	1-SD	3 -206	P503	M250B	P2543	
HV21236	PI21-3	RECIRC CONTAIN TNK 1D	LOCAL	21-1-40	9:		-205	P504	M234A3	P2533	E1459

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INSTRUMENT LIST  
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INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC	INST DATA SHEET	PROCUREMENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
B LSH21236 A	PI21-3	RECIRC CONTAIN TNK 1D	LOCAL	PS144	1	2-SD	3	-2D6 P504	M250B	P2529	E1459
D PI21241 D	PI21-5	LOOP 1 BRG WTR FILTER OUT	LOCAL	PS101	1 7/78	NS	05	NONE	130.10.3	NONE	NONE
D PI21242 D	PI21-5	LOOP 2 BRG WTR FILTER OUT	LOCAL	PS101	1 6/78	NS	07	NONE	130.10.3	NONE	NONE
B 14 PI21243 A	PI21-5	LOOP 1 TURB WTR HDR	IC2	NONE	95-77 2	1-SD	3		130.10.3		
4 PI21243 B	PI21-5	LOOP 1 TURB WTR HDR	LOCAL	NONE	95-77 2	1-SD	3	-3B6	130.10.4		
<del>PV21243 A</del>	PI21-5	LOOP 1 EMERG FW TO CIRC	LOCAL	CV106	9 5	1-SD A	3	-3A6 NONE	PI822C5	NONE	NONE
<del>PV21243-1 A</del>	PI21-5	TURB WTR L1 SUPPLY VENT	LOCAL	CV136	9 5	1-SD A	3	-3A6 NONE	PI822C5	NONE	NONE
<del>OPIC21243 A</del>	PI21-5	LOOP 1 EMERG FW TO CIRC	LOCAL	PI101	97-77 5	1-SD A	3	-3B6 NONE	PI822C5	NONE	NONE
<del>XEP21243</del>	<del>PI82-2</del>	<del>LOOP 1 TURB WTR HDR</del>	<del>LOCAL</del>	<del>CV106</del>	9 5	<del>1-SD A</del>			130.11.1		
<del>XPS21243 B</del>	PI21-5	LOOP 1 TURB WTR HDR	I29A	NONE	96-77 2	1-SD	3			P1728	E1703
B 14 PI21244 A	PI21-5	LOOP 2 TURB WTR HDR	ID2	NONE	95-77 2	2-SD	3		130.10.3		
8 PI21244 B	PI21-5	LOOP 2 TURB WTR HDR	LOCAL	NONE	92-77 2	2-SD	3	-3A3	130.10.3		
<del>PV21244 A</del>	PI21-5	LOOP 2 EMERG FW TO CIRC	LOCAL	CV106	9 5	2-SD 3	3	-3A3 NONE	PI822B3	NONE	NONE
<del>PV21244-1 A</del>	PI21-5	TURB WTR L2 SUPPLY VENT	LOCAL	CV136	9 5	2-SD 3	3	-3A3 NONE	PI822B3	NONE	NONE
10 PIC21244 A	PI21-5	LOOP 2 EMERG FW TO CIRC	LOCAL	PI101	99-77 1	2-SD 3	3	-3A3 NONE	PI822B3	NONE	NONE
<del>XPS21244 B</del>	PI21-5	LOOP 2 TURB WTR HDR	I29B	NONE	96-77 2	2-SD	3			P1728	E1703
<del>LC21245 A</del>	PI21-4	BRG WTR SURGE TK 1A	LOCAL	LI101	9 2-78 1	1-SD 1	3	-2B6 NONE	PI822A3	NONE	NONE

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INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC	INST DATA SHEET	PROCUREMENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
LV21245 A	PI21-4	BRG WTR SURGE TK 1A	LOCAL	CV108	9 5	1-SD1	3	-2B5 NONE	PI822A3	NONE	NONE
LC21246 A	PI21-4	BRG WTR SURGE TK 1B	LOCAL	LI101	92-78	12-SD1	3	-2A4 NONE	PI822A3	NONE	NONE
LV21246 A	PI21-4	BRG WTR SURGE TK 1B	LOCAL	CV108	9 5	12-SD1	3	-2B5 NONE	PI822A3	NONE	NONE
<sup>D</sup> 1 1/4 PI21247 D	PI21-4	BRG WTR PUMP 1A+1B OUTLET	LOCAL	PS101	1-6/78	NS	—	02 NONE	130.10.3	NONE	NONE
<sup>D</sup> 1 1/4 PI21248 D	PI21-4	BRG WTR PUMP 1C+1D OUTLET	LOCAL	PS101	1-6/78	NS	—	03 NONE	130.10.3	NONE	NONE
TE21249	PI21-5	LOOP 1 BRG WATER	LOCAL	TE112	91			P1841	NONE	P1645	E1708
16-1 JI21249 B	PI21-5	LOOP 1 BRG WATER	I02	EI131	93-6-78	NS	2	P1841	NONE	P2230	E1297
17-1 JI21249 B	PI21-5	LOOP 1 BRG WATER	I39	TM171	93-6-78	NS	2	P1841	NONE	P1660	E1708
TW21249	PI21-5	LOOP 1 BRG WATER	LOCAL	TW107	91		05	NONE	M134A	NONE	NONE
TAH21249	PI21-5	LOOP 1 BRG WATER	I02	NONE	93 3			P2043	NONE		
TSH21249	PI21-5	LOOP 1 BRG WATER	I70	NONE	93 3	NS	2	P1841	NONE		
TE21250	PI21-5	LOOP 2 BRG WATER	LOCAL	TE112	93			P1841	NONE	P1650	E1708
16-1 JI21250 B	PI21-5	LOOP 2 BRG WATER	I02	EI131	93-6-78	NS	2	P1841	NONE	P2230	E1297
17-1 JI21250 B	PI21-5	LOOP 2 BRG WATER	I40	TM171	93-6-78	NS	2	E4 P1841	NONE		E1708
TW21250	PI21-5	LOOP 2 BRG WATER	LOCAL	TW107	93		07	NONE	M134A	NONE	NONE
TAH21250	PI21-5	LOOP 2 BRG WATER	I02	NONE	93 3		E4		NONE		

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG D2	SERVICE O3	INST LOC ATION O4	INST DATA SHEET O5	PROCURE MENT SPEC O6	PNEU ELECT POWER SUPPLY O7	INST LOCATION DRAWING O8	ELEM SCHEME DRAWING O9	INST DRAWING O10	CABLE TAB DRAWING O11	ELECT CONN DRAWING O12
TSH21250	PI21-5	LOOP 2 BRG WATER	I70	NONE	9 3	NS	2:4	P1841	NONE		
HS21251		RAD MON CHKSOURCE TRIP OV	I14	CS157	9 3						
IS-RT21251 C	PI21-6	LOW PRESS SEPARATOR	LOCAL	RI105	9 3	SI	-2C4		M160A6	P921	E1630
RV21251-1	PI21-6	LOW PRESSURE SEPARATOR	LOCAL	21-1-26	9 1		-2D4	P475	PI822B4	P2610	E1800
RV21251-2	PI21-6	LOW PRESSURE SEPARATOR	LOCAL		9 5		A9	P475	PI822C2	P2610	E1800
IS-RT21251 C	PI21-6	LOW PRESS SEPARATOR	I14	RI105	9 B-773	SI	-	P2029	NONE	P2610	E1436
HS21252	PI21-6	BRG WTR REMOVAL PUMP RECL	I02	CS135	9 2			P475	NONE	P2610	E1290
HV21252-1	PI21-6	BRG WTR REMOVAL PUMP RECL	LOCAL	21-1-17	9 1	NS	-3D3	P475	PI822B4	P2610	E1290
HV21252-2	PI21-6	BRG WTR REMOVAL PUMP RECL	LOCAL	21-1-17	9 1	NS	-2D4	P475	PI822B3	P2610	E1800
HV21252-5	PI21-4	BRG WTR MAKEUP PUMP IN	LOCAL	21-1-24	9 1	NS	-3D3	P475	PI822B4	P2609	E1290
ZI21252-5	PI21-4	BRG WTR MAKEUP PUMP IN	I02	CS135	9 2			P475	NONE	P2610	E1274
ZS21252-5	PI21-4	BRG WTR MAKEUP PUMP IN	LOCAL	21-1-24	9 1			P475	NONE		
HSV21252-2	PI82-2	BRG WTR ENG DRAW VA	LOCAL	NONE	F		-2D4	P522	NONE		
HS21257	PI21-7	EM CONDSATE TO WTR TURBIA	I05	CS125	9 2			P505	NONE		E1323
HV21257	PI21-7	EM CONDSATE TO WTR TURBIA	LOCAL	21-1-38	9 1	A-SD	-1B6	P505	PI872D2	P2516	E1329
HS21258	PI21-9	EM CONDSATE TO WTR TURBIC	I05	CS125	9 2			P506	NONE	P2516	E1325
HV21258	PI21-9	EM CONDSATE TO WTR TURBIC	LOCAL	21-1-38	9 1	C-SD	-1A4	P506	PI822D2	P2516	E1329

FROM 21250 TO 21258

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
HS2.259	PI21-8	EM CONDSATE TO WTR TURBIB	IO5	CS125	9	?		P507	NONE	P2517	E1323
<del>HS</del> HV21259	PI21-8	EM CONDSATE TO WTR TURBIB	LOCAL	21-1-38	9	1	B-SD	-1C6 P507	PI82202	P2517	E1331
HS21260	PI21-10	EM CONDSATE TO WTR TURBID	IO5	CS125	9	?		P508	NONE	P2517	E1325
<del>HS</del> HV21260	PI21-10	EM CONDSATE TO WTR TURBID	LOCAL	21-1-38	9	1	D-SD	-3C4 P508	PI82885	P2517	E1332
TE21265-1	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-2	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-3	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-4	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-5	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-6	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-7	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-8	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-9	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-10	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-11	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-12	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-13	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-14	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120
TE21265-15	PI21-1	CIRC 1A BRG HOUSING TEMP	PCRV	NONE	9	34		NONE	CNT SENS	P2761	N920120

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	ELECT PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TE21266-1 T	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2744	N920120
TE21266-2	PI21-2	PC FLANGE	PCRV	NONE	9 34			NONE	CNT SENS	P2744	N920120
TE21266-3	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2744	N920120
TE21266-4	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2744	N920120
TE21266-5	PI21-2	PC FLANGE	PCRV	NONE	9 34			NONE	CNT SENS	P2744	N920120
TE21266-6	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2744	N920120
TE21266-7	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2744	N920120
TE21266-8	PI21-2	PC FLANGE	PCRV	NONE	9 4			NONE	CNT SENS	P2744	N920120
TE21266-9	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 4			NONE	CNT SENS	P2744	N920120
TE21266-10	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 4			NONE	CNT SENS	P2744	N920120
TE21266-11	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 4			NONE	CNT SENS	P2744	N920120
TE21266-12	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 4			NONE	CNT SENS	P2744	N920120
TE21266-13	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 4			NONE	CNT SENS	P2744	N920120
TE21266-14	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 4			NONE	CNT SENS	P2744	N920120
TE21266-15 F	PI21-2	CIRC 1C BRG HOUSING TEMP	PCRV	NONE	9 4			NONE	CNT SENS	P2744	N920120
HS21267	PI21-2	CIRC BRG HOUSING TEMP	I13	MV109	93				NONE		NONE
TE21267-1 F	PI21-1	CIRC 1B BRG HOUSING TEMP	PCRV	NONE	93 4			NONE	CNT SENS	P2763	N920120
TE21267-2	PI21-1	CIRC 1B BRG HOUSING TEMP	PCRV	NONE	93 4			NONE	CNT SENS	P2763	N920120
TE21267-3	PI21-1	CIRC 1B BRG HOUSING TEMP	PCRV	NONE	93 4			NONE	CNT SENS	P2763	N920120
TE21267-4 T	PI21-1	CIRC 1B BRG HOUSING TEMP	PCRV	NONE	93-1-34			NONE	CNT SENS	P2763	N920120

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GULF GENERAL ATOMIC  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TE21267-5 F	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-6	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-7	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-8	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-9	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-10	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-11	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-12	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-13	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-14	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
TE21267-15 F	PI21-1	CIRC 1B BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2763	N920120
16- <del>TE21267</del> B	PI21-2	CIRC BRG HOUSING TEMP	I13	MV109	9 2-782	NS	2		NONE		NONE
HS21268	PI21-2	CIRC 1D BRG HOUSING TEMP	I13	MV109	9 2				NONE		NONE
TE21268-1 F	PI21-2	CIRC 1D BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2746	N920120
TE21268-2	PI21-2	CIRC 1D BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2746	N920120
TE21268-3	PI21-2	CIRC 1D BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2746	N920120
TE21268-4	PI21-2	CIRC 1D BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2746	N920120
TE21268-5	PI21-2	CIRC 1D BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2746	N920120
TE21268-6	PI21-2	CIRC 1D BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2746	N920120
TE21268-7 F	PI21-2	CIRC 1D BRG HOUSING TEMP	PCR	NONE	9 14			NONE	CNT SENS	P2746	N920120



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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TE21268-8	PI21-2	CIRC 1D BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2746	N920120
TE21268-9	PI21-2	CIRC 1D BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2746	N920120
TE21268-10	PI21-2	CIRC 1D BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2746	N920120
TE21268-11	PI21-2	CIRC 1D BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2746	N920120
TE21268-12	PI21-2	CIRC 1D BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2746	N920120
TE21268-13	PI21-2	CIRC 1D BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2746	N920120
TE21268-14	PI21-2	CIRC 1D BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2746	N920120
TE21268-15	PI21-2	CIRC 1D BRG HOUSING TEMP	PCRV	NONE	9 34			NONE	CNT SENS	P2746	N920120
TR21269	PI21-2	CIRC BRG HOUSING TEMP	I13	MV108	93-78 2	NS	2		NONE		NONE
XTPP21269	PI21-2	CIRC BRG HOUSING TEMP	I13	MV109	5 2				NONE		NONE
TE21272-1	IC22-1	STEAM GEN GAS TEMP	B12	NONE	5 19		3127	NONE	CNT SENS	P2180	E1611
TE21272-2	IC22-1	STEAM GEN GAS TEMP	B12	NONE	5 19		3127	NONE	CNT SENS	P2180	E1611
TE21272-3	IC22-1	STEAM GEN GAS TEMP	B12	NONE	5 19		3127	NONE	CNT SENS	P2180	E1611
TE21272-4	IC22-1	STEAM GEN GAS TEMP	B12	NONE	5 19		3127	NONE	CNT SENS	P2180	E1611
TE21272-5	IC22-1	STEAM GEN GAS TEMP	B12	NONE	5 19		3127	NONE	CNT SENS	P2180	E1611
TE21272-6	IC22-1	STEAM GEN GAS TEMP	B12	NONE	5 19		3127	NONE	CNT SENS	P2180	E1611
TE21272-7	IC22-1	STEAM GEN GAS TEMP	B11	NONE	5 19		3127	NONE	CNT SENS	P2180	E1611
TE21272-8	IC22-1	STEAM GEN GAS TEMP	B11	NONE	5 19		3127	NONE	CNT SENS	P2180	E1611
TE21272-9	IC22-1	STEAM GEN GAS TEMP	B11	NONE	5 19		3127	NONE	CNT SENS	P2180	E1611

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TE21272-10	IC22-1	STEAM GEN GAS TEMP	B11	NONE	9 19		0127	NONE	CNT SENS	P2180	E1611
TE21272-11	IC22-1	STEAM GEN GAS TEMP	B11	NONE	9 19		0127	NONE	CNT SENS	P2181	E1611
TE21272-12	IC22-1	STEAM GEN GAS TEMP	B11	NONE	9 19		0127	NONE	CNT SENS	P2181	E1611
TE21272-13	IC22-1	STEAM GEN GAS TEMP	B13	NONE	9 19		0127	NONE	CNT SENS	P2181	E1611
TE21272-14	IC22-1	STEAM GEN GAS TEMP	B13	NONE	9 19		0127	NONE	CNT SENS	P2181	E1611
TE21272-15	IC22-1	STEAM GEN GAS TEMP	B13	NONE	9 19		0127	NONE	CNT SENS	P2181	E1611
TE21272-16	IC22-1	STEAM GEN GAS TEMP	B13	NONE	9 19		0127	NONE	CNT SENS	P2181	E1611
TE21272-17	IC22-1	STEAM GEN GAS TEMP	B13	NONE	9 19		0127	NONE	CNT SENS	P2181	E1611
TE21272-18	IC22-1	STEAM GEN GAS TEMP	B13	NONE	9 19		0127	NONE	CNT SENS	P2181	E1611
TE21272-19	IC22-1	STEAM GEN GAS TEMP	B14	NONE	9 19		0127	NONE	CNT SENS	P2183	E1611
TE21272-20	IC22-1	STEAM GEN GAS TEMP	B14	NONE	9 19		0127	NONE	CNT SENS	P2183	E1611
TE21272-21	IC22-1	STEAM GEN GAS TEMP	B14	NONE	9 19		0127	NONE	CNT SENS	P2183	E1611
TE21272-22	IC22-1	STEAM GEN GAS TEMP	B14	NONE	9 19		0127	NONE	CNT SENS	P2183	E1611
TE21272-23	IC22-1	STEAM GEN GAS TEMP	B14	NONE	9 19		0127	NONE	CNT SENS	P2183	E1611
TE21272-24	IC22-1	STEAM GEN GAS TEMP	B14	NONE	9 19		0127	NONE	CNT SENS	P2183	E1611
TE21272-25	IC22-1	STEAM GEN GAS TEMP	B15	NONE	9 19		0127	NONE	CNT SENS	P2183	E1611
TE21272-26	IC22-1	STEAM GEN GAS TEMP	B15	NONE	9 19		0127	NONE	CNT SENS	P2183	E1611
TE21272-27	IC22-1	STEAM GEN GAS TEMP	B15	NONE	9 19		0127	NONE	CNT SENS	P2184	E1611
TE21272-28	IC22-1	STEAM GEN GAS TEMP	B15	NONE	9 19		0127	NONE	CNT SENS	P2184	E1611
TE21272-29	IC22-1	STEAM GEN GAS TEMP	B15	NONE	9 19		0127	NONE	CNT SENS	P2184	E1611
TE21272-30	IC22-1	STEAM GEN GAS TEMP	B15	NONE	9 19		0127	NONE	CNT SENS	P2184	E1611

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TE21272-31	IC22-1	STEAM GEN GAS TEMP	B16	NONE	9 .9		J127	NONE	CNT SENS	P2184	E1611
TE21272-32	IC22-1	STEAM GEN GAS TEMP	B16	NONE	9 .9		D12	NONE	CNT SENS	P2184	E1611
TE21272-33	IC22-1	STEAM GEN GAS TEMP	B16	NONE	9 .9		D127	NONE	CNT SENS	P2184	E1611
TE21272-34	IC22-1	STEAM GEN GAS TEMP	B16	NONE	9 .9		O127	NONE	CNT SENS	P2184	E1611
TE21272-35	IC22-1	STEAM GEN GAS TEMP	B16	NONE	9 .9		O127	NONE	CNT SENS	P2184	E1611
TE21272-36	IC22-1	STEAM GEN GAS TEMP	B16	NONE	9 .9		C127	NONE	CNT SENS	P2184	E1611
TE21272-37	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		D127	NONE	CNT SENS	P2204	E1615
TE21272-38	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		O127	NONE	CNT SENS	P2204	E1615
TE21272-39	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		D127	NONE	CNT SENS	P2204	E1615
TE21272-40	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		D127	NONE	CNT SENS	P2204	E1615
TE21272-41	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		C127	NONE	CNT SENS	P2204	E1615
TE21272-42	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		O127	NONE	CNT SENS	P2204	E1615
TE21272-43	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		D127	NONE	CNT SENS	P2204	E1615
TE21272-44	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1615
TE21272-45	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1615
TE21272-46	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2205	E1615
TE21272-47	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2205	E1615
TE21272-48	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2205	E1615
TE21272-49	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9 .9		J127	NONE	CNT SENS	P2187	E1611
TE21272-50	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9 .9		J127	NONE	CNT SENS	P2187	E1611
TE21272-51	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9 .9		J127	NONE	CNT SENS	P2187	E1611

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INSTRUMENT NUMBER 01	PI OR C1 DWG D2	SERVICE D3	INST LOC ATION D4	INST DATA SHEET D5	PROCURE MENT SPEC D6	PNEU ELECT POWER SUPPLY D7	INST LOCATION DRAWING D8	ELEM SCHEME DRAWING D9	INST INSTALL DRAWING D10	CABLE TAB DRAWING D11	ELECT CONN DRAWING D12
TE21272-52	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9	19	J127	NONE	CNT SENS	P2187	E1611
TE21272-53	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9	19	J127	NONE	CNT SENS	P2187	E1611
TE21272-54	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9	19	J127	NONE	CNT SENS	P2187	E1611
TE21272-55	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	19	J127	NONE	CNT SENS	P2193	E1613
TE21272-56	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	9	J127	NONE	CNT SENS	P2193	E1613
TE21272-57	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	9	J127	NONE	CNT SENS	P2193	E1613
TE21272-58	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	9	J127	NONE	CNT SENS	P2193	E1613
TE21272-59	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	9	J127	NONE	CNT SENS	P2194	E1613
TE21272-60	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	9	J127	NONE	CNT SENS	P2194	E1613
TE21272-61	IC22-1	STEAM GEN GAS TEMP	B25	NONE	9	9	J127	NONE	CNT SENS	P2192	E1612
TE21272-62	IC22-1	STEAM GEN GAS TEMP	B25	NONE	9	9	J127	NONE	CNT SENS	P2192	E1612
TE21272-63	IC22-1	STEAM GEN GAS TEMP	B25	NONE	9	9	J127	NONE	CNT SENS	P2192	E1612
TE21272-64	IC22-1	STEAM GEN GAS TEMP	B25	NONE	9	19	J127	NONE	CNT SENS	P2192	E1612
TE21272-65	IC22-1	STEAM GEN GAS TEMP	B25	NONE	9	19	J127	NONE	CNT SENS	P2192	E1612
TE21272-66	IC22-1	STEAM GEN GAS TEMP	B25	NONE	9	19	J127	NONE	CNT SENS	P2192	E1612
TE21272-67	IC22-1	STEAM GEN GAS TEMP	B21	NONE	9	19	J127	NONE	CNT SENS	P2186	E1613
TE21272-68	IC22-1	STEAM GEN GAS TEMP	B21	NONE	9	19	J127	NONE	CNT SENS	P2186	E1613
TE21272-69	IC22-1	STEAM GEN GAS TEMP	B21	NONE	9	19	J127	NONE	CNT SENS	P2186	E1613
TE21272-70	IC22-1	STEAM GEN GAS TEMP	B21	NONE	9	19	J127	NONE	CNT SENS	P2186	E1613
TE21272-71	IC22-1	STEAM GEN GAS TEMP	B21	NONE	9	19	J127	NONE	CNT SENS	P2186	E1613
TE21272-72	IC22-1	STEAM GEN GAS TEMP	B21	NONE	9	19	J127	NONE	CNT SENS	P2186	E1613

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TE21272-73	F IC22-1	STEAM GEN GAS TEMP	B24	NONE	9 .9		J127	NONE	CNT SENS	P2191	E1612
TE21272-74	IC22-1	STEAM GEN GAS TEMP	B24	NONE	9 .9		J127	NONE	CNT SENS	P2191	E1612
TE21272-75	IC22-1	STEAM GEN GAS TEMP	B24	NONE	9 .9		J127	NONE	CNT SENS	P2191	E1612
TE21272-76	IC22-1	STEAM GEN GAS TEMP	B24	NONE	9 .9		J127	NONE	CNT SENS	P2191	E1612
TE21272-77	IC22-1	STEAM GEN GAS TEMP	B24	NONE	9 .9		J127	NONE	CNT SENS	P2191	E1612
TE21272-78	IC22-1	STEAM GEN GAS TEMP	B24	NONE	9 .9		J127	NONE	CNT SENS	P2191	E1612
-79 THRU -84	RESERVED FOR SPARE MODULE										
TE21272-85	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1614
TE21272-86	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1614
TE21272-87	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1614
TE21272-88	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1614
TE21272-89	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1614
TE21272-90	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1614
TE21272-91	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1614
TE21272-92	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1614
TE21272-93	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2204	E1614
TE21272-94	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2205	E1614
TE21272-95	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2205	E1614
TE21272-96	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2205	E1614
TE21272-97	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2205	E1614
TE21272-98	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2205	E1614
TE21272-99	F IC22-1	STEAM GEN GAS TEMP	B23	NONE	9 .9		J127	NONE	CNT SENS	P2205	E1614

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INSTRUMENT NUMBER G1	PI OR CI DWG D2	SERVICE D3	INST LOC ATION D4	INST DATA SHEET G5	PROCURE MENT SPEC D6	PNEU ELECT POWER SUPPLY D7	INST LOCATION DRAWING D8	ELEM SCHEME DRAWING D9	INST INSTALL DRAWING D10	CABLE TAB DRAWING D11	ELECT CONN DRAWING D12
TE21272-100	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2205	E1614
TE21272-101	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2205	E1614
TE21272-102	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2205	E1614
TE21272-103	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2205	E1614
TE21272-104	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2206	E1614
TE21272-105	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2206	E1614
TE21272-106	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2206	E1614
TE21272-107	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2206	E1614
TE21272-108	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2198	E1615
TE21272-109	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2198	E1615
TE21272-110	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2198	E1615
TE21272-111	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2198	E1615
TE21272-112	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2198	E1615
TE21272-113	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2198	E1615
TE21272-114	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2198	E1615
TE21272-115	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2198	E1615
TE21272-116	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2199	E1615
TE21272-117	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2199	E1615
TE21272-118	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2199	E1615
TE21272-119	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2199	E1615
TE21272-120	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	.9		0127 NONE	CNT SENS	P2199	E1615

FROM 21272 TO 2127

IL0200

LISTED BY SYSTEM 21

INSTRUMENT PI OR  
NUMBER CI DWG  
01 02

SERVICE  
03

STEAM GEN GAS TEMP

IC22-1

B23

INST DATA SHEET  
05 06

PROCUREMENT SPEC  
07 08

ELECT POWER SUPPLY  
09 10

LOCATION DRAWING  
11 12

ELEM SCHEME  
13 14

INSTALL DRAWING  
15 16

CABLE TAB DRAWING  
17 18

ELECT CONN DRAWING  
19 20

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO  
PNEU

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 23

TE21272-121	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-122	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-123	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-124	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-125	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-126	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-127	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-128	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-129	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-130	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-131	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19	0127 NONE	CNT SENS	P2203	E1614
TE21272-132	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9	19	0127 NONE	CNT SENS	P2187	E1613
TE21272-133	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9	19	0127 NONE	CNT SENS	P2187	E1611
TE21272-134	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9	19	0127 NONE	CNT SENS	P2188	E1611
TE21272-135	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9	19	0127 NONE	CNT SENS	P2188	E1611
TE21272-136	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9	19	0127 NONE	CNT SENS	P2188	E1611
TE21272-137	IC22-1	STEAM GEN GAS TEMP	B26	NONE	9	19	0127 NONE	CNT SENS	P2188	E1611
TE21272-138	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	19	0127 NONE	CNT SENS	P2194	E1613
TE21272-139	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	19	0127 NONE	CNT SENS	P2194	E1613
TE21272-140	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	19	0127 NONE	CNT SENS	P2194	E1613
TE21272-141	IC22-1	STEAM GEN GAS TEMP	B22	NONE	9	19	0127 NONE	CNT SENS	P2194	E1613

ILC20U

LISTED BY SYSTEM 21

INSTRUMENT  
NUMBER  
01

PI OR  
CI DWG  
02

SERVICE  
03

INST  
LOC  
ATION  
04

INST  
DATA  
SHEET  
05

PROCURE  
MENT  
SPEC  
06

ELECT  
POWER  
SUPPLY  
07

INST  
LOCATION  
DRAWING  
08

ELEM  
SCHEME  
DRAWING  
09

INST  
DRAWING  
10

CABLE  
TAB  
DRAWING  
11

ELECT  
CONN  
DRAWING  
12

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF  
COLORADO  
PACU

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 236

TE21272-142 F	IC22-1	STEAM	GEN	GAS	TEMP	B22	NONE	9	19	J127	NONE	CNT	SENS	P2194	E1613
TE21272-143	IC22-1	STEAM	GEN	GAS	TEMP	B22	NONE	9	19	J127	NONE	CNT	SENS	P2194	E1613
TE21272-144	IC22-1	STEAM	GEN	GAS	TEMP	B25	NONE	9	19	J127	NONE	CNT	SENS	P2193	E1612
TE21272-145	IC22-1	STEAM	GEN	GAS	TEMP	B25	NONE	9	19	J127	NONE	CNT	SENS	P2193	E1612
TE21272-146	IC22-1	STEAM	GEN	GAS	TEMP	B25	NONE	9	19	J127	NONE	CNT	SENS	P2193	E1612
TE21272-147	IC22-1	STEAM	GEN	GAS	TEMP	B25	NONE	9	19	J127	NONE	CNT	SENS	P2193	E1612
TE21272-148	IC22-1	STEAM	GEN	GAS	TEMP	B25	NONE	9	19	J127	NONE	CNT	SENS	P2193	E1612
TE21272-149	IC22-1	STEAM	GEN	GAS	TEMP	B25	NONE	9	19	J127	NONE	CNT	SENS	P2193	E1612
TE21272-150	IC22-1	STEAM	GEN	GAS	TEMP	B21	NONE	9	19	J127	NONE	CNT	SENS	P2186	E1613
TE21272-151	IC22-1	STEAM	GEN	GAS	TEMP	B21	NONE	9	19	J127	NONE	CNT	SENS	P2186	E1613
TE21272-152	IC22-1	STEAM	GEN	GAS	TEMP	B21	NONE	9	19	O127	NONE	CNT	SENS	P2186	E1613
TE21272-153	IC22-1	STEAM	GEN	GAS	TEMP	B21	NONE	9	19	O127	NONE	CNT	SENS	P2186	E1613
TE21272-154	IC22-1	STEAM	GEN	GAS	TEMP	B21	NONE	9	19	O127	NONE	CNT	SENS	P2187	E1613
TE21272-155	IC22-1	STEAM	GEN	GAS	TEMP	B21	NONE	9	19	O127	NONE	CNT	SENS	P2187	E1613
TE21272-156	IC22-1	STEAM	GEN	GAS	TEMP	B24	NONE	9	19	O127	NONE	CNT	SENS	P2191	E1612
TE21272-157	IC22-1	STEAM	GEN	GAS	TEMP	B24	NONE	9	19	O127	NONE	CNT	SENS	P2191	E1612
TE21272-158	IC22-1	STEAM	GEN	GAS	TEMP	B24	NONE	9	19	O127	NONE	CNT	SENS	P2191	E1612
TE21272-159	IC22-1	STEAM	GEN	GAS	TEMP	B24	NONE	9	19	O127	NONE	CNT	SENS	P2191	E1612
TE21272-160	IC22-1	STEAM	GEN	GAS	TEMP	B24	NONE	9	19	O127	NONE	CNT	SENS	P2192	E1612
TE21272-161	IC22-1	STEAM	GEN	GAS	TEMP	B24	NONE	9	19	O127	NONE	CNT	SENS	P2192	E1612
TE21272-162 F	IC22-1	STEAM	GEN	GAS	TEMP	B23	NONE	9	19	O127	NONE	CNT	SENS	P2199	E1615



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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 23

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	9	19	PNCU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TE21272-163	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2199	E1615
TE21272-164	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2199	E1615
TE21272-165	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2199	E1615
TE21272-166	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
TE21272-167	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
TE21272-168	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
TE21272-169	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
TE21272-170	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
TE21272-171	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
TE21272-172	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
TE21272-173	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
TE21272-174	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
TE21272-175	IC22-1	STEAM GEN GAS TEMP	B23	NONE	9	19			J127	NONE	CNT SENS	P2203	E1615
HV21277-1	PI21-6	EQUALIZATION LINE T-2110	LOCAL	21-1-19	9	1	NS, B		-205	P514	PI828A3	P2524	E1457
HV21277-2	PI21-6	EQUALIZATION LINE T-2110	LOCAL	21-1-19	9	1	NS, B		-205	P514	PI828A3	P2524	E1457
HV21277-3	PI21-6	EQUALIZATION LINE T-2110	LOCAL	21-1-20	9	1	NS, B		-205	P514	PI828A3	P2524	E1457
HV21277-4	PI22-3	EQUALIZATION LINE T-2110	LOCAL	21-1-28	9	1	NS, A		-205	P514	P182A2	P2524	E1457
HV21277-5	PI22-3	EQUALIZATION LINE T-2110	LOCAL	21-1-20	9	1	NS, A		-205	P514	P182A2	P2524	E1457
HV21277-6	PI22-6	EQUALIZATION LINE T-2110	LOCAL	21-1-20	9	1	NS, B		-205	P514	P182A2	P2519	E1452
HV21277-7	PI22-8	EQUALIZATION LINE T-2110	LOCAL	21-1-26	9	1	NS, B		-205	P514	P182A2	P2519	E1452

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INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 2

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE Q3	INST LOC ATION Q4	INST DATA SHEET Q5	PROCURE MENT SPEC Q6	PNEU ELECT POWER SUPPLY Q7	INST LOCATION DRAWING Q8	ELEM SCHEME DRAWING Q9	INST INSTALL DRAWING Q10	CABLE TAB DRAWING Q11	ELECT CONN DRAWING Q12
H521282	PI21-4	CHEMICAL INJECTION MOTOR	LOCAL	CS146	9	?		P502	NONE	P0034	E1122
14 PI21283 A	PI21-7	LOOP1 BRG WTR ACCUM	IO2	EI131	9/6/78	NS	-3	P1836	NONE	P2234	E1297
8 PT21283 A	PI21-7	LOOP1 BRG WTR ACCUM	LOCAL	TM146	9/6/78	NS	-3-3C4	P1836	130.10.4	P1648	E1712
PAL21283	PI21-7	LOOP 1 BRG WTR ACCUM	IO2	NONE	9	33		P2042	NONE	P1780	
PSL21283 B	PI21-7	LOOP 1 BRG WTR ACCUM	IO2	NONE	9	33	NS	3	P1836	NONE	P1780
14 PI21284 A	PI21-9	LOOP 2 BRG WTR ACCUM	IO2	EI131	9/6/78	NS	-3	P1836	NONE	P2232	E1712
8 PT21284 A	PI21-9	LOOP2 BRG WTR ACCUM	LOCAL	TM146	9/6/78	NS	-3-3C4	P1836	130.10.4	P1653	E1712
PAL21284	PI21-9	LOOP 2 BRG WTR ACCUM	IO2	NONE	9	33		P2052	NONE		
PSL21284 B	PI21-9	LOOP 2 BRG WTR ACCUM	IO2	NONE	9	33	NS	3	P1836	NONE	P1780
PI21285 C	PI21-7	LP1 ACCUM BRG WTR	IO2	NONE	9	?	SI				
PM21285-1 C	PI21-7	LP1 ACCUM BRG WTR	I29A	CR188	9/12/77	SI	-				
PM21285-2 C	PI21-7	LP1 ACCUM BRG WTR	I29A	CR188	9/12/77	SI	-				
PS21285 B	PI21-7	BRG WTR ACCUM L1 BKUP AIR	LOCAL	PS516	1-4-78	NS	-3-2C5	P2169	PI827	P0832	E1882
PT21285 C	PI21-7	LP1 ACCUM BRG WTR	LOCAL	NONE	9/12/77	SI	- C5		M134C		
PT21285-1 A	PI21-7	GAS PRESSURIZER 1A DP CTL	LOCAL	PI106	9/5/77	A	C5		M134C		E1709
PAL21285	PI21-7	BRG WTR L1 BACKUP AIR	I13	NONE	9/12/77	3	P2169	NONE			
PDC21285-1 C	PI21-7	CIRC A ACCUM BRG WTR	I29A	CR200	9/12/77	SI	-				
PDC21285-2 C	PI21-7	CIRC B ACCUM BRG WTR	I29A	CR200	9/12/77	SI	-				

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 239

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST ALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
<del>PI21285-1</del> C	PI21-9	CIRC C ACCUM BRG WTR	I02	NONE	9/12-77 2	SI	-				
<del>PI21285-2</del> C	PI21-8	CIRC D ACCUM BRG WTR	I02	NONE	9/12-77 2	SI	-				
<del>PI21285-3</del> C	PI21-7	LP 2 ACCUM BRG WTR	I02	NONE	9/12-77 2	SI	-				
PDM21285-1 C	PI21-7	CIRC A ACCUM BRG WTR	I29A	CR189	9/12-77 2	SI	-				
PDM21285-2 C	PI21-8	CIRC B ACCUM BRG WTR	I29A	CR189	9/12-77 2	SI	-				
<del>BDM21285-3</del> C	PI21-7	CIRC A ACCUM BRG WTR	I29A	CR192	9/12-77 2	SI	-				
<del>BDM21285-4</del> C	PI21-7	CIRC B ACCUM BRG WTR	I29A	CR192	9/12-77 2	SI	-				
<del>PDT21285-1</del> C	PI21-7	CIRC A ACCUM BRG WTR	I128	TM239	9/12-77 2	SI	-	-302		130.8.6	
<del>PDT21285-2</del> C	PI21-8	CIRC B ACCUM BRG WTR	I129	TM239	9/12-77 2	SI	-	-301		130.8.6	
<del>PDV21285-1</del> A	PI21-7	LOOP 1 BRG WTR ACCUM	LOCAL	CV132	9/12-77 2	1-SDA	-	-204		PI825A4	
<del>PDV21285-2</del> A	PI21-8	GAS PRESSURIZER 1A OUTLET	LOCAL	CV132	9/12-77 2	1-SDA	-	-205		PI825A4	
PSL21285-1 A	PI21-7	PURIF HE HDR REF	LOCAL	PS198	9/12-77 2	no-SD	C5	P607		P98	E1550
<del>XEP21285-1</del> C	PI82-5	CIRC A ACCUM BRG WTR	LOCAL	CV132	9/12-77 2	SI	-	-204		130.11.1	
<del>XEP21285-2</del> C	PI82-5	CIRC B ACCUM BRG WTR	LOCAL	CV132	9/12-77 2	SI	-	-204		130.11.1	
<del>XPS21285</del> C	PI21-7	LP1 ACCUM BRG WTR	I29A	CR194	9/12-77 2	SI	-			P1728	E1703
<del>XPS21285-1</del> C	PI21-7	CIRC A ACCUM BRG WTR	I29A	CR196	9/12-77 2	SI	-				
<del>XPS21285-2</del> C	PI21-8	CIRC B ACCUM BRG WTR	I29A	CR196	9/12-77 2	SI	-				
<del>PI21286</del> C	PI21-7	LP 2 ACCUM BRG WTR	I02	NONE	9/12-77 2	SI	-				
<del>PM21286-1</del> C	PI21-9	LP 2 ACCUM BRG WTR	I29B	CR188	9/12-77 2	SI	-				
<del>PM21286-2</del> C	PI21-9	LP 2 ACCUM BRG WTR	I29B	CR188	9/12-77 2	SI	-				

IL0200

LISTED BY SYSTEM 21

INSTRUMENT  
NUMBER  
G1

PI OR  
CI DWG  
DZ

SERVICE  
O3

INST  
LOC  
ATTN  
O4

INST  
DATA  
SHEET  
O5

PROCURE  
MENT  
SPEC  
O6

ELECT  
POWER  
SUPPLY  
O7

ELEM  
SCHEME  
DRAWING  
O9

INST  
LOCATION  
DRAWING  
O8

CABLE  
TAB  
DRAWING  
O11

ELECT  
CONN  
DRAWING  
O12

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF  
COLORADO  
PNEU

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 24

PS21286 B	PI82-7	BRG WTR ACCUM L2 BKUP AIR LOCAL	PS516	1 4-78	NS	-3 -2C4	P2171	PI827	P0832	E1909
PI21286 C	PI21-9	LP 2 ACCUM BRG WTR LOCAL	NONE	9/12-77?	SI	-	-	M134C		
PI21286-1 A	PI21-9	GAS PRESSURIZER 10 DP CTL LOCAL	PI106	9/2-77?	2-SDA	-	-	M134C		E1709
PAL21286	PI82-7	BRG WTR L2 BACKUP AIR	NONE	9	33	-	P2171	NONE		E1810
POC21286-1 C	PI21-9	CIRC C ACCUM BRG WTR I29B	CR200	9/12-77?	SI	-	-			
POC21286-2 C	PI21-9	CIRC D ACCUM BRG WTR I29B	CR200	9/12-77?	SI	-	-			
POI21286-1 D	PI21-9	CIRC C ACCUM BRG WTR I02	NONE	9/12-77?	SI	-	-			
POI21286-2 C	PI21-10	CIRC D ACCUM BRG WTR I02	NONE	9/12-77?	SI	-	-			
POI21286-3 C	PI21-9	LP 2 ACCUM BRG WTR I02	NONE	9/12-77?	SI	-	-			
POM21286-1 C	PI21-9	CIRC C ACCUM BRG WTR I29B	CR189	9/12-77?	SI	-	-			
POM21286-2 C	PI21-10	CIRC D ACCUM BRG WTR I29B	CR189	9/12-77?	SI	-	-			
POM21286-3 C	PI21-9	CIRC C ACCUM BRG WTR I29B	CR192	9/12-77?	SI	-	-			
POM21286-4 C	PI21-9	CIRC D ACCUM BRG WTR I29B	CR192	9/12-77?	SI	-	-			
POT21286-1 C	I-21-9	CIRC C ACCUM BRG WTR I135	TM239	9/12-77?	SI	-	-382	1308.6		
POT21286-2 C	I-21-10	CIRC D ACCUM BRG WTR I141	TM239	9/12-77?	SI	-	-J81	1308.6		
POV21286-1 A	PI21-9	'OOP 2 BRG WTR ACCUM LOCAL	CV132	9	2-SDA	-	-2D3	PI825A3		
POV21286-2 A	PI21-10	GAS PRESSURIZER 10 OUTLET LOCAL	CV132	9	2-SDA	-	-2D3	PI825A2		
XEP21286-1 C	PI02-5	CIRC C ACCUM BRG WTR LOCAL	CV132	9/12-77?	SI 3	-	-2C4	130.11.1		
XEP21286-2 C	PI82-5	CIRC D ACCUM BRG WTR LOCAL	CV132	9/12-77?	SI 3	-	-2C4	130.11.1		
XPS21286 C	PI21-9	LP 2 ACCUM BRG WTR I29B	CR191	9/12-77?	SI	-	-	PI728		E1703
XPS21286-1 C	I-21-9	CIRC C ACCUM BRG WTR I29B	CR196	9/12-77?	SI	-	-			

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 90-IL-6-7 ISSUE M  
 DATE 12-12-77 SHEET 24

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	OR SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CCAN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
- XPS21286-2 <i>C</i>	I-21-10	CIRC D ACCUM BRG WTR	I29B	CR196	9-0-77	SI	-				
LS21287 <i>A</i>	PI21-7	BRG WTR ACCUM 1A LEVEL	LOCAL	PS145	9-NC .2	1-SD	3	1-205 P2042	M250P	P0833	E1891
LAL21287	PI21-7	LOOP 1 BRG WTR ACCUM	I02	NONE	9- .3			P2042	NONE		
LS21288 <i>A</i>	PI21-9	BRG WTR ACCUM 1B LEVEL	LOCAL	PS145	9-NG .2	2-SD	3	-204 P2052	M250P	P834	E1892
LAL21288	PI21-9	LOOP 2 BRG WTR ACCUM	I02	NONE	9 .3			P2052	NONE		
- PDI21291 <i>B</i>	PI21-4	BRG WTR PUMP 1A	I02	EI148	9-5-78 2	NS	2	P1833	NONE	P2229	E1297
- PDT21291 <i>A</i>	PI21-4	BRG WTR PUMP 1A	I123	TM190	9-5-78 12	NS	2	-202 P1833	M231C2	P1689	E1535
- PDI21292 <i>B</i>	PI21-4	BRG WTR PUMP 1C	I02	EI148	9-5-78 2	NS	2	P1833	NONE	P1778	E1297
- PDT21292 <i>A</i>	PI21-4	BRG WTR PUMP 1C	LOCAL	TM190	9-5-78 12	NS	2	-2A4 P1833	130.8.6	P1658	E1772
- PDI21293 <i>B</i>	PI21-4	BRG WTR PUMP 1E	I02	EI148	9-5-78 2	NS	2	P1833	NONE	P2229	E1297
- PDT21293 <i>A</i>	PI21-4	BRG WTR PUMP 1E	I123	TM190	9-5-78 12	NS	2	-202 P1833	M231A2	P1689	E1535
- PDI21294 <i>B</i>	PI21-4	BRG WTR PUMP 1F	I02	EI148	9-5-78 2	NS	2	P1833	NONE		E1297
- PDT21294 <i>A</i>	PI21-4	BRG WTR PUMP 1F	LOCAL	TM190	9-5-78 12	NS	2	-2A4 P1833	130.8.6	P1650	E1708
- PDI21295 <i>B</i>	PI21-4	BRG WTR PUMP 1B	I02	EI148	9-5-78 2	NS	1 2	P1833	NONE		E1297

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LISTED BY SYSTEM 21

INSTRUMENT  
NUMBER  
C1

PI OR  
CI DWG  
C2

SERVICE  
D3

1B

INST  
LOC  
ATION  
C4

INST  
DATA  
SHEET  
C5

PROCURE  
MENT  
SPEC  
C6

ELECT  
POWER  
SUPPLY  
C7

INST  
LOCATION  
DRAWING  
C8

ELEM  
SCHEME  
DRAWING  
C9

CABLE  
TAB  
DRAWING  
C10

ELECT  
CONN  
DRAWING  
C11

INSTRUMENT LIST  
FORT ST VRAIN UNIT  
PUBLIC SERVICE COMPANY OF

GULF GENERAL ATOMIC  
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DATE 12-12-77 SHEET 2

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	1B	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING	
POT21295	A	BRG WTR PUMP	1B	1123	TH190	9-5-78-12	NS	-2C2	P1833	M231A4	P1778	E1535
PDI21296	B	BRG WTR PUMP	1D	102	EI148	9-5-78-2	NS		P1833	NONE	P1778	E1297
POT21296	A	BRG WTR PUMP	1D	LOCAL	TH190	9-5-78-12	NS	-2A4	P1833	130.8.6	P1650	E1772
FE21297		BRG WTR COOLER	1A/1B OUT	LOCAL	FE129	9	2	-2B5	NONE	M19602	NONE	NONE
FV21297	A	BRG WTR COOLER	1A/1B OUT	LOCAL	21-1-26	9	1	-2B6	PC920	PI822A1	P2664	E1500
FAL21297		BRG WTR COOLER	1A/1B OUT	102	NONE	9	53			NONE		
FSL21297	A	BRG WTR COOLER	1A/1B OUT	LOCAL	PS140	9-5-77	12	-2B5	PC920	130.8.6	P2664	E1500
FE21298		BRG WTR COOLER	1C/1D OUT	LOCAL	FE129	9	2	-2B4	NONE	M196E8	NONE	NONE
FV21298	A	BRG WTR COOLER	1C/1D OUT	LOCAL	21-1-26	9	1	-2B4	PO921	PI822A5	P2664	E1506
FAL21298		BRG WTR COOLER	1C/1D OUT	102	NONE	9	53			NONE	PO784	E1892
FSL21296	A	BRG WTR COOLER	1C/1D OUT	LOCAL	PS140	9-5-77	12	-2B4	PO921	130.8.6	P2664	E1506
PI21301	D	BRG WTR REMOVE PUMP	DIS	LOCAL	PS101	1-6-78	NS	310	NONE	130.10.3	NONE	NONE
PI21302	D	TURB WTR REMOVE PUMP	DIS	LOCAL	PS101	1-6-78	NS	45	NONE	130.10.3	NONE	NONE
LC21303	A	HP SEPARATOR	LEV CTL 1A	LOCAL	L1103	9-5-78-5	A-SD		NONE	PI822C6	NONE	NONE
LV21303	A	HP SEPARATOR	LVL CTL 1A	LOCAL	CV128	9-5-78-5	A-SD	-365	NONE	PI822C6	NONE	NONE

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INSTRUMENT LIST  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR C1 DWG D2	SERVICE D3	INST LOC ATION D4	INST DATA SHEET D5	PROCURE MENT SPEC D6	PNEU ELECT POWER SUPPLY D7	INST LOCATION DRAWING D8	ELEM SCHEME DRAWING D9	INST INSTALL DRAWING D10	CABLE TAB DRAWING D11	ELECT CONN DRAWING D12	
- LC21304 A	PI21-9	HP SEPARATOR	LEV CTL 1C	LOCAL	LI103	9-2-78	C-SD	3	5 NONE	PI822B2	NONE	NONE
- LV21304 A	PI21-9	HP SEPARATOR	LVL CTL 1C	LOCAL	CV128	9	C-SD	3	1 NONE	PI822B2	NONE	NONE
- LC21305 A	PI21-8	HP SEPARATOR	LEV CTL 1B	LOCAL	LI103	9-2-78	B-SD	3	5 NONE	PI822C5	NONE	NONE
- LV21305 A	PI21-8	HP SEPARATOR	LVL CTL 1B	LOCAL	CV128	9	B-SD	3	-3C6 NONE	PI822C5	NONE	NONE
- LC21306 A	PI21-10	HP SEPARATOR	LEV CTL 1D	LOCAL	LI103	9-2-78	D-SD	3	-3C5 NONE	PI822B2	NONE	NONE
- LV21306 A	PI21-10	HP SEPARATOR	LVL CTL 1D	LOCAL	CV128	9	D-SD	3	-3C4 NONE	PI822B2	NONE	NONE
HS21311	PI21-4	BRG WTR SURG TK 1A LP/SEP	ID2		CS135	9			P0449	NONE	P2629	E1290
HV21311	PI21-4	BRG WTR SURG TK 1A LP/SEP	LOCAL		21-1-29	9			-2B5 P449	PI822B6	P2629	E1804
HS21312	PI21-4	BRG WTR SURG TK 1B LP/SEP	ID2		CS135	9			P449	NONE	P2630	E1294
HV21312	PI21-4	BRG WTR SURG TK 1B LP/SEP	LOCAL		21-1-29	9			-2B5 P449	PI822A5	P2630	E1294
-5 PS21313 A	PI21-11	CIRC 1A BRAKE SYSTEM	LOCAL	PS133	1-6-78		NS	3	-1A5 P2028	M134C	P0817	E1883
PAL21313	PI21-11	CIRC BRAKE SYSTEM	ID1	NONE	9	53		3	P2028	NONE		
-5 PS21314 A	PI21-14	CIRC 1C BRAKE SYSTEM	LOCAL	PS133	1-6-78		NS	3	-1B4 P2028	M134C	P0917	E1883
-5 PS21315 A	PI21-11	CIRC 1B BRAKE SYSTEM	LOCAL	PS133	1-6-78		NS	3	-1D5 P2028	M134C	P0817	E1883

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INSTRUMENT LIST  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
-5 PS21316 A	PI21-14	CIRC 1D BRAKE SYSTEM	LOCAL	PS133	11-77 2	NS	3 -104	P2028	M134C	P0817	E1883
- PDIS21319 C	PI21-7	CIRC 1A STM TURB TRIP	I127	PS141	9-12-77 2	SI	- -3C2	NONE	130.8.6	P.2573	E1538
- XDIS21319 C	IB93-8	CIRC 1A STM TURB TRIP	I10	NONE	9-12-77 2	SI	-	P2104	NONE	P.2573	E1414
- PDIS21320 C	PI21-9	CIRC 1C STM TURB TRIP	I138	PS141	9-12-77 2	SI	- -3A2	NONE	130.8.6	P2565	E1538
- XDIS21320 C	IB93-8	CIRC 1C STM TURB TRIP	I10	NONE	9-12-77 2	SI	-	P2118	NONE	P2565	E1408
- PDIS21321 C	PI21-7	CIRC 1A STM TURB TRIP	I127	PS141	9-12-77 2	SI	- -3C2	NONE	130.8.6	P2573	E1538
- XDIS21321 C	IB93-8	CIRC 1A STM TURB TRIP	I10	NONE	9-12-77 2	SI	-	P2104	NONE	P2573	E1412
- PDIS21322 C	PI21-9	CIRC 1C STM TURB TRIP	I138	PS141	9-12-77 2	SI	- -3A2	NONE	130.8.6	P2561	E1538
- XDIS21322 C	IB93-8	CIRC 1C STM TURB TRIP	I10	NONE	9-12-77 2	SI	-	P2118	NONE	P2561	E1406
- PDIS21323 C	PI21-7	CIRC 1A STM TURB TRIP	I127	PS141	9-12-77 2	SI	- -3C2	NONE	130.8.6	P2577	E1538
- XDIS21323 C	IB93-8	CIRC 1A STM TURB TRIP	I10	NONE	9-12-77 2	SI	-	P2104	NONE	P2577	E1413
- PDIS21324 C	PI21-9	CIRC 1C STM TURB TRIP	I138	PS141	9-12-77 2	SI	- -3A2	NONE	130.8.6	P2564	E1538
- XDIS21324 C	IB93-8	CIRC 1C STM TURB TRIP	I10	NONE	9-12-77 2	SI	-	P2118	NONE	P2564	E1407
- PDIS21325 C	PI21-8	CIRC 1B STM TURB TRIP	I129	PS141	9-12-77 2	SI	- -3D1	NONE	130.8.6	P2574	E1538



ILG200

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC ATION	INST DATA SHEET	PROCURE MENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
- XDIS21325 C	IB93-8	CIRC 1B STM TURB TRIP	I10	NONE	9 1	SI	-	P2105	NONE	P2574	E1414
- PDIS21326 C	PI21-10	CIRC 1D STM TURB TRIP	I141	PS141	9 12-17-12	SI	- -3B1	NONE	130.8.6	P2565	E1538
- XDIS21326 C	IB93-8	CIRC 1D STM TURB TRIP	I10	NONE	9 1	SI	-	P2119	NONE	P2565	E1406
- PDIS21327 C	PI21-10	CIRC 1B STM TURB TRIP	I129	PS141	9 3-28-12	SI	- -3D1	NONE	130.8.6	P2574	E1538
- XDIS21327 C	IB93-8	CIRC 1D STM TURB TRIP	I10	NONE	9 1	SI	-	P2105	NONE	P2574	E1412
- PDIS21328 C	PI21-10	CIRC 1D STM TURB TRIP	I141	PS141	9 12-17-12	SI	- -3B1	NONE	130.8.6	P2561	E1538
- XDIS21328 C	IB93-8	CIRC 1D STM TURB TRIP	I10	NONE	9 1	SI	-	P2119	NONE	P2561	E1406
- PDIS21329 C	PI21-10	CIRC 1B STM TURB TRIP	I129	PS141	9 12-17-12	SI	- -3D1	NONE	130.8.6	P2577	E1538
- XDIS21329 C	IB93-8	CIRC 1B STM TURB TRIP	I10	NONE	9 1	SI	-	P2105	NONE	P2577	E1413
- PDIS21330 C	PI21-10	CIRC 1D STM TURB TRIP	I141	PS141	9 12-17-12	SI	- -3B1	NONE	130.8.6	P2564	E1538
- XDIS21330 C	IB93-8	CIRC 1D STM TURB TRIP	I10	NONE	9 1	SI	-	P2119	NONE	P2564	E1407
HS21331-C	PI21-4	BRG WTR MKUP PMP E-3 SEL	102	CS135	9 2			P12	NONE	342	E1293
HS21331-1	PI21-5	BACKUP BRG WTR FLTRS OUT	LOCAL	CS147	9 2		-3D3	P521	NONE	P345	E1046
HS21331-2	PI21-5	BACKUP BRG WTR FLTRS OUT	LOCAL	CS147	9 2		-3D3	P521	NONE	P345	E1046
HV21331-1	PI21-5	BACKUP BRG WTR FLTRS OUT	LOCAL	21-1-17	9 1		-3D3	P521	828P4	P345	E1046

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INSTRUMENT NUMBER G1	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
HV21331-2	PI21-5	BACKUP BRG WTR FLTRS OUT	LOCAL	21-1-24	9 1		-3D3	P521	828B4	P345	E1046
FE21332	PI21-6	BUF HE CMPR RECOVERY LINE	LOCAL	FE119	9 2	—	—	-3D4 NONE	H234A6	NONE	NONE
FI21332 D	PI21-6	BUF HE CMPR RECOVERY LINE	LOCAL	PS119	9-2-75 12	MS		NONE	EB	NONE	NONE
FE21333	PI21-4	BRG WTR MK UP PMP TO LPSP	LOCAL	FE130	9 2			-3D3 NONE	M195A3	NONE	NONE
FS21333 C	PI21-4	BRG WTR MK UP PMP TO LPSP	LOCAL	PS143	9-2-75 12	SI	3	-303 P521	828B4	P345	E1046
FV21333 A	PI21-4	BRG WTR MK UP PMP TO LPSP	LOCAL	21-1-35	9 1	NS	3	-303 P521	PI828B4	P345	E1046
HS21334	PI21-6	L P SEP TO HE DRYER VENT	IO2	CS135	9 2			P522	NONE	P2611	E1293
HV21334-1	PI21-6	L P SEP TO HE DRYER VENT	LOCAL	21-2-9	9 1			-2C5 P522	PI828A4	P2610	E1293
HV21334-2	PI21-6	L P SEP TO HE DRYER VENT	LOCAL	21-2-10	9 1			-2C5 P522	PI828A4	P2610	E1293
HV21335	PI21-7	CIRC 1A WTR TURB STM TRAP	LOCAL	21-2-36	9 1	A-SD,A		-2B5 P445	828A4	P2503	E1333
ZI21335	PI21-7	CIRC 1A WTR TURB STM TRAP	IO5	CS124	9 2			P445	NONE		
ZS21335	PI21-7	CIRC 1A WTR TURB STM TRAP	LOCAL	21-2-36	9 1			P445	NONE		
HV21336	PI21-9	CIRC 1C WTR TURB STM TRAP	LOCAL	21-2-36	9 1	C-SD,A		-2B4 P446	828A4	P2504	E1332
ZI21336	PI21-9	CIRC 1C WTR TURB STM TRAP	IO5	CS124	9 2			P446	NONE		E1325
ZS21336	PI21-9	CIRC 1C WTR TURB STM TRAP	LOCAL	21-2-36	9 1			P446	NONE		
HV21337	PI21-8	CIRC 1B WTR TURB STM TRAP	LOCAL	21-2-36	9 1	B-SD,B		-2C5 P447	828A4	P2504	E1330

FROM 21331 TO 21337

IL02CU

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG D1	SERVICE D2	INST LOC ATION D3	INST DATA SHEET D4	PROCURE MENT SPEC D5	ELECT PNEU POWER SUPPLY D6	INST LOCATION DRAWING D7	ELEM SCHEME DRAWING D8	INST INSTALL DRAWING D9	CABLE TAB DRAWING D10	ELECT CONN DRAWING D11
ZI21337	PI21-8	CIRC 1B	WTR TURB STM TRAP	I05	CS124 9	2		P447	NONE		
ZS21337	PI21-8	CIRC 1B	WTR TURB STM TRAP	LOCAL	21-2-36 9	1		P447	NONE		
HV21338	PI21-10	CIRC 1D	WTR TURB STM TRAP	LOCAL	21-2-36 9	1	D-SD	P448	828A4	P2504	E1332
ZI21338	PI21-10	CIRC 1D	WTR TURB STM TRAP	I05	CS124 9	2		P448	VELAN		
ZS21338	PI21-10	CIRC 1D	WTR TURB STM TRAP	LOCAL	21-2-36 9	1		P448	VELAN		
- PDC21339	B	PI21-7	CIRC 1A	WTR DRN TO LP SEP	I124	PI116 96-77	A-SD	2		EMANON	NONE
- PDI21339	B	PI21-7	CIRC 1A	WTR DRN TO LP SEP	I02	E1132 96-77	A-SD	2		NONE	P1729 E1707
- PDM21339	B	PI21-7	CIRC 1A	WTR DRN TO LP SEP	I126	PI124 96-77	A-SD	2		NONE	P1729 E1707
B PDT21339	A	PI21-7	CIRC 1A	WTR DRN TO LP SEP	I126	PI115 96-77	A-SD	2		M1336	
PDV21339		PI21-7	CIRC 1A	WTR DRN TO LP SEP	LOCAL	9		2 -105		PI82205	
- PDC21340	B	PI21-9	CIRC 1C	WTR DRN TO LP SEP	I136	PI116 96-77	C-SD	2 -382		EMANON	NONE
- PDI21340	B	PI21-9	CIRC 1C	WTR DRN TO LP SEP	I02	E1132 96-77	C-SD	2		NONE	P1729 E1707
- PDM21340	B	PI21-9	CIRC 1C	WTR DRN TO LP SEP	I137	PI124 96-77	C-SD	2 -3A2		NONE	P1729 E1707
B PDT21340	A	PI21-9	CIRC 1C	WTR DRN TO LP SEP	I137	PI115 96-77	C-SD	2 -3A2		M1336	NONE
PDV21340		PI21-9	CIRC 1C	WTR DRN TO LP SEP	LOCAL	9		2 -1B5		PI82203	
- PDC21341	B	PI21-8	CIRC 1B	WTR DRN TO LP SEP	I133	PI116 96-77	B-SD	2 -3B1		EMANON	NONE
- PDI21341	B	PI21-8	CIRC 1B	WTR DRN TO LP SEP	I02	E1132 96-77	B-SD	2		NONE	P1727 E1707

ILO200

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG D2	SERVICE O3	INST LOC ATION O4	INST DATA SHEET O5	PROCURE MENT SPEC O6	PNEU ELECT POWER SUPPLY O7	INST LOCATION DRAWING O8	ELEM SCHEME DRAWING O9	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
- PDM21341 B	PI21-8	CIRC 1B WTR DRN TO LP SEP	I132	PI124	9-6-77?	B-SD	2 -3C1		NONE	P1727	E1707
-B PDT21341 A	PI21-8	CIRC 1B WTR DRN TO LP SEP	I132	PI115	9-6-77?	B-SD	2 -3C1		M133G		NONE
POV21341	PI21-8	CIRC 1B WTR DRN TO LP SEP	LOCAL	CV133	9 3 1 1		-105		PI822D3		
- PDC21342 B	PI21-10	CIRC 1D WTR DRN TO LP SEP	I143	PI116	9-6-77?	D-SD	2 -3A1		EMANON		NONE
- PDI21342 B	PI21-10	CIRC 1D WTR DRN TO LP SEP	I02	EI132	9-6-77?	D-SD	2		NONE	P1729	E1707
- PDM21342 B	PI21-10	CIRC 1D WTR DRN TO LP SEP	I142	PI124	9-6-77?	D-SD	2 -3A1		NONE	P1729	E1707
-B PDT21342 A	PI21-10	CIRC 1D WTR DRN TO LP SEP	I142	PI115	9-6-77?	D-SD	2 -3A1		M133G		NONE
POV21342	PI21-10	CIRC 1D WTR DRN TO LP SEP	LOCAL	CV133	9 3 3		-104		PI822D3		
FE21343	PI21-7	LOOP 1 BRG WTR ACCUM	LOCAL	FE130	9 2		-2C4	NONE	M231E5	NONE	NONE
FAL21343	PI21-7	LOOP 1 BRG WTR ACCUM	IO2	NONE	9 53	SI?		P2042	NONE		
FIS21343 C	PI21-7	LOOP 1 BRG WTR ACCUM	LOCAL	PS119	9-10-77-12	SI	-2CA	P2042	130.8.6	P0833	E1890
FE21344	PI21-9	LOOP 2 BRG WTR ACCUM	LOCAL	FE130	9 2		-2C4	NONE	M210E8	NONE	NONE
FAL21344	PI21-9	LOOP 2 BRG WTR ACCUM	IO2	NONE	9 53	SI?			NONE	P834	E1892
FIS21344 C	PI21-9	LOOP 2 BRG WTR ACCUM	LOCAL	PS119	9-10-77-12	SI	-2C4	P2052	130.8.6		
- HV21345	PI21-3	HE DRYER BED 1A OUT	A2101X	NONE	2 1	NS	2H			PRITCH	
- HV21346	PI21-3	HE DRYER BED 1A IN	A2101X	NONE	2 1	NS	2H			PRITCH	

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INSTRUMENT LIST  
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90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 24

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC TION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	1	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
- HV21347	PI21-3	HE DRYER BED 1B OUT	A2102X	NONE	2	1	NS	CH		PRITCH		
- HV21348	PI21-3	HE DRYER BED 1B IN	A2102X	NONE	2	1	NS	CH		PRITCH		
- HV21349	PI21-3	HE DRYER BED 1A/1B OUT	A2101X	NONE	2	1	NS	CH		PRITCH		
- HV21350	PI21-3	HE DRYER BED 1A IN	A2101X	NONE	2	1	NS	CH		PRITCH		
- HV21351	PI21-3	HE DRYER BED 1A/1B OUT	A2102X	NONE	2	1	NS	CH		PRITCH		
- HV21352	PI21-3	HE DRYER BED 1B IN	A2102X	NONE	2	1	NS	CH		PRITCH		
- HV21353	PI21-3	HE DRY 1A TO REG COOLER	A2101X	NONE	2	.	NS	CH		PRITCH		
- HV21354	PI21-3	HE DRY 1B TO REG COOLER	A2102X	NONE	2	.	NS	CH		PRITCH		
- HV21355	PI21-3	HE DRYER INLET BYPASS	S2101	NONE	2	.	NS	CH		PRITCH		
5. PS21356 B	PI21-3	HE DRYER BED 1A OUT	A2101X	NONE	2	1/75	NS	2 CH		M134C		
5. PS21357 B	PI21-3	HE DRYER BED 1B OUT	A2102X	NONE	2	1/75	NS	4 CH		M134C		

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5 PS21358 A	PI21-3	HE DRYR FLTR 1B DIFF PRES	F2104X	NONE	2 NC 1	NS	2 CH		M134C	P633	E1121
5 PS21359 A	PI21-3	HE DRYR FLTR 1A DIFF PRES	F2104SX	NONE	2 NE 1	NS	2 CH		M134C	P633	E1121
5 PS21360 A	PI21-3	REGEN COOLER BYPASS LINE	S2101	NONE	2 4-78 1	NS	2 -204		NONE		
FCV21360 A	PI21-3	REGEN COOLER BYPASS LINE	S2101	NONE	2 1	NS	2 CH		PRITCH		
TC21361 B	PI21-3	REG COOL TEMP XTLER	S2101	NONE	2 NC 1	NS	2 CH	NONE	PRITCH	NONE	NONE
TW21361	PI21-3	REG COOL TEMP XTLER	S2101	NONE	2 1		CH	NONE	M134A	NONE	NONE
HS21362	PI21-3	HE DRY BED 1B RUP DISK	I13	CS130	9 2			P980	NONE		E1428
HV21362	PI21-3	HE DRY BED 1B RUP DISK	LOCAL	21-2-10	9 1	NS	-204	P980	828A3	P2595	E1428
5 PS21363 A	PI21-3	HE DRY BED 1B RUP DISK	LOCAL	PS106	1 7/78	NS	2 -304	P2144	M134C	P0830	E1907
PAH21363	PI21-3	HE DRY BED 1B RUP DISK	I13	NONE	9 33			P2144	NONE		
HS21364	PI21-3	HE DRY BED 1A RUP DISK	I13	CS130	9 2			P980	NONE		E1428
HV21364	PI21-3	HE DRY BED 1A RUP DISK	LOCAL	21-2-10	9 1	NS	09	P980	828A3	P2595	E1428
5 PS21365 A	PI21-3	HE DRY BED 1A RUP DISK	LOCAL	PS105	1 7/78	NS	2 -304	P2142	M134C	P0829	E1882
PAH21365	PI21-3	HE DRY BED 1A RUP DISK	I13	NONE	9 33			P2142	NONE		

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01	02		04	05	06	07	08	09	10	11	12
TW21367	PI21-12	BUF HE COOL 1A SER WTR	LOCAL	TI121	1			NONE	M134A	NONE	NONE
TAH21367	PI21-12	BUF HE COOL 1A SER WTR	I02	NONE	9 53			P2041	NONE		
IISH21367 B	PI21-12	BUF HE COOL 1A SER WTR	LOCAL	TI123	1 7/78	NS	2 -2B5	P2041	M231E9	P0833	E1891
TW21368	PI21-12	BUF HE COOL 1B SER WTR	LOCAL	TI121	1		9	NONE	M134A	NONE	NONE
TAH21368	PI21-12	BUF HE COOL 1B SER WTR	I02	NONE	9 7/78 53			P2051	NONE		
IISH21368 B	PI21-12	BUF HE COOL 1B SER WTR	LOCAL	TI123	1	NS	2 -2C5	P2051	NONE	P834	E1892
TW21369	PI21-12	BUF HE COOL 1AS SER WTR	LOCAL	TI121	1		18	NONE	M134A	NONE	NONE
TAH21369	PI21-12	BUF HE COOL 1AS SER WTR	I02	NONE	9 13			P2051	NONE		
TISH21369 B	PI21-12	BUF HE COOL 1AS SER WTR	LOCAL	TI123	1 7/78	NS	2 -2B4	P2041	NONE	P0833	E1891
TW21370	PI21-12	BUF HE COOL 1BS SER WTR	LOCAL	TI121	1		1	NONE	M134A	NONE	NONE
TAH21370	PI21-12	BUF HE COOL 1BS SER WTR	I02	NONE	9 13			P2051	NONE		
IISH21370 B	PI21-12	BUF HE COOL 1BS SER WTR	LOCAL	TI123	1 7/78	NS	2 -2C5	P2051	NONE	P834	E1892
IJ21371 D	PI21-12	BUF HE COOL 1A SER WTR	LOCAL	TW114	9.6.78.02	NS		NONE	NONE	NONE	NONE
TW21371	PI21-12	BUF HE COOL 1A SER WTR	LOCAL	TI121	1		2	NONE	M134A	NONE	NONE
IJ21372 D	PI21-12	BUF HE COOL 1B SER WTR	LOCAL	TI122	1	NS		NONE	NONE	NONE	NONE
TW21372	PI21-12	BUF HE COOL 1B SER WTR	LOCAL	TW114	9: 02		9	NONE	M134A	NONE	NONE

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D   TI21373	PI21-12	BUF HE COOL 1AS SER WTR	LOCAL	TI122	1-2-78	NS		NONE	NONE	NONE	NONE
TW21373	PI21-12	BUF HE COOL 1AS SER WTR	LOCAL	TW114	9 102		28	NONE	M134A	NONE	NONE
D   TI21374	PI21-12	BUF HE COOL 1BS SER WTR	LOCAL	TI122	1-2-78	NS		NONE	NONE	NONE	NONE
TW21374	PI21-12	BUF HE COOL 1BS SER WTR	LOCAL	TW114	9 102		1	NONE	M134A	NONE	NONE
D 7 PI21375	PI21-7	GAS PRESS N2 CHG BOTTLE	LOCAL	TM146	9-6-78	NS	283	NONE	FOXBORO	NONE	NONE
D 7 PI21376	PI21-9	GAS PRESS N2 CHG BOTTLE	LOCAL	TM146	9-6-78	NS	284	NONE	FOXBORO	NONE	NONE
FE21377	PI21-7	GUARD HE TO CIRC 1A	LOCAL	FE131	9 101	-	15	NONE	383145	NONE	NONE
FAH21377	PI21-7	GUARD HE TO CIRC 1A	I13	NONE	9 53	-	2	P2165	NONE		
B FIS21377 A	PI21-7	GUARD HE TO CIRC 1A	I132	PS162	9-4-78	12	2	-3C1 P2165	M134B	PO831	E1909
FE21378	PI21-9	GUARD HE TO CIRC 1C	LOCAL	FE131	9 101	-	12	NONE	383142	NONE	NONE
FAH21378	PI21-9	GUARD HE TO CIRC 1C	I13	NONE	9 53	-	2	P2166	NONE		
B FIS21378 A	PI21-9	GUARD HE TO CIRC 1C	I40	PS162	9-4-78	12	2	-3C4 P2166	M134B	PO831	E1909
FE21379	PI21-8	GUARD HE TO CIRC 1B	LOCAL	FE131	9 101	-	17	NONE	383147	NONE	NONE
FAH21379	PI21-8	GUARD HE TO CIRC 1B	I13	NONE	9 53	-	2	P2167	NONE		
B FIS21379 A	PI21-8	GUARD HE TO CIRC 1B	I132	PS162	9-4-78	12	2	-3C1 P2167	M134B	PO831	E1909



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01	02	03	04	05	06	07	08	09	10	11	12
FE21380	PI21-10	GUARD HE TO CIRC 10	LOCAL	FE131	9 .01	—	1 -2C4	NONE	383139	NONE	NONE
FAH21380	PI21-10	GUARD HE TO CIRC 10	(PI21-10)	NONE	9 .03	—	2	P2167	NONE		
B FIS21380 A	PI21-10	GUARD HE TO CIRC 10	PI21-10	PS162	9 11-12	NS	2 -3C4	P2167	M134B	P0831	E1909
L521385 B	PI21-6	HE RECOVER CMPR K/O PDT	LOCAL	PS161	1 116	RF	3 -2C4	P523	M250	P729	E1457
LV21385	PI21-6	HE RECOVER CMPR K/O PDT	LOCAL	21-1-41	9 1		-2C5	P523	PI828A3	P729	E1457
XTPP21386	PI21-2	PRI COOL SHAFT WOBBLER	I14	NONE	9 HE 5			NONE	NONE	NONE	NONE
D I121387	PI21-6	LP SEPARATOR INLET TEMP	LOCAL	NONE	1	NS		NONE	NONE	NONE	NONE
TW21387	PI21-6	LP SEPARATOR INLET TEMP	LOCAL	NONE	1		08	NONE	M134A	NONE	NONE
B PDI21389 B	PI21-7	CIRC 1A HE/WTR SEAL	I02	EI154	9 2	A-SD	3		NONE	P1642	E1297
B PDT21389 A	PI21-7	CIRC 1A HE/WTR SEAL	I127	TM203	9 12	A-SD	3		M134B	P1642	E1512
B PDI21390 B	PI21-9	CIRC 1C HE/WTR SEAL	I02	EI154	9 2	C-SD	3		NONE	P1642	E1297
B PDT21390 A	PI21-9	CIRC 1C HE/WTR SEAL	I-133	TM203	9 12	C-SD	3		M134B	P1642	E1512
B PDI21391 B	PI21-8	CIRC 1B HE/WTR SEAL	I02	EI154	9 712	B-SD	3		NONE	P1642	E1297
B PDT21391 A	PI21-8	CIRC 1B HE/WTR SEAL	I130	TM203	9 12	B-SD	3		M134B	P1642	E1512
B PDI21392 B	PI21-10	CIRC 1D HE/WTR SEAL	I02	EI154	9 2	D-SD	3		NONE	P1643	E1297

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B PDT21392 A	PI21-10	CIRC 10 HE/WTR SEAL	I141	TM203	9 1/2 2	D-50	3 -381		M1348	P1642	E1512
POAH21393 C	PI21-4	BACKUP MAKEUP BRG WTR PMP	I13	NONE	9 1/3			P2169	NONE	P0795	E1882
POIS21393 C	PI21-4	BACKUP MAKEUP BRG WTR PMP LOCAL	PS166		9 1/2 2	SI	-2C6	P0370	130.8.6	P2533	E1798
HS21394	PI21-4	BACKUP MAKEUP BRG WTR PMP IO2		NONE	9 1	1A		P0370	NONE	P0590	E1294
POAH21395	PI21-7	BRG WTR Y-STRAINER	I13	NONE	9 1/3			P2142	NONE		
POIS21395 A	PI21-7	DP ACROSS M21114	LOCAL	PS169	9 1/2 12	NS	2 -386	P2142	130.8.6	P0767	
POIS21396 A	PI21-8	DP ACROSS M21117	I-139	PS169	9 1/2 12	NS	2 -3A2	P2142	130.8.6	P0767	E1537
POIS21397 A	PI21-9	DP ACROSS M21110	I-131	PS169	9 1/2 12	NS	2 -3C1	P2142	130.8.6	P0767	E1536
POIS21398 A	PI21-10	DP ACROSS M21112	I140	PS169	9 1/2 12	NS	2 -381	P2142	130.8.6	P0767	E1537
POAH21399	PI21-4	B.W. MAKEUP FILTER	I13	NONE	9 1/3			P2142	NONE		
POIS21399 A	PI21-4	P2105 SUCTION STRAINER DP LOCAL	PS167		9 1/2 12	NS	2 -3D3	P2142	130.8.6	P0767	
B POIS21400 A	PI21-8	DP ACROSS M21116	LOCAL	PS170	9 1/2 12	NS	1 2 -1C6	P2144	130.8.6		E1870
POAH21401	PI21-7	BACKUP BW Y-STRAINER	I13	NONE	9 1/3			P2144	NONE		

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- PDIS21401 A	PI21-7	DP ACROSS STRATNER	M21115 LOCAL	PS170	9 12	NS	2 -186	P2144	130.8.6		E1810
- PDIS21402 A	PI21-10	DP ACROSS STRAINER	M21113 LOCAL	PS170	9 12	NS	2 -184	P2144	130.8.6		E1810
- PDIS21403 A	PI21-9	DP ACROSS STRAINER	M21111 LOCAL	PS170	9 12	NS	2 -184	P2144	130.8.6		E1810
PDI21411 C	PI21-7	CIRC A BRG WTR DIFF PRESS	102	NONE	9 NC 2	SI			NONE	P1719	E1540
- PDM21411 C	PI21-7	CIRC A BRG WTR DIFF PRESS	I29A	CR197	9 12	SI	-		NONE	P1719	E1540
- PDT21411 C	PI21-7	CIRC A BRG WTR DIFF PRESS	I-128	TM238	9 12	SI	- -302		130.8.6	P1718	E1517
XPS21411 C	NONE	CIRC A BRG WTR DIFF PRESS	I37	NONE	9 NC 2	SI			NONE	P1718	E1540
PDI21412 C	PI21-9	CIRC C BRG WTR DIFF PRESS	102	NONE	9 NC 2	SI			NONE	P1720	E1540
- PDM21412 C	PI21-9	CIRC C BRG WTR DIFF PRESS	I29B	CR197	9 12	SI	-		NONE	P1720	E1540
- PDT21412 C	PI21-9	CIRC C BRG WTR DIFF PRESS	I135	TM238	9 12	SI	- -302		130.8.6	P1720	E1518
XPS21412 C	NONE	CIRC C BRG WTR DIFF PRESS	I38	NONE	9 12	SI			NONE	P1720	E1540
PDI21413 C	PI21-8	CIRC B BRG WTR DIFF PRESS	102	NONE	9 NC 2	SI			NONE	P1720	E1540
- PDM21413 C	PI21-8	CIRC B BRG WTR DIFF PRESS	I29A	CR197	9 12	SI	-		NONE	P1719	E1540
- PDT21413 C	PI21-8	CIRC B BRG WTR DIFF PRESS	I129	TM238	9 12	SI	- -301		130.8.6	P1719	E1517
XPS21413 C	NONE	CIRC B BRG WTR DIFF PRESS	I37	NONE	9 NC 2	SI			NONE	P1719	E1540
PDI21414 C	PI21-10	CIRC D BRG WTR DIFF PRESS	102	NONE	9 NC 2	SI			NONE	P1721	E1540

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- PDM21414 C	PI21-10	CIRC D BRG WTR DIFF PRESS	I29B	CR197	9/1/77	SI	-		NONE	P1721	E1540
- PDT21414 C	PI21-10	CIRC D BRG WTR DIFF PRESS	I141	TM238	9/12/77	SI	- -3B1		130.8.6	P1721	E1518
XPS21414 C	NONE	CIRC D BRG WTR DIFF PRESS	I38	NONE	9/1/77	SI			NONE	P1721	E1540
--- HV21415-1	PI21-7	LP1 ACCUM GAS PRESS	LOCAL		9	1-SDA	-2C4	P553/554	PI825A5	P1724	
--- HV21415-2	PI21-7	LP1 ACCUM WTR PURGE BLK V	LOCAL		9	1-SDA	-2C4	P554	PI825A5	P1724,2	
ZS21415-1	PI21-7	LP1 ACCUM GAS PRESS VA	LOCAL		9	2		P553	NONE	P1724	
--- HV21416-1	PI21-9	LP2 ACCUM GAS PRESS VA	LOCAL		9	2-SD3	-2C4	M253E4	PI825A3	P1724	
--- HV21416-2	PI21-9	LP2 ACCUM WTR PURGE BLK V	LOCAL		9	2-SD3	-2D3	P554	PI825A3	P1724,2	
ZS21416-1	PI21-9	LP2 ACCUM GAS PRESS VA	LOCAL		9	2		P553		P1724	
--- HC21417 B	PI21-5	LP1 BACK-UP BRG WTR	I02	NONE	9/1/77	1-SD	3		NONE	P1722	E1540
PDC21417-1 B	PI21-5	LP1 BACK-UP BRG WTR	I29A	CR198	9/1/77	1-SD	- 3		NONE	P1722	E1540
PDC21417-2 B	PI21-5	LP1 BACK-UP BRG WTR	I29A	CR198	9/1/77	1-SD	- 3		NONE		
--- PDI21417 B	PI21-5	CIRC A BACK-UP BRG WTR	I02	NONE	9/1/77	1-SD	- 3		NONE	P1719	E1540
PDM21417-1 B	PI21-5	LP1 BACK-UP BRG WTR	I29A	CR190	9/1/77	1-SD	- 3		NONE		
PDM21417-2 B	PI21-5	LP1 BACK-UP BRG WTR	I29A	CR190	9/1/77	1-SD	- 3		NONE		
PDM21417-3 B	PI21-5	LP1 BACK-UP BRG WTR	I29A	CR193	9/1/77	1-SD	- 3		NONE		
PDM21417-4 B	PI21-5	LP1 BACK-UP BRG WTR	I29A	CR191	9/1/77	1-SD	- 3		NONE		
.B PDT21417 D	PI21-5	CIRC A BACK-UP BRG WTR	I128	NONE	9/1/77	1-SD	- 3-3C2		130.8.6	P.1719	E1540

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-6 XEP21417	B	PI82-2	LP1 BACK-UP BRG WTR	LOCAL	CV108A	9/6/77 2	1-SDA	3	-306	130.11.1	P1722	E1540	
- XPS21417	B	PI21-5	CIRC A BACK-UP BRG WTR	I29A	CR195	9/6/77 2	1-SD	3		NONE	P1719	E1540	
- HC21418	B	PI21-5	LP2 BACK-UP BRG WTR	I02	NONE	9/6/77 2	2-SD	3		NONE	P1722	E1540	
PDC21418-1	B	PI21-5	LP2 CK-UP BRG WTR	I29B	CR198	9/6/77 2	2-SD	1	3	NONE	P1722	E1540	
PDC21418-2	B	PI21-5	LP2 BACK-UP BRG WTR	I29B	CR198	9/6/77 2	2-SD	1	3	NONE			
- PDI21418	B	PI21-5	CIRC C BACK-UP BRG WTR	I02	NONE	9/5/77 2	2-SD	1	3	NONE	P1720	E1540	
PDM21418-1	B	PI21-5	LP2 BACK-UP BRG WTR	I29B	CR190	9/5/77 2	2-SD	1	3	NONE			
PDM21418-2	B	PI21-5	LP2 BACK-UP BRG WTR	I29B	CR190	9/5/77 2	2-SD	1	3	NONE			
PDM21418-3	B	PI21-5	LP2 BACK-UP BRG WTR	I29B	CR193	9/5/77 2	2-SD	1	3	NONE			
PDM21418-4	B	PI21-5	LP2 BACK-UP BRG WTR	I29B	CR191	9/5/77 2	2-SD	1	3	NONE		E1540	
B PDT21418 A	A	PI21-5	CIRC C BACK-UP BRG WTR	I135	NONE	9/6/77 2	2-SD	1	3	-382	130.8.6	P1720	E1540
-6 XEP21418	B	PI82-2	LP2 BACK-UP BRG WTR	LOCAL	CV108A	9/6/77 5	2-SD3	3	02	130.11.1	P1722	E1540	
- XPS21418	B	PI21-5	CIRC C BACK-UP BRG WTR	I29B	CR195	9/6/77 2	2-SD	3		NONE	P1720	E1540	
- PDI21419	B	PI21-5	CIRC B BACK-UP BRG WTR	I02	NONE	9/6/77 2	1-SD	1	2	NONE	P1720	E1540	
B PDT21419 A	A	PI21-5	CIRC B BACK-UP BRG WTR	I129	NONE	9/6/77 2	1-SD	1	2	-301	130.8.6	P1720	E1540
- XPS21419	B	PI21-5	CIRC E BACK-UP BRG WTR	I29A	CR195	9/6/77 2	1-SD	2		NONE	P1720	E1540	
- PDI21420	B	PI21-5	CIRC D BACK-UP BRG WTR	I02	NONE	9/6/77 2	2-SD	2		NONE	P1721	E1540	
B PDT21420 A	A	PI21-5	CIRC D BACK-UP BRG WTR	I141	NONE	9/6/77 2	2-SD	2	-381	130.8.6	P.1721	E1540	

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12	
- XPS21420	B	PI21-5	CIRC D BACK-UP DRG WTR	I29B	CR195	9-1-77 ?	2-SD	2	NONE	P1721	E1540	
FE21425		PI21-7	CIRC A HP SEPARATOR DRAIN LOCAL	FE132		9-1-77 ?	-	-	NONE	NONE	NONE	
- FI21425	B	PI21-7	HP SER FLOW 1A	I02	EI131	9-1-77 ?	A-SD	1	P1834	NONE	P1778	E1712
- FT21425	A	PI21-7	HP SER FLOW 1A	I126	FT107	9-1-77 ?	A-SD	1				E1713
FE21426		PI21-9	CIRC C HP SEPARATOR DRAIN LOCAL	FE132		9-1-77 ?	-	-39	NONE	NONE	NONE	NONE
- FI21426	B	PI21-9	HP SER FLOW 1C	I02	EI131	9-1-77 ?	C-SD	1	P1834	NONE	P2229	E1712
- FT21426	A	PI21-9	HP SER FLOW 1C	I137	FT107	9-1-77 ?	C-SD	1 -3A2				E1713
FE21427		PI21-8	CIRC B HP SEPARATOR DRAIN LOCAL	FE132		9-1-77 ?	-	-3C6	NONE	NONE	NONE	NONE
- FI21427	B	PI21-8	HP SER FLOW 1B	I02	EI131	9-1-77 ?	B-SD	1	P1835	NONE	P1778	E1712
- FT21427	A	PI21-8	HP SER FLOW 1B	LOCAL	FT107	9-1-77 ?	B-SD	1 -3C5				E1713
FE21428		PI21-10	CIRC D HP SEPARATOR DRAIN LOCAL	FE132		9-1-77 ?	-	-3C4	NONE	NONE	NONE	NONE
- FI21428	B	PI21-10	HP SER FLOW 1D	I02	EI131	9-6-77 ?	D-SD	1	P1835	NONE	P2229	E1712
- FT21428	A	PI21-10	HP SER FLOW 1D	LOCAL	FT107	9-1-77 ?	D-SD	1 -3C4				E1713
HS21429		PI21-13	LP SEPARATOR OUTLET	I02		9-1-77 ?			P522	NONE	PC996	E1294
HV21429		PI21-13	LP SEPARATOR OUTLET	LOCAL				-283	P522	PI62481	PC996	E1294
ZI21429		PI21-13	LP SEPARATOR OUTLET	I02		9-1-77 ?			P522	NONE	PC996	E1294

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INSTRUMENT  
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C1

INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO  
PNEU

GULF GENERAL ATOMIC  
90-11-6-7 ISSUE M  
DATE 12-12-77 SHEET 259

PI OR  
CI DWG SERVICE  
C2  
C3  
C4  
C5  
C6  
C7  
C8  
C9  
C10  
C11  
C12

INSTRUMENT NUMBER	DESCRIPTION	INST LOC	INST DATA	INST SHEET	PROCUREMENT SPEC	ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INSTALL TAB DRAWING	CABLE DRAWING	ELECT CONN DRAWING
ZS21429	PI21-13 LP SEPARATOR	LOCAL				07	C8	09	11	P0996	E1294
HV21430	PI21-13 N2 MANIFOLD BLOCK VALVE	LOCAL	21-1-41	9				P522	PI624B3	P0996	E1294
ZI21430	PI21-13 N2 MANIFOLD BLOCK VALVE	IO2	NONE	9				P522	NONE	P0996	E1294
ZS21430	PI21-13 N2 MANIFOLD BLOCK VALVE	LOCAL	21-1-41	9				P522	NONE	P0996	E1294
HS21431	PI21-13 N2 COMPRESSOR A INLET	IO2	NONE	9				P557	NONE	PC994	E1294
HV21431	PI21-13 N2 COMPRESSOR A INLET	LOCAL	21-1-41	9			-2B2	P557	PI624B2	PC994	E1503
ZI21431	PI21-13 N2 COMPRESSOR A INLET	IO2	NONE	9				P557	NONE	PC994	E1294
ZS21431	PI21-13 N2 COMPRESSOR A INLET	LOCAL					'4	P557	NONE	PC994	E1294
HS21432	PI21-13 N2 COMPRESSOR B INLET	IO2	NONE	9				P558	NONE	P995	E1293
HV21432	PI21-13 N2 COMPRESSOR B INLET	LOCAL	21-1-41	9			-2B2	P558	PI824B2	P995	E1506
ZI21432	PI21-13 N2 COMPRESSOR B INLET	IO2	NONE	9			'4	P558	NONE	P995	E1293
ZS21432	PI21-13 N2 COMPRESSOR B INLET	LOCAL	21-1-41	9			'4	P558	NONE	P995	E1506
FE21433	PI21-13 N2 COMPR A SEAL WTR	LOCAL	FE134	9	2		-2B3	NONE	NONE	NONE	NONE
FIS21433	PI21-13 N2 COMPR A SEAL WTR	LOCAL	PS174	9	7/78 12	NS	2	-2B3	130.8.2	P994	E1503
FE21434	PI21-13 N2 COMPR B SEAL WTR	LOCAL	FE134	9	2		-2B2	NONE	NONE	NONE	NONE
FIS21434	PI21-13 N2 COMPR B SEAL WTR	LOCAL	PS174	9	7/78 12	NS	2	-2B2	130.8.2	P995	E1506

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
TI21435	D	PI21-13 N2 COMPR A SEAL WTR	LOCAL	TW117	4 6-7-1	NS		NONE	M134A	NONE	NONE
TW21435		PI21-13 N2 COMPR A SEAL WTR	LOCAL	TI128	4 1			NONE	M134A	NONE	NONE
TI21436	D	PI21-13 N2 COMPR B SEAL WTR	LOCAL	TW117	4 1	NS		NONE	M134A	NONE	NONE
TW21436		PI21-13 N2 COMPR B SEAL WTR	LOCAL	TI128	4 1			NONE	M134A	NONE	NONE
XR021437		PI21-13 N2 COMPR A COOL WTR	LOCAL	NONE	4 1		-2A3	NONE	VENDOR	NONE	NONE
XR021438		PI21-13 N2 COMPR B COOL WTR	LOCAL	NONE	4 1		-2B2	NONE	VENDOR	NONE	NONE
XR021439		PI21-13 N2 PRESS SEPARATOR DRAIN	LOCAL	NONE	4 1		-2B2	NONE	VENDOR	NONE	NONE
LV21440		PI21-13 N2 PRESS SEPARATOR DRAIN	LOCAL	NONE	4 1		-2A3	P523	VENDOR		
LSH21440	B	PI21-13 N2 PRESS SEPARATOR DRAIN	T2120	NONE	4 7/78	RF	2	-2B2 P2101	M249V	P996	
LV21441	1	PI21-13 N2 COMPR WTR. MAKEUP	LOCAL	23-2-7	9 1			-2B3 P523			
LSL21441	B	PI21-13 N2 PRESS SEPARATOR	T2120	NONE	4 7/78	RF	2	-2B2 P2101	M249V	P996	
LAHL21441		PI21-13 N2 PRESS SEPARATOR	105	NONE	4 1			P2101	VENDOR	P996	
POC21442	B	PI21-13 N2 COMPR DIFF PRESS	I29B	CR187	9 1	NS	2		NONE		E1703
POI21442	B	PI21-13 N2 COMPR DIFF PRESS	I02	NONE	9 1	NS	2		NONE	P1727	E1703



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INSTRUMENT NUMBER	PI OR CI DWG O2	SERVICE O3	INST LOC ATION O4	INST DATA SHEET O5	PROCURE MENT SPEC O6	PNEU ELECT POWER SUPPLY O7	INST LOCATION DRAWING O8	ELEM SCHEME DRAWING O9	INST INSTALL DRAWING O10	CABLE TAB DRAWING O11	ELECT CONN DRAWING O12
<del>ROM</del> 21442	B	PI21-13 N2 COMPR DIFF PRESS	I29B	CR199	9 5 12	NS	2		NONE		E1703
<del>PDT</del> 21442	B	PI21-13 N2 COMPR DIFF PRESS	LOCAL	NONE	9 5 12	NS	2 -2B2		13C.8.6	P1728	E1703
<del>PDV</del> 21442	B	PI21-13 N2 COMPR DIFF PRESS	LOCAL	CV142	9 5 12	NS	2 -2B2		PI824B5		
19 <del>XEP</del> 21442	B	PI82-4 N2 COMPR DIFF PRESS	LOCAL	CV142	9 5 12	NS	4		130.11.1	P1728	E1703
<del>XPS</del> 21442	B	PI21-13 N2 COMPR DIFF PRESS	I29B	CR194	9 5 12	NS			NONE		E1703
<del>PC</del> 21443	B	PI21-13 N2 COMPR INLET	I29B	CR187	9 5 12	NS	2		NONE		E1703
<del>PI</del> 21443	B	PI21-13 N2 COMPR INLET	I02	NONE	9 5 12	NS	2		NONE	P1727	E1703
<del>PM</del> 21443	B	PI21-13 N2 COMPR INLET	I29B	CR199	9 5 12	NS	2		NONE		E1703
<del>PT</del> 21443	B	PI21-13 N2 COMPR INLET	LOCAL	TH209	9 5 12	NS	2 -304		130.10.4	P1728	E1703
<del>PV</del> 21443	B	PI21-13 N2 COMPR INLET	LOCAL	CV142	9 5 12	NS	2 -2C2		NONE		
19 <del>XEP</del> 21443	B	PI82-4 N2 COMPR INLET	LOCAL	CV142	9 5 12	NS	2 5		PI824B5	P1728	E1703
<del>XPS</del> 21443	B	PI21-13 N2 COMPR INLET	I29B	CR194	9 5 12	NS	2		NONE		E1703
TI21444	D	PI21-13 N2 COMPR DISCHARGE	LOCAL	TI128	4 3 3	NS		NONE	M134A	NONE	NONE
TW21444		PI21-13 N2 COMPR DISCHARGE	LOCAL	TW117	4 3 3			NONE	M134A	NONE	NONE
FE21445		PI21-13 N2 COMPR DISCHARGE	LOCAL		9 5 12		1 -2A3	NONE	VENDOR	NONE	NONE
<del>FI</del> 21445	B	PI21-13 N2 COMPR DISCHARGE	I02	NONE	9 5 12	NS	2		NONE	P1727	E1703
<del>FT</del> 21445	B	PI21-13 N2 COMPR DISCHARGE	LOCAL		9 5 12	NS	2 -2A3		130.8.6	P1727	E1703
<del>HC</del> 21446	B	PI21-13 SEPARATOR N2 SUPPLY	I02	NONE	9 5 12	NS	2 3		NONE		E1540

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG O2	SERVICE O3	INST LOC O4	INST DATA SHEET O5	PROCURE MENT SPEC O6	PNEU ELECT POWER SUPPLY O7	INST LOCATION DRAWING O8	ELEM SCHEME DRAWING O9	INST INSTALL DRAWING 10	CABLE TAG DRAWING 11	ELECT CONN DRAWING 12
<del>BDM</del> 21442	B	PI21-13 N2 COMPR	DIFF PRESS	I29B	CR199	9-5751	NS	2	NONE		E1703
<del>PDT</del> 21442	B	PI21-13 N2 COMPR	DIFF PRESS	LOCAL	NONE	9-57512	NS	2 -2B2	130.8.6	P1728	E1703
<del>PDV</del> 21442	B	PI21-13 N2 COMPR	DIFF PRESS	LOCAL	CV142	9-5751	NS	2 -2B2	PI82485		
19 <del>XEP</del> 21442	B	PI82-4 N2 COMPR	DIFF PRESS	LOCAL	CV142	9-5751	NS	4	130.11.1	P1728	E1703
<del>XPS</del> 21442	B	PI21-13 N2 COMPR	DIFF PRESS	I29B	CR194	9-5751	NS		NONE		E1703
<del>PC</del> 21443	B	PI21-13 N2 COMPR	INLET	I29B	CR187	9-5751	NS	2	NONE		E1703
<del>PI</del> 21443	B	PI21-13 N2 COMPR	INLET	I02	NONE	9-5751	NS	2	NONE	P1727	E1703
<del>PM</del> 21443	B	PI21-13 N2 COMPR	INLET	I29B	CR199	9-5751	NS	2	NONE		E1703
<del>PT</del> 21443	B	PI21-13 N2 COMPR	INLET	LOCAL	TH209	9-5751	NS	2 -3D4	130.10.4	P1728	E1703
<del>PV</del> 21443	B	PI21-13 N2 COMPR	INLET	LOCAL	CV142	9-5751	NS	2 -2C2	NONE		
19 <del>XEP</del> 21443	B	PI82-4 N2 COMPR	INLET	LOCAL	CV142	9-5751	NS	2 =5	PI82485	P1728	E1703
<del>XPS</del> 21443	B	PI21-13 N2 COMPR	INLET	I29B	CR194	9-5751	NS	2	NONE		E1703
TI21444	D	PI21-13 N2 COMPR	DISCHARGE	LOCAL	TI128	4-5753	NS		NONE	M134A	NONE
TW21444		PI21-13 N2 COMPR	DISCHARGE	LOCAL	TW117	4-5753			NONE	M134A	NONE
FE21445		PI21-13 N2 COMPR	DISCHARGE	LOCAL		9-5752		1 -2A3	NONE	VENDOR	NONE
<del>FI</del> 21445	B	PI21-13 N2 COMPR	DISCHARGE	I02	NONE	9-5752	NS	2	NONE	P1727	E1703
<del>FT</del> 21445	B	PI21-13 N2 COMPR	DISCHARGE	LOCAL		9-5752	NS	2 -2A3	130.8.6	P1727	E1703
<del>HC</del> 21446	B	PI21-13	SEPARATOR N2 SUPPLY	I02	NONE	9-5752	NS	2,3	NONE		E1540

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LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG Q2	SERVICE Q3	INST LOC Q4	INST DATA SHEET Q5	PROCURE MENT SPEC Q6	PNEU ELECT POWER SUPPLY Q7	INST LOCATION DRAWING Q8	ELEM SCHEME DRAWING Q9	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
PC21446	B	PI21-13	TURBINE WTR DRN TNK	I29B	CR187	9/1/77	NS	2	NONE		E1703
PI21446	B	PI21-13	TURBINE WTR DRN TNK	I03	NONE	9/1/77	NS	2	NONE		
PM21446	B	PI21-13	TURBINE WTR DRN TNK	I29B	CR199	9/1/77	NS	2	NONE		
PT21446	B	PI21-13	TURBINE WTR DRN TNK	LOCAL		9/1/77	NS	2 -2C4	130.10.4	P1727	E1703
PV21446	B	PI21-13	TURBINE WTR DRN TNK	LOCAL	CV142	9/1/77	NS	2 C2		PI824B2	
PCV21446		PI21-13	TURBINE WTR DRN TNK	LOCAL	NONE			2 F4	NONE	NONE	NONE
XEP21446	B	PI82-4	TURBINE WTR DRN TNK	LOCAL	CV142	9/1/77	NS	2 C2	130.11.1	P1728	E1703
XPS21446	B	PI21-13	TURBINE WTR DRN TNK	I29B	CR193	9/1/77	NS	2	NONE	P1727	E1703
BDSH21446	B	PI21-13	TURBINE WTR DRN TNK	I29B	NONE	9/1/77	NS	2	NONE		E1703
PI21447	B	PI21-13	DE-AIREATOR PRESSURE	I02	NONE	9/1/77	NS	2	NONE		
PI21447	B	PI21-13	DE-AIREATOR PRESSURE	I03	NONE	9/1/77	NS	2 A3	130.10.4		
XPS21447	B	PI21-13	DE-AIREATOR PRESSURE	I29B	CR193	9/1/77	NS	2	NONE		
POAH21449		PI21-13	N2 SEP TO TWOT STRAINER	I05	NONE	9/1/77			P2100	NONE	PO996 E1696
PDIS21449	B	PI21-13	N2 SEP TO TWOT STRAINER	LOCAL	PS174	9/1/77	NS	2 -2A3	P2100	130.10.4	PO996 E1293
PAL21450		PI21-13	N2 HEADER PRESSURE	I05	NONE	9/1/77			P2116	NONE	PO996 E1897
PSL21450	B	PI21-13	N2 HEADER PRESSURE	LOCAL	PS177	4/1/77	NS	2 -305	P2116	130.10.3	PO996 E1804
LSH21451	B	PI21-3	HE DRYER K/O POT WTR	LOCAL	PS171	NONE	RF	-203	PO928	GG6	P2644 E1801

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GULF GENERAL ATOMIC  
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LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC C6	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
LSV21451	PI21-3	HE DRYER K/O POT WTR	LOCAL	SV102			-2C4	PO928	NONE	P2644	E1801
LSH21452 <i>B</i>	PI21-6	HE RCVRY CMPR C-2107 K/O	LOCAL	PS171	<i>NE</i>	<i>RF</i>	-2D4	PO929	GGA	P2644	E1801
LSV21452	PI21-6	HE RCVRY CMPR C-2107 K/O	LOCAL	SV102			-2D4	PO929	NONE	P2644	E1801
LSH21453 <i>B</i>	PI21-6	HE RCVRY CMPR C-21075 K/O	LOCAL	PS171	<i>NG</i>	<i>RF</i>	-2D4	PO930	GGA	P2644	E1801
LSV21453	PI21-6	HE RCVRY CMPR C-21075 K/O	LOCAL	SV102			-2D4	PO930	NONE	P2644	E1801
<i>7</i> PI21458 <i>D</i>	PI21-13	N2 STORAGE NO. 1	LOCAL	PS175		<i>NS</i>			NONE	130.10.3	NONE
<i>7</i> PI21459 <i>D</i>	PI21-13	N2 STORAGE NO. 2	LOCAL	PS175		<i>NS</i>			NONE	130.10.3	NONE
<i>7</i> PI21460 <i>D</i>	PI21-13	N2 STORAGE NO. 3	LOCAL	PS175		<i>NS</i>			NONE	130.10.3	NONE
<i>7</i> PI21461 <i>D</i>	PI21-13	N2 STORAGE NO. 4	LOCAL	PS175		<i>NS</i>			NONE	130.10.3	NONE
LG21462	PI21-13	N2 PRESS SEPARATOR	T2120	NONE	.0		V		NONE	M249V	NONE
<i>7</i> PI21463 <i>D</i>	PI21-13	N2 COMPR DP VLV INLET	LOCAL	PS175		<i>NS</i>			NONE	130.10.3	NONE
<i>7</i> PI21464 <i>D</i>	PI21-13	N2 SEP DISCHRG VLV BYPASS	LOCAL	PS175		<i>NS</i>			NONE	130.10.3	NONE

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INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
7 PI21465 D	PI21-13	N2 STORAGE TO TWOT	LOCAL	PS175		NS		NONE	130.10.3	NONE	NONE
7 PI21467 D	PI21-13	TWOT N2 BLANKET	LOCAL	NONE		NS	2	NONE	NONE	NONE	NONE
7 PI21470 D	PI21-4	DISCHARGE PRESSURE P-2108	LOCAL	NONE		NS	2 14	NONE	130.10.4		NONE
HV21471	PI21-13	N2 COMPR A SEAL WTR	LOCAL		-1			P559	PI824		E1503
ZI21471	PI21-13	N2 COMPR A SEAL WTR	I02	NONE	-2			P559	NONE		E1294
ZS21471	PI21-13	N2 COMPR A SEAL WTR	LOCAL		-1			P559	NONE		E1294
HV21472	PI21-13	N2 COMPR B SEAL WTR	LOCAL		-1		-282	P559	PI824		E1506
ZI21472	PI21-13	N2 COMPR B SEAL WTR	I02	NONE	-2			P559	NONE		E1293
ZS21472	PI21-13	N2 COMPR B SEAL WTR	LOCAL		-1			P559	NONE		E1293
10 PCV21473 B	PI21-13	TURBINE WTR DRN TNK	LOCAL		-5	INS	2 12	NONE	NONE	NONE	NONE
LI21474	PI21-3	RECIRC CONT TANK 1C LEVEL I02			-2	1	3	P504	NONE		E1471
LI21474 A	PI21-3	RECIRC CONT TANK 1C LEVEL LOCAL	PS185		-12	INS	3	-205 P504	M250B		E1471
LI21475	PI21-3	RECIRC CONT TANK 1A LEVEL I02			-2		3	P503	NONE		E1459
LI21475 A	PI21-3	RECIRC CONT TANK 1A LEVEL LOCAL	PS185		-12	NS	3	-206 P503	M250		E1459

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INSTRUMENT NUMBER	PI OR CI DWG Q1	OR DWG Q2	SERVICE Q3	INST LOC ATION Q4	INST DATA SHEET Q5	PROCURE MENT SPEC Q6	PNEU ELECT POWER SUPPLY Q7	INST LOCATION DRAWING Q8	ELEM SCHEME DRAWING Q9	INST INSTALL DRAWING Q10	CABLE TAB DRAWING Q11	ELECT CONN DRAWING Q12	
LI21476	PI21-3		RECIRC CONT TANK 1D LEVEL	IO2		9 ?		2	P504	NONE		E1459	
<i>B</i> LIS21476 A	PI21-3		RECIRC CONT TANK 1D LEVEL LOCAL		PS185	9-11-12	NS	3	-2C5 P504	M250		E1459	
LI21477	PI21-3		RECIRC CONT TANK 1B LEVEL	IO2		9 ?		2	P503	NONE		E1471	
<i>B</i> LIS21477 A	PI21-3		RECIRC CONT TANK 1B LEVEL LOCAL		PS185	9-11-12	NS	2	-2D6 P503	M250		E1471	
<i>+</i> HSV21479-1	PI21-6		TWDY VENT TO LP SEP	LOCAL	NONE	6 JCK			Q4 P522	PI824		E1804	
<i>+</i> PDC21479 <i>B</i>	PI21-6		PELTON CAVITY PRESSURE	IO2	CR180	9-11-12	NS	2	P1838A	NONE	P1808	E1267	
<i>+</i> PDT21479 <i>B</i>	PI21-6		PELTON CAVITY PRESSURE	LOCAL	TM213	9-11-12	NS	2	-2C4 P1838A	M1336	P1808	E1710	
FDV21479-1	PI21-6		PELTON CAVITY PRESSURE	LOCAL	NONE	9 1	NS 3		-3D4 P1838A	PI824	NONE	E1710	
PDV21479-2	PI21-6		PELTON CAVITY PRESSURE	LOCAL	NONE	9 1	NS 3	2	-2C4 P1838A	PI822	NONE	E1710	
XCP-21479-1 <i>B</i>						5-11	NS						
PM21484	PI21-13		LP SEPARATOR PRESS SET	I29B	CR185	9-11-12	NS	3	NONE	E1703	NONE	E1703	
PV21484	PI21-6		LOW PRESS SEPARATOR	LOCAL	21-1-13	9 1	NS		-3D5			E1703	
<i>13</i> PSH21484-1 <i>B</i>	PI21-13		LP SEPARATOR VENT	I29B	BT169	9-11-12	NS	2	3	NONE	E1703	NONE	E1703
<i>13</i> PSH21484-2 <i>B</i>	PI21-13		LP SEPARATOR PRESS SELECT	I29B	BT169	9-11-12	NS	2	3	NONE	E1703	NONE	E1703
<i>13</i> PDSH21484 <i>B</i>	PI21-13		LOW PRESS SEPARATOR	I29B	NONE	9-11-12	NS	2				E1703	
<i>9</i> PI21487-1 <i>B</i>	PI21-11		CIRC 1A BRAKE SYS	LOCAL	NONE	N 12-76	NS	2	NONE	NONE	NONE	NONE	
<i>B</i> PI21487-2 <i>B</i>	PI21-11		CIRC 1B BRAKE SYS	LOCAL	NONE	N 12-76	NS	2	NONE	NONE	NONE	NONE	
<i>B</i> PI21487-3 <i>B</i>	PI21-14		CIRC 1C BRAKE SYS	LOCAL	NONE	N 12-76	NS	2	NONE	NONE	NONE	NONE	

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INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
 9G-IL-6-7 ISSUE H  
 DATE 12-12-7 SHEET 2

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	E CH SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
B7-PI21487-4	PI21-14	CIRC 1D BRAKE SYS	LOCAL	NONE	12-76	NS	2	NONE	NONE	NONE	NONE
B-PI21487-5	PI21-11	CIRC 1A BRAKE SYS	LOCAL	NONE	7/78	NS	2	NONE	NONE	NONE	NONE
B-PI21487-6	PI21-11	CIRC 1B BRAKE SYS	LOCAL	NONE	7-8	NS	2	NONE	NONE	NONE	NONE
B-PI21487-7	PI21-14	CIRC 1C BRAKE SYS	LOCAL	NONE	7/78	NS	2	NONE	NONE	NONE	NONE
B9-PI21487-8	PI21-14	CIRC 1D BRAKE SYS	LOCAL	NONE	7/78	NS	2	NONE	NONE	NONE	NONE
D7-PI21488-D	PI21-9	BEARING WTR ACCUM LP2	LOCAL	PI131	7/78	NS	4	NONE	NONE	NONE	NONE
D7-PI21489-D	PI21-7	BEARING WTR ACCUM LP1	LOCAL	PI131	7/78	NS	3	NONE	NONE	NONE	NONE
LG21490	PI21-12	WATER	LOCAL	NONE				NONE	NONE	NONE	NONE
LG21491	PI21-12	WATER	LOCAL	NONE				NONE	NONE	NONE	NONE
LG21492	PI21-12	WATER	LOCAL	NONE				NONE	NONE	NONE	NONE
LG21493	PI21-12	WATER	LOCAL	NONE				NONE	NONE	NONE	NONE
LAH21494	PI21-9	PELTONDRAINLEVELHIGH	105	NONE	-63			P2130	NONE		E1884
LIS21494 B	PI21-9	CIRC1PELTONDRAINLEVEL	LOCAL	PS192	3-78-12	C-50	3	P2130	MF130.8.		E1812
LIS21495 B	PI21-7	CIRC1APELTONDRAINLEVEL	I123	PS192	3-78-12	A-50	3	P2130	MF130.8.		E1812

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MFNT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
LIS21496	B	PI21-10	CIRC10PELTONDRAINLEVEL	LOCAL	PS192	9-3-7842	D-SD	3	P2130	MF130.8.	E1812
LIS21497	B	PI21-8	CIRC16PELTONDRAINLEVEL	LOCAL	PS192	9-3-7812	B-SD	3	P2130	MF130.8.	E1812
LG21498-1	A	P1-21-9	1C BUFF HE INSTR DRN LVL	LOCAL	LI108	1			NONE	NONE	NONE
LG21498-2	A	P1-21-9	1C BUFF HE INSTR DRN LVL	LOCAL	LI108	1			NONE	NONE	NONE
B-LS21498-1	A	P1-21-9	1C BUFF HE INSTR DRN POT	LOCAL	PS195	12-77	C-SD	2	P2166	NONE	E1812
B-LS21498-2	A	P1-21-9	1C BUFF HE INSTR DRN POT	LOCAL	PS195	12-77	C-SD	2	P2166	NONE	E1812
LAH21498		P1-21-7	BUFF HE INSTR DRN ALM	LOCAL	I13	9 53		3	P2166	NONE	E1909
LG21499-1	A	P1-21-7	1A BUFF HE INSTR DRN LVL	LOCAL	LI108	1			NONE	NONE	NONE
LG21499-2	A	P1-21-7	1A BUFF HE INSTR DRN LVL	LOCAL	LI108	1			NONE	NONE	NONE
B-LS21499-1	A	P1-21-7	1A BUFF HE INSTR DRN POT	LOCAL	PS195	16-77	A-SD	2	P2166	NONE	E1812
B-LS21499-2	A	P1-21-7	1A BUFF HE INSTR DRN POT	LOCAL	PS195	16-77	A-SD	2	P2166	NONE	E1812
LG21500-1	A	PI21-10	1D BUFF HE INSTR DRN LVL	LOCAL	LI108	1			NONE	NONE	NONE
LG21500-2	A	PI21-10	1D BUFF HE INSTR DRN LVL	LOCAL	LI108	1			NONE	NONE	NONE
B-LS21500-1	A	PI21-10	1D BUFF HE INSTR DRN POT	LOCAL	PS195	16-77	D-SD	3	P2166	NONE	E1812
B-LS21500-2	A	PI21-10	1D BUFF HE INSTR DRN POT	LOCAL	PS195	16-77	D-SD	3	P2166	NONE	E1812
LG21501-1	A	PI21-8	1B BUFF HE INSTR DRN LVL	LOCAL	LI108	1			NONE	NONE	NONE



INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

LISTED BY SYSTEM 21

INSTRUMENT NUMBER 01	PI OR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
LG21501-2A	PI21-8	1B BUFF HE INSTR DRN LVL	LOCAL	LI108	1		-2C6	NONE	NONE	NONE	NONE
<i>R</i> LS21501-1A	PI21-8	1B BUFF HE INSTR DRN POT	LOCAL	PS195	1-2-77	B-SD	3	-2C6 P2166	NONE		E1812
<i>B</i> LS21501-2A	PI21-8	1B BUFF HE INSTR DRN POT	LOCAL	PS195	1-2-77	B-SD	3	-2C6 P2166	NONE		E1812
LG21502	PI21-3	BUFFER HE K/O POT-DRYER	LOCAL	LG101	1		-2C4	NONE	NONE	NONE	NONE
LS21502 <i>B</i>	PI21-3	BUFFER HE K/O POT-DRYER	LOCAL	PS189	1-4-75	RF	3	-2C4 P924	NONE		E1121
UA21502	PI21-3	BUF HE DRYR MALFUNCT ALRM	IU1	NONE	9 53			P2030	NONE		E1890
XA21502	PI21-3	BUF HE DRYR HALFUNCT ALRM	I01	NONE	9 53			P2030	NONE		E1890
<del>HV</del> 21503 <i>A</i>	PI21-3	REGEN F.C. BYPASS	S2101		2 1	RF		7E	21514		
<i>14</i> PI21503 <i>B</i>	PI21-7	1A STM TURB CAV PRESS	I01	EI161	9-5-77 2	A-SD	2	7 P1836	NONE	2229	E1297
<i>B</i> <i>5</i> PS21503 <i>A</i>	PI21-3	REGEN GAS PRESS	S2101	PS157	1-1-77	A-SD	2	-2D4 PS22	21514		E1121
<i>6</i> PT21503 <i>B</i>	PI21-7	1A STM TURB CAV PRESS	I126	EI162	9-2-77 2	A-SD	2	-3C2 P1836	NONE	1779	E1511
<i>14</i> PI21504 <i>B</i>	PI21-9	1C STM TURB CAV PRESS	I01	EI161	9-6-77 2	C-SD	2	7 P1836	NONE	1779	E1297
<i>8</i> PT21504 <i>B</i>	PI21-9	1C STM TURB CAV PRESS	I135	EI162	9-3-77 2	C-SD	2	-3B2 P1836	NONE	1779	E1511
<i>14</i> PI21505 <i>B</i>	PI21-8	1B STM TURB CAV PRESS	I01	EI161	9-6-77 2	B-SD	2	7 P1836	NONE	2229	E1297
<i>8</i> PT21505 <i>B</i>	PI21-8	1B STM TURB CAV PRESS	I132	EI162	9-3-77 2	B-SD	2	-3C1 P1836	NONE	1691	E1511
<i>14</i> PI21506 <i>B</i>	PI21-10	1D STM TURB CAV PRESS	I01	EI161	9-1-77 2	D-SD	2	7 P1836	NONE	1779	E1297

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC	INST DATA SHEET	PROCUREMENT SPEC	ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CONN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
<del>PI21506</del> B	PI21-10	10 STM TURB CAV PRESS	I142	EI162	9-77	D-SD	2 -3A1	P1836	NONE	1779	E1511
1 PI21507 B	PI21-7	EMERG PRESS SUPPLY LP I	LOCAL	PI141	16/78	1 SD	2	NONE	NONE	NONE	NONE
PAL21507	PI21-7	EMERG PRESS SUPP LP I LOW	IO2		9	2 1 SD	3	P449	NONE	NONE	E1290
10 PCV21507 B	PI21-7	HELIUM	LOCAL	PR6	9	26 1-SD	3	-1C5	NONE	NONE	NONE
5 PC-21507 B	PI21-7	EMERG PRESS SUPPLY LOOP I	LOCAL	PS171	16-78	1-SD	3	11 P449	NONE	2637	1810
1 PI21508 B	PI21-9	EMERG PRESS SUPPLY LP II	LOCAL	PI141	16/78	2 SD	3	5	NONE	NONE	NONE
PAL21508	PI21-9	EMERG PRESS SUPP LP II LOW	IO2		9	2 2 SD	3	P449	NONE	NONE	E1294
10 RCV21508 B	PI21-9	HELIUM	LOCAL	PR6	9	26 2-SD	3	-1C4	NONE	NONE	NONE
5 RSL21508 B	PI21-9	EMERG PRESS SUPPLY LP II	LOCAL	PS171	16-78	2-SD	3	11 P449	NONE	2637	1810
HS21509	PI21-7	EMERG PRESS 1A	IO2	CS152	9	2	7	P449	NONE	NONE	1290
1 PI21509 D	PI21-7	EMERG PRESS 1A	LOCAL	PI141	17/78	NS		NONE	NONE	NONE	NONE
2 HSV21509	PI21-7	EMERG PRESS 1A	LOCAL	SV110	1	NS	3	-1C6 P449	NONE	2642	1813
HS21510	PI21-9	EMERG PRESS 1C	IO2	CS152	9	2	7	P449	NONE	NONE	1294
1 PI21510 D	PI21-9	EMERG PRESS 1C	LOCAL	PI141	17/78	NS	3	5	NONE	NONE	NONE
4 HSV21510	PI21-9	EMERG PRESS 1C	LOCAL	SV110	1	NS	3	-1D3 P449	NONE	2642	1813
HS21511	PI21-8	EMERG PRESS 1B	IO2	CS152	9	2	7	P449	NONE	NONE	1290

INSTRUMENT LIST  
 FORT ST VRAIN UNIT 1  
 PUBLIC SERVICE COMPANY OF COLORADO

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI OR CI DWG	SERVICE	INST LOC	INST DATA SHEET	PROCUREMENT SPEC	PNEU ELECT POWER SUPPLY	INST LOCATION DRAWING	ELEM SCHEME DRAWING	INST INSTALL DRAWING	CABLE TAB DRAWING	ELECT CORN DRAWING
01	02	03	04	05	06	07	08	09	10	11	12
7 PI21511	D	PI21-8	EMERG PRESS 1B	LOCAL	PI141	1 7/78	N/S	2	NONE	NONE	NONE
7 HSV21511		PI21-8	EMERG PRESS 1B	LOCAL	SV110	1		3 -106	P449	NONE	2642 1813
HS21512		PI21-10	EMERG PRESS 1D	IO2	CS152	9 ?		7	P449	NONE	NONE 1294
7 PI21512	D	PI21-10	EMERG PRESS 1D	LOCAL	PI141	1 7/78	N/S	5	NONE	NONE	NONE
4 HSV21512		PI21-10	EMERG PRESS 1D	LOCAL	SV110	1		3 -103	P449	NONE	2642 1813
14 PI21514	B	PI21-9	EMERG PRESS 1C	IO1	EI131	9 3/78	C-SD	3 7	-	B1282	E1293
PI21514	B	PI21-9	EMERG PRESS 1C	LOCAL	TM204	9 7/78 12	C-SD	3 -103	-	E1807	E1293
14 PI21515	B	PI21-7	EMERG PRESS 1A	IO1	EI131	9 3/78	A-SD	3 7	-	B1282	E1290
8 PT21515	B	PI21-7	EMERG PRESS 1A	LOCAL	TM204	9 7/78 12	A-SD	3 -106	-	E1807	E1290
4 PI21516	B	PI21-10	EMERG PRESS 1D	PI21-10	EI131	9 3/78	D-SD	3 7	-	B1282	E1293
8 PT21516	B	PI21-10	EMERG PRESS 1D	PI21-10	TM204	9 7/78 12	D-SD	3 -103	-	E1807	E1293
14 PI21517	B	PI21-8	EMERG PRESS 1B	IO1	EI131	9 3/78	B-SD	3 7	-	E1282	E1290
8 PT21517	B	PI21-8	EMERG PRESS 1B	LOCAL	TM204	9 7/78 12	B-SD	3 -106	-	E1807	E1290
PDAHL21518		PI21-7	BUFFER & P 1A	I70	NONE	N		P2040		E1726	8711 E1709
1 PI21519	D	PI21-3	BFR HE RECIRC CNTD TANKS	LOCAL	PI150	16-15	N/S	110	NONE	NONE	NONE NONE

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INSTRUMENT LIST  
FORT ST VRAIN UNIT 1  
PUBLIC SERVICE COMPANY OF COLORADO

GULF GENERAL ATOMIC  
90-IL-6-7 ISSUE M  
DATE 12-12-77 SHEET 271

LISTED BY SYSTEM 21

INSTRUMENT NUMBER	PI CR CI DWG 02	SERVICE 03	INST LOC ATION 04	INST DATA SHEET 05	PROCURE MENT SPEC 06	PNEU ELECT POWER SUPPLY 07	INST LOCATION DRAWING 08	ELEM SCHEME DRAWING 09	INST INSTALL DRAWING 10	CABLE TAB DRAWING 11	ELECT CONN DRAWING 12
<i>D</i> PI21520	PI21-3	BFR HE RECIRC	LOCAL	PI150	1-17-78		M194A3	NONE	NONE	NONE	NONE
<i>D</i> PI21521	PI21-3	BFR HE RECIRC	LOCAL	PI150	1-17-78		M228B10	NONE	NONE	NONE	NONE
<i>D</i> PI21522	PI21-3	BFR HE RECIRC	LOCAL	PI150	1-17-78		M194A3	NONE	NONE	NONE	NONE
POAHL21526	PI21-8	BUFFER AP 1B	I70	NONE	N		E49	P2040	E1726	16695	E1709
POAHL21529	PI21-9	BUFFER AP 1C	I70	NONE	N		E49	P2050	E1726	8712	E1709
POAHL21530P	PI21-7	BUFFER AP HIGH	I70				E8703	P2040		P16696	E1709
POAHL21530	PI21-10	BUFFER AP 1D	I70	NONE	N		E49	P2050	E1726	16696	E1709
<i>D</i> PI21531P	PI82-7	NITROGEN		NONE	J						
<i>D</i> PI21532P	PI21-11	HELIUM	LOCAL	NONE	J						
<i>D</i> PI21533P	PI21-14	HELIUM	LOCAL	NONE	:						

} not installed yet!

*(Handwritten mark)*



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
631 PARK AVENUE  
KING OF PRUSSIA, PENNSYLVANIA 19406

TEPA

Docket No. DPR-26

13 DEC 1978

Consolidated Edison Company of  
New York, Inc.  
ATTN: Mr. W. J. Cahill, Jr.  
Vice President  
4 Irving Place  
New York, New York 10003

Gentlemen:

Subject: Inspection 50-247/78-32

This refers to the inspection conducted by Mr. T. Rebelowski of this office on October 15 to November 11, 1978, at Indian Point Nuclear Generating Station, Unit 2, Buchanan, New York, of activities authorized by NRC License No. DPR-26 and to the discussions of our findings held by Mr. Rebelowski with Mr. J. Makepeace of your staff at the conclusion of the inspection.

Areas examined during this inspection are described in the Office of Inspection and Enforcement Inspection Report which is enclosed with this letter. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector.

Within the scope of this inspection, no items of noncompliance were observed.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed inspection report will be placed in the NRC's Public Document Room. If this report contains any information that you (or your contractor) believe to be proprietary, it is necessary that you make a written application within 20 days to this office to withhold such information from public disclosure. Any such application must be accompanied by an affidavit executed by the owner of the information, which identifies the document or part sought to be withheld, and which contains a statement of reasons which addresses with specificity the items which will be considered by the Commission as listed in subparagraph (b)(4) of Section 2.790. The information sought to be withheld shall be incorporated as far as possible into a separate part of the affidavit. If we do not hear from you in this regard within the specified period, the report will be placed in the Public Document Room.

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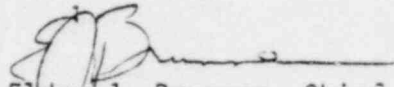
50-247 Q

Consolidated Edison Company of  
New York

2 1 3 DEC 1978

No reply to this letter is required; however, if you should have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,



Eldon J. Brunner, Chief  
Reactor Operations and Nuclear  
Support Branch

Enclosure: Office of Inspection and Enforcement Inspection Report  
Number 50-247/78-32

cc w/encl:

- L. O. Brooks, Project Manager, IP Nuclear
- W. Monti, Manager, Nuclear Power Generation Department
- T. Law, Plant Manager
- J. M. Makepeace, Director, Technical Engineering
- J. W. Kilduff, Assistant to Resident Manager (PASNY)
- J. D. Block, Esquire, Executive Vice President - Administration
- E. J. Sack, Esquire
- A. Z. Roisman, Natural Resources Defense Council (Without Report)