ATTACHMENT 1

Fourth Interval Inservice Inspection

Program Plan

1.0 INTRODUCTION AND BACKGROUND

INTRODUCTION

This Inservice Inspection (ISI) Program Plan details the requirements for the examination of ASME Class 1, 2, and 3 components and component supports at the Fort Calhoun Station. This Program Plan is effective from October 31, 2003 through September 25, 2013 ± 1 year Interval extension as allowed by paragraph (d) of IWA-2430.

FOURTH INTERVAL ISI PROGRAM

In accordance with 10 CFR 50.55a(g), Omaha Public Power District is required to update the ISI program per ASME Section XI (the Code) for Fort Calhoun Station once every ten years. The ISI program is required by 10 CFR 50.55a(g)(4)(ii) to comply with the latest edition and addenda of the Code incorporated by reference in 10 CFR 50.55a one year prior to the start of the interval. Accordingly, the 1998 Edition and addenda through the 2000 Addenda of ASME Section XI is the Code that Fort Calhoun must meet for the fourth ten year inspection interval.

The fourth inspection interval for Fort Calhoun is currently scheduled to commence October 31, 2003.

Code Cases

It is the intent of the Fort Calhoun Station to adopt several ASME Code Cases. The Code Cases intended for use at this time include N498-1, N416-1, N461-1 and N-522. These Code Cases are approved for use and currently listed in USNRC Regulatory Guide 1.147, Revision 12. Additional Code Cases are proposed to be used that are not currently approved by the NRC. Applicable relief has been requested. If at a later date, it is determined that a Code Case may be suitable for use then the ISI Program Plan will be revised accordingly.

Requests For Relief

In accordance with 10 CFR 50.55a, when a licensee proposes alternatives to Section XI requirements, which provide an acceptable level of quality and safety; determines compliance with Section XI requirements would result in hardship or unusual difficulty without a compensating increase in the level of quality and safety; or determines that specific ASME Section XI requirements for inservice inspection are impractical, the licensee shall notify the NRC and submit information to support the determination.

The submittal of this information will be referred to in this document as a "Relief Request" or "Request for Relief". Relief Requests for the fourth interval are included in Section 7.0 of this document. The relief request format employed includes a section with the heading "Basis For Relief". The text of the Relief Requests contained in Section 7.0 will demonstrate that: the proposed alternatives provide an acceptable level of quality and safety per 10 CFR 50.55a(a)(3)(i); or compliance with the specified requirements would result in hardship or unusual difficulty without a compensating increase in the level of quality and safety per 10 CFR 50.55a(a)(3)(ii); or the code requirements are considered impractical per 10 CFR 50.55a(g)(5)(iii).

2.0 BASIS FOR INSERVICE INSPECTION PROGRAM

2.1 ASME Section XI Examination Requirements

In accordance with the Code Of Federal Regulations, Title 10, Part 50, Section 55a, (10 CFR 50.55a), this ISI Program Plan was developed in accordance with the requirements delineated in the 1998 Edition and Addenda through the 2000 Addenda of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Subsections IWA, IWB, IWC, IWD, IWF, Mandatory Appendices, and Inspection Program B of IWA-2432, except as noted below.

2.1.1 The use of alternative examination methods, a combination of methods, or newly developed techniques to be substituted for the methods specified in the Construction Code during repair and replacement activities allowed by IWA-2240 and IWA-4520(c) will not be used.

2.1.2 Level I and II NDE personnel and personnel qualified under the Nondestructive Testing Control Certification Program shall be recertified on a 3-year interval in lieu of the 5-year interval specified in IWA-2314.

2.1.3 When qualifying VT-2 examination personnel in accordance with IWA-2316, the proficiency of the training required under IWA-2316 will be demonstrated by administering initial qualification and recertification examinations. The implementation of IWA-2316 is only applicable to the performance of VT-2 visual examinations.

2.1.4 When qualifying VT-3 examination personnel in accordance with IWA-2317, the proficiency of the training required under IWA-2317 will be demonstrated by administering initial qualification and recertification examinations. The implementation of IWA-2317 is only applicable to the performance of VT-3 visual examinations.

2.1.5 Repair and replacement items for ASME Code safety-related applications will be procured under the Fort Calhoun Station approved quality assurance program required by 10 CFR Part 50, in lieu of the requirements contained in IWA-4200.

2.1.6 Fort Calhoun Station will demonstrate the acceptability of underwater welding methods through the use of mockups using material with similar neutron fluence levels, when welding on high neutron fluence Class 1 material underwater in accordance with IWA-4660.

2.1.7 Piping that penetrates the containment that is connected to piping that is outside the scope of Section XI will not be exempt from the pressure test provisions of Subsection IWA as permitted by IWA-5110(c).

2.1.8 The system leakage test pressure and temperature hold time requirements of IWA-5213(a) of the 1995 Edition of Section XI will be retained in the ISI program. A 10-minute hold time for non-insulated systems and components or 4-hour hold time for insulated systems and components will be required after attaining system operating pressure.

2.1.9 For Class 1 piping the exemption criteria in IWB-1220 of the 1989Edition will be used in lieu of exemption criteria in IWB-1220 of the 1998 Edition and addenda through the 2000 Addenda.

2.1.10 The pressurizer and steam generator nozzle inside radius inspections will be retained in the ISI program. The provisions of Table IWB-2500-1 examination category B-D, full penetration welded nozzles in vessels, items B3.120 and B3.140 of the 1996 Addenda and 1995 Edition will be used.

2.1.11 The CRD bolting examinations of Table IWB-2500-1, Examination Category B-G-2, Item B7.80, of the 1995 Addenda will be used.

2.1.12 The attachment weld single-sided volumetric examination requirements of Table IWB-2500-1, Examination Category B-K, Item B10.10, of the 1995 Addenda will be used.

2.2 Augmented Examination Requirements

No augmented examinations are currently incorporated in this ISI program plan.

2.3 Fort Calhoun Station System Quality Group Classification and System Safety Classes

The Quality Group Classification of Fort Calhoun Station systems and components meets the intent of USNRC Regulatory Guide 1.26. Components which are part of the reactor coolant pressure boundary or those safety systems which are in support of the reactor coolant system have been designated as Quality Group A, B, or C in accordance with 10 CFR 50.2 and Regulatory Guide 1.26.

2.4 Fort Calhoun Station Systems and Components Subject To Examination

The systems and components included in the Fort Calhoun Station ASME Section XI Program are typically those designed per ASME Section III, Class 1, 2, and 3 (or equivalent codes and standards) that meet the criteria of IWA-1300.

2.5 Fort Calhoun Station Nonexempt ASME Class Components and Component Supports

The Fort Calhoun Station ASME Class 1, 2, and 3 nonexempt components which require inspection are those which have not been exempted under the criteria of Section XI, subarticles IWB-1220, IWC-1220, and IWD-1220.

Component supports which have not been exempted under the criteria of IWF-1230 are also subject to examination.

The isometrics and drawings included in Table 2.4 identify all nonexempt ASME Class 1, 2 and 3 components and component supports at Fort Calhoun Station.

A summary of Fort Calhoun Section XI nonexempt components and component supports is included in Section 6.0.

TABLE 2.4
FORT CALHOUN STATION ISI ISOMETRIC DRAWINGS

DRAWING NUMBER	COMPONENTS
A-1	REACTOR PRESSURE VESSEL WELDS
A-1A	REACTOR PRESSURE VESSEL
A-1B	REACTOR PRESSURE VESSEL
A-2	REACTOR PRESSURE VESSEL LOWER HEAD
A-2A	REACTOR PRESSURE VESSEL CLOSURE HEAD
A-3	PRESSURE VESSEL
A-4	PRESSURIZER NOZZLE-TO-UPPER HEAD AND LOWER HEAD
A-5	STEAM GENERATOR NO. 1(A)
A-5A	STEAM GENERATOR SUPPORT ASSEMBLY
A-6	STEAM GENERATOR NO. 2(B)
A-7	REGENERATIVE HEAT EXCHANGER CH-6
A-8	MAIN REACTOR COOLANT – LOOP 1(A)
A-9	MAIN REACTOR COOLANT – LOOP 2(B)
A-9A	REACTOR COOLANT PUMP CASING
A-9B	REACTOR COOLANT PUMPS
A-10	2-DL-10
A-11	2-DL-11
A-12	2-DL-13
A-13	2-DL-23
A-14	10-PSG-10
A-15	4-PSS-1
A-16	PRESSURIZER SAFETY 3-PSL-1, 3-PSL-2, 4-PSL-1 AND 4-PSL-2
A-17	PRESSURIZER SPRAY 3-PSS-14 AND 2-PSS-15
A-18	3-PSS-22 AND 2-PSS-23
A-19	PRESSURIZER RELIEF 3-PRL-1
A-20	PRESSURIZER RELIEF 21/2-PRL-2 AND 21/2-PRL-3
A-21	2-AS-1
A-22	12-SI-12
A-23	12-SI-14
A-24	12-SI-22
A-25	12-SI-24
A-26	6-SI-12
A-27	6-SI-14
A-28	6-SI-22
A-29	6-SI-24
A-30	3-HPH-12
A-31	3-HPH-14
A-32	3-HPH-22
A-33	3-HPH-24
A-34	2-HPH-1.14
A-35	2-HPH-1.12

TABLE 2.4
FORT CALHOUN STATION ISI ISOMETRIC DRAWINGS

DRAWING NUMBER	COMPONENTS
A-36	2-HPH-1.22
A-37	2-HPH-1.24
A-38	2-HPH-2.12
A-39	2-HPH-2.14
A-40	2-HPH-2.22
A-41	2-HPH-2.24
A-42	12-SDC-20
A-43	2-CL-12 & 2-CL-1
A-44	2-CL-22
A-45	2-LL-1
A-46	2-LL-2
A-47	2-LL-21
B-1	STEAM GENERATOR A RC-2A
B-2	STEAM GENERATOR B RC-2B
B-3	28-MS-2001
B-4	28-MS-2001, 6-MS-2001, 6-MS-2002, 6-MS-2003 & 6-MS-2004
B-5	28-MS-2002
B-6	28-MS-2002, 6-MS-2005, 6-MS-2006, 6-MS-2007 & 6-MS-2008
B-7	16-FW-2001
B-8	16-FW-2002
B-9	14-LPSI-2001 EXEMPT
B-10	14-LPSI-2002 EXEMPT
B-11	12-SDC-2020
B-12	12-LPSI-2012 EXEMPT
B-13	12-LPSI-2014 EXEMPT
B-14	12-LPSI-2022 EXEMPT
B-15	12-LPSI-2024 EXEMPT
B-16	12-LPH-2001
B-17	12-LPSI-2002
B-18	12-LPSI-2003
B-19	12-CSS-2001
B-20	12-CSS-2002
B-21	12-SDC-2001
B-22	12-SDC-2002
B-23	12-SDC-2003
B-23	10-LPH-2001 EXEMPT
B-24	10-LPSI-2001 EXEMPT
B-25	10-LPSI-2002 EXEMPT
B-26	8-CSS-2001 EXEMPT
B-27	8-CSS-2002 EXEMPT
B-28	8-CSS-2003 EXEMPT
B-29	8-LPSI-2001 EXEMPT
B-30	8-LPSI-2002
B-31	6-LPH-2002 EXEMPT, 6-SI-2022, 4-LPH-2022/08 & 4-SI-2022/09
B-32	6-LPH-2024 EXEMPT, 6-SI-2024, 4-LPH-2024/08 & 4-SI-2024/09
B-33	6-LPH-2012 EXEMPT, 6-SI-2012, 4-LPH-2012/08 & S-SI-2012/09
B-34	6-LPH-2014 EXEMPT, 6-SI-2014, 4-LPH-2014/18 & 4-SI-2014/19

TABLE 2.4
FORT CALHOUN STATION ISI ISOMETRIC DRAWINGS

DRAWING NUMBER	COMPONENTS
B-35	6-CSS-2001 EXEMPT
B-36	24-SI-2001 & 20-SI-2001
B-37	24-SI-2002 & 20-SI-2002
B-38	12-CSS-2004 & 12-CSS-2005
B-39	12-CSS-2011, 12-CSS-2012 & 12-CSS-2013
B-40	8-HPSI-2001 EXEMPT, 6-HPSI-2002 EXEMPT & 6-HPSI-2003 EXEMPT
B-41	6-HPSI-2001 EXEMPT
B-42	6-SI-2002
B-43	REGENATIVE HEAT EXCHANGER CH-6
B-44	AC-4A & AC-4B SHUTDOWN HEAT EXCHANGERS
B-45	LET DOWN HEAT EXCHANGER CH-7
B-46	VOLUME CONTROL TANK
B-47	CONTAINMENT SPRAY PUMPS SI-3A, -3B & -3C LOW PRESSURE SAFETY INJECTION PUMPS SI-1A & SI-1B
B-48	6-AC-2001 EXEMPT
B-49	6-AC-2002 EXEMPT
B-50	10-AC-2001 EXEMPT
B-50A	6-AC-2003 EXEMPT & 6-AC-2004 EXEMPT
B-51	10-AC-2002 EXEMPT
B-51A	6-AC-2005 EXEMPT & 6-AC-2006 EXEMPT
B-52	6-AC-2007 & 8-AC-2001 EXEMPT
B-53	6-AC-2008 & 8-AC-2002 EXEMPT
B-54	6-AC-2009 & 8-AC-2003 EXEMPT
B-55	6-AC-2012 & 8-AC-2004 EXEMPT
B-56	10-AC-2003 EXEMPT, 6-AC-2011 EXEMPT & 6-AC-2012 EXEMPT
B-57	10-AC-2004 EXEMPT, 6-AC-2013 EXEMPT & 6-AC-2014 EXEMPT
B-58	3-AFW-3001 EXEMPT
B-59	3-AFW-3002 EXEMPT
B-60	2-CH-10
B-61	2-CH-11
B-62	2-CH-12
B-63	2-CH-13
B-64	2-CH-14 & 2.5-CH-10
B-65	2-CH-15
B-66	2-CH-16 & 2.5-CH-11
B-67	2-CH-17
B-68	2-CH-18
B-69	2-CH-19
B-70	2-CH-20
B-71	2-CH-21

TABLE 2.4
FORT CALHOUN STATION ISI ISOMETRIC DRAWINGS

DRAWING NUMBER	COMPONENTS
B-72	2-CH-22
B-73	4-CH-10
B-74	4-CH-11 & 2-CH-23
B-75	4-CH-12 & 2-CH-23
B-76	4-CH-13
B-77	2-CH-24
B-78	3-CH-25
B-79	2-CH-26
B-80	2-CH-27
B-81	4-CH-14
B-82	2-CH-28
B-83	2-CH-29
B-84	2-CH-30
B-85	2-CH-31
B-86	36-MS-1
C-1	4-FW-1 & 1.5-FW-1
C-2	3-FW-1A
C-3	4-FW-10
C-4	2-FW-1
C-5	2-FW-2A, 2-FW-2B & 2-FW-2C
C-6	2-FW-3
C-7	2-FW-3
C-8	4-FW-2A, 4-FW-2B & 4-FW-6
C-9	4-FW-3A, 4-FW-3B & 4-FW-4
C-10	4-FW-4
C-11	4-FW-5
C-12	4-FW-5 & 4-FW-6
C-13	3-FW-3 & 4-FW-7
C-14	3-FW-1 & 3-FW-2
C-15	1.3-FW-2
C-16	1.5-FW-2
C-17	4-FW-9B, 6-FW-1A, 6-FW-1B & 8-FW-1
C-18	8-FW-1
C-19	14-AC-1A, 14-AC-1B, 14-RW-1 & 16-RW-1
C-20	16-RW-2
C-21	16-RW-2
C-22	16-RW-1 & 16-RW-2
C-23	20-RW-1
C-24	12-RW-1 & 20-RW-2
C-25	16-RW-4 & 20-RW-3
C-26	12-RW-2A, 12-RW-2B, 14-RW-2, 16-RW-3, 16-RW-4, 16-RW-6 & 20-RW-4
C-27	20-RW-4 & 20-RW-5
C-28	12-RW-2A & 12-RW-2B
C-29	20-RW-6, 20-RW-6A, 20-RW-6B, 20-RW-6C & 20-RW-6D
C-30	20-RW-7

TABLE 2.4
FORT CALHOUN STATION ISI ISOMETRIC DRAWINGS

DRAWING NUMBER	DRAWING TITLE
C-31	8-AC-5A, 8-AC-5B, 10-AC-5A, 10-AC-5B & 16-AC-9
C-32	6-AC-5
C-33	6-AC-6
C-34	16-AC-9A, 16-AC-9B & 16-AC-10
C-35	6-AC-1
C-36	16-AC-1 & 16-AC-10
C-37	6-AC-2, 12-AC-1, 16-AC-1 & 16-AC-2
C-38	10-AC-1A, 10-AC-1B, 10-AC-2A & 10-AC-2B
C-39	8-AC-1, 8-AC-2, 8-AC-1A & 12-AC-2
C-40	14-AC-2, 14-AC-3A, 14-AC-3B & 16-AC-3
C-41	16-AC-4
C-42	12-AC-3A, 12-AC-3B, 12-AC-3C & 16-AC-5
C-43	14-AC-4 & 16-AC-4
C-44	8-AC-2A, 8-AC-2B & 12-AC-4
C-45	8-AC-2B
C-46	12-AC-5A, 12-AC-5B, 12-AC-5C & 16-AC-6
C-47	16-AC-6
C-48	16-AC-6
C-49	10-AC-3A, 10-AC-3B, 12-AC-6A & 12-AC-6B
C-50	10-AC-4A & 10-AC-4B
C-51	6-AC-3
C-52	6-AC-3
C-53	2-MS-4, 2-MS-5 & 2-MS-6
C-54	2-MS-5
C-55	2-MS-4
C-56	14-RW-10
C-57	16-RW-12
C-58	16-RW-11
C-59	6-RW-10
C-60	16-RW-13
C-61	16-RW-10
C-62	6-RW-11 & 12-RW-10

2.6 Ultrasonic Calibration Blocks

The following is a list of ultrasonic calibration blocks intended for use during the 4th ten-year inspection interval. Only the calibration block number is provided. The specific details on each block are part of permanent plant records and maintained on site.

Calibration Block No. 2-FCL	Calibration Block No. 27-FCL
Calibration Block No. 3-FCL	Calibration Block No. 28-FCL
Calibration Block No. 4-FCL	Calibration Block No. 29-FCL
Calibration Block No. 5-FCL	Calibration Block No. 30FCL
Calibration Block No. 6-FCL	Calibration Block No. 31-FCL
Calibration Block No. 7-FCL	Calibration Block No. 32-FCL
Calibration Block No. 8-FCL	Calibration Block No. 33-FCL
Calibration Block No. 9-FCL	Calibration Block No. 34-FCL
Calibration Block No. 10-FCL	Calibration Block No. 35FCL
Calibration Block No. 11-FCL	Calibration Block No. 36-FCL
Calibration Block No. 12-FCL	Calibration Block No. 37-FCL
Calibration Block No. 13-FCL	Calibration Block No. 38-FCL
Calibration Block No. 14-FCL	Calibration Block No. 39-FCL
Calibration Block No. 15-FCL	Calibration Block No. 40-FCL
Calibration Block No. 16-FCL	Calibration Block No. 41-FCL
Calibration Block No. 17-FCL	Calibration Block No. 42-FCL
Calibration Block No. 18-FCL	Calibration Block No. 43-FCL
Calibration Block No. 19-FCL	Calibration Block No. 44-FCL
Calibration Block No. 20-FCL	Calibration Block No. 45-FCL
Calibration Block No. 21-FCL	Calibration Block No. 64-FCL
Calibration Block No. 22-FCL	Calibration Block No. 65-FCL
Calibration Block No. 23-FCL	Calibration Block No. 67-FCL
Calibration Block No. 24-FCL	Calibration Block No. 2-FCL
Calibration Block No. 25-FCL	Calibration Block No. 2-FCL
Calibration Block No. 26-FCL	Calibration Block No. 2-FCL

2.7 Nondestructive Examinations and Procedures

Nondestructive examinations (NDE) will be performed at FCS using only approved procedures. The FCS specific NDE examination procedures are provided by outside vendors who are contracted during the interval to supply inservice inspection services. Examinations and NDE processes are controlled and governed by the FCS ISI program procedure, "SE-ST-MX-3003".

3.0 COMPONENT INSERVICE INSPECTION PROGRAM PLAN

The Fort Calhoun Station Component ISI Program Plan includes Section XI nonexempt pressure retaining welds, pressure retaining bolting, welded attachments, pump casings, valve bodies, reactor vessel interior, structures, reactor vessel interior attachments, reactor vessel removable core support structures, and steam generator tubing of ASME Class 1, 2, and 3 components that meet the criteria of IWA-1300

3.1 Fort Calhoun Station Nonexempt ASME Class Components

The Fort Calhoun Station ASME Class 1, 2, and 3 nonexempt components are those which do not meet the criteria of Section XI, subarticles of IWB-1220, IWC-1220 and IWD-1220. A summary of Fort Calhoun Station Section XI nonexempt components is included in Section 6.0.

3.2 Fort Calhoun Station Exempt ASME Class Components

The Fort Calhoun Station ASME Class 1, 2, and 3 components that are exempt from examination are those which meet the criteria of Section XI, subarticles IWB-1220, IWC-1220, and IWD-1220.

4.0 COMPONENT SUPPORT INSERVICE INSPECTION PROGRAM PLAN

The Fort Calhoun Station Component Support Program includes the supports of Section XI nonexempt ASME Class 1, 2, and 3 components as described in Sections 3.0.

FCS will continue the use of Plant System Technical Specification No. 3.3(1)(a), Snubbers, and associated bases; as found within the Fort Calhoun Station Technical Specifications, The Fort Calhoun Station, Technical Specifications contain specifically developed and approved visual examination and functional testing requirements

Performance of examinations and testing to the requirements of the Technical Specification meet the intent of the Code requirements. However, use of the Technical Specification differs in the areas of examination scheduling, re-examinations and functional testing requirements. Visual examination and testing to the more stringent requirements of the Technical Specification will continue to result in an increase in the overall level of Plant quality and safety.

These mechanical and hydraulic snubbers were constructed and installed in accordance with the requirements of the FCS USAR, Section 4.5.11. Documentation of fabrication and installation examinations is stored at the plant site. After the plant went into commercial service and operation, all safety related snubbers have been and continue to be visually inspected and functionally tested in accordance with Plant Technical Specifications and the ASME OM Code Section ISTD.

4.1 Fort Calhoun Nonexempt ASME Class Component Supports

The Fort Calhoun Station ASME Class 1, 2, and 3 nonexempt component supports are those which do not meet the criteria of subarticle IWF-1230. A summary of Fort Calhoun Station Section XI nonexempt component supports is included in Section 6.0.

4.2 Fort Calhoun Station Exempt ASME Class Component Supports

The Fort Calhoun Station ASME Class 1, 2, and 3 supports that are exempt from examination are those which meet the criteria of subarticle IWF-1230

4.3 Augmented Examination Requirements

4.3.1 Currently, no component support augmented inservice inspection requirements are included in the Fort Calhoun Station ISI Program Plan.

5.0 SYSTEM PRESSURE TESTING PROGRAM PLAN

The Fort Calhoun System Pressure Testing Program is performed and conducted in a separate program from the Inservice Inspection Program. This program includes all pressure retaining nonexempt and exempt Section XI, ASME Class 1, 2, and 3 components, with the exception of those specifically excluded by Articles IWA-, IWB-, IWC-, and IWD-5000, and Table IWB-2500-1, Category B-P; Table IWC-2500-1, Category C-H; and Table IWD-2500-1, Categories D-A, D-B, and D-C.

The System Pressure Testing Program performs leakage tests and visual inspections on the ISI Class 1, 2, and 3 pressure retaining boundaries to verify system and component structural integrity. This program conducts both Periodic (3-year, 4-year, 3-year frequency) and Interval (10-year frequency) pressure tests as defined in Section XI Inspection Program B. The following pressure test procedures will be used at FCS during the 4th ten-year inspection interval. As necessary, this list may be revised accordingly during the interval.

PRESSURE TEST PROCEDURE	FREQUENCY
IC-ST-AE-3114	ONCE EVERY 40 MONTHS
IC-ST-AE-3124	ONCE EVERY 40 MONTHS
IC-ST-AE-3125	ONCE EVERY 40 MONTHS
IC-ST-AE-3130	ONCE EVERY 40 MONTHS
IC-ST-AE-3169	ONCE EVERY 40 MONTHS
QC-ST-AFW-3002	ONCE EVERY 40 MONTHS
QC-ST-CA-3001	ONCE EVERY 40 MONTHS
QC-ST-CCW-3001	ONCE EVERY 40 MONTHS
QC-ST-CH-3001	ONCE EVERY FUEL CYCLE
QC-ST-CH-3002	ONCE EVERY FUEL CYCLE
QC-ST-CH-3005	ONCE EVERY 40 MONTHS
SE-ST-FO-3001	ONCE EVERY 40 MONTHS
SE-ST-FW-3001	ONCE EVERY 40 MONTHS
QC-ST-IA-3001	ONCE EVERY 40 MONTHS
QC-ST-MS-3001	ONCE EVERY 40 MONTHS
QC-ST-MX-3001	ONCE EVERY FUEL CYCLE
QC-ST-MX-3002	ONCE EVERY 40 MONTHS
QC-ST-NG-3001	ONCE EVERY 40 MONTHS
OP-ST-RC-3007	ONCE EVERY FUEL CYCLE

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PRESSURE TEST PROCEDURE	FREQUENCY
SE-ST-RW-3001	ONCE EVERY 40 MONTHS
SE-ST-SA-3002	ONCE EVERY 40 MONTHS
SE-ST-SA-3003	ONCE EVERY 40 MONTHS
SE-ST-SDC-3001	ONCE EVERY FUEL CYCLE
SE-ST-SDC-3002	ONCE EVERY FUEL CYCLE
SE-ST-SDC-3003	ONCE EVERY FUEL CYCLE
QC-ST-SFP-3001	ONCE EVERY 40 MONTHS
QC-ST-SFP-3002	ONCE EVERY 40 MONTHS
QC-ST-SI-3003	ONCE EVERY 40 MONTHS
QC-ST-SI-3004	ONCE EVERY 40 MONTHS
QC-ST-SI-3006	ONCE EVERY 40 MONTHS
QC-ST-SI-3007	ONCE EVERY 40 MONTHS
QC-ST-SI-3008	ONCE EVERY FUEL CYCLE
QC-ST-SI-3014	ONCE EVERY 40 MONTHS
SE-ST-SI-3027	ONCE EVERY FUEL CYCLE
QC-ST-SL-3001	ONCE EVERY FUEL CYCLE
QC-ST-SL-3002	ONCE EVERY FUEL CYCLE
QC-ST-SL-3003	ONCE EVERY 40 MONTHS
QC-ST-SL-3004	ONCE EVERY 40 MONTHS
QC-ST-SL-3005	ONCE EVERY FUEL CYCLE
QC-ST-WDL-3001	ONCE EVERY 40 MONTHS
QC-ST-WDL-3003	ONCE EVERY 40 MONTHS

6.0 INSERVICE INSPECTION PROGRAM SUMMARY TABLES

The following Tables in this section provide a summary of the Section XI component, component support, and system pressure testing examinations and tests for Interval 4 at Fort Calhoun Station.

The format of the Inservice Inspection Summary Tables is shown below and an explanation of each column. The detailed examination schedule for components is contained in Section 10 of the plan.

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)

(1) Examination Category:

Provides the examination category and description as identified in ASME Section XI, Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1. Only those examination categories applicable to Fort Calhoun Station are identified.

(2) Item Number:

Provides the item number as identified in ASME Section XI, Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1. Only those item numbers applicable to Fort Calhoun Station are identified.

(3) Item Number Description:

Provides the description as identified in ASME Section XI, Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1.

(4) Examination Method:

Provides the examination method(s) required by ASME Section XI, Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1.

(5) Required Exams:

Provides for the examinations required by ASME Section XI, Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1.

(6) Deferral to End:

Provides for whether a deferral of examination requirement required by ASME Section XI, Tables IWB-2500-1is permissible.

(7) Total Number:

Provides the number of components within an Item Number.

(8) Number Required:

Provides the number of components required by ASME Section XI, Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1.

(9) Number 1st Period:

Provides the number of components selected for examination during the First Period of the ten year inspection interval.

(10) Number 2nd Period:

Provides the number of components selected for examination during the Second Period of the ten year inspection interval.

(11) Number 3rd Period:

Provides the number of components selected for examination during the Third Period of the ten year inspection interval.

(12) Relief Request Number:

Provides a listing of relief requests applicable to the Section XI Item Number. If a relief request number is identified, see the corresponding relief request in Section 7.0.

(13) Notes:

Provides a listing of program notes applicable to the Section XI Item Number. If a program note number is identified, see the corresponding program note in Section 8.0.

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams
Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
B-A Pressure Retaining Welds in Reactor Vessel	B1.10	Shell Welds										
	B1.11	Circumferential	Volumetric	All Welds	Permissible	3	3	-	-	3		
	B1.12	Longitudinal	Volumetric	All Welds	Permissible	9	9	-	-	9		
	B1.20	Head Welds						-	-			
	B1.21	Circumferential	Volumetric	Acces Length All Welds	Permissible	2	2	-	-	2		
	B1 22	Meridional	Volumetric	Acces. Length All Welds	Volumetric	12	12	-	-	12		
	B1.30	Shell-to-Flange Weld	Volumetric	Flange Face 1st Period	Partial	1	1	1 Partial	-	1		1
	B1.40	Head-to-Flange Weld	Volumetric & Surface	Flange Face 1st Period	Partial	1	1	1 Partial	-	1		2
	B1.50	Repair Welds	Volumetric	10% of t	Permissible	0	0					
	B1.51	Beltline Region	Volumetric	10%of t	Permissible	0	0					
Total Number of Exams Per Column						28	28	2 Partial	-	28		
Total Number of Exams Accumulated												
Required Accumulated Number Per Period								2 Partial	-	28		

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
B-B Pressure Retaining Welds In Vessels Other Than Reactor Vessels	B2.10	Pressurizer , Shell-To-Head Welds,										
	B2.11	Circumferential	Volumetric	All Welds	No	2	2	1(lower)	-	1(upper)		
	B2.12	Longitudinal	Volumetric	1 ft of welds intersecting B2.11 welds	No	4	2	1(lower)	-	1(upper)		
	B2 20	Pressurizer, Head Welds	N/A	One Piece Heads				-	-	-		
	B2 30	Steam Generators (Primary Side), Head Welds										
	B2.31	Circumferential	Volumetric	1 Weld per Head	No	4	1	-	1	-		
	B2.32	Meridional	Volumetric	1 Weld per Head	No	8	1	-	1	-		
	B2.40	Tube Sheet-To-Head Weld, Steam Generators (Primary Side)	Volumetric	Weld	No	2	1	1	-	-		
	B2.50	Heat Exchangers (Primary Side) – Head, Head Welds (RGHE)										
	B2.51	Circumferential (RGHE)	Volumetric	1 Weld per Head	No	2	1	-	-	1		
	B2.52	Meridonal	Volumetric	1 Weld per Head	No	0	0					
	B2.60	Tubesheet to Head Weld, Heat Exchangers (Primary Side) – Shell (RGHE)	Volumetric	Per Table IWB-2500-1	No	0	0					
	B2.70	Longitudinal Welds, Heat Exchangers (Primary Side) – Shell (RGHE)	Volumetric	Per Table IWB-2500-1	No	2	1	-	-	1		
	B2.80	Tubesheet-to-Shell Welds, Heat Exchangers (Primary Side) – Shell (RGHE)	Volumetric	Weld	No	2	1	-	-	1		
Total Number of Exams Per Column						26	10	3	2	5		
Total Number of Exams Accumulated								3	5	10		
Required Accumulated Number Per Period								2 - 5	5 - 7	10		

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
B-D Full Penetration Welds of Nozzles in Vessels - Inspection Program B	B3.90	Nozzle-to-Vessel Welds, Reactor Vessel	Volumetric	All Nozzles	Yes	6	6	-	-	6		
	B3.100	Nozzle Inside Radius Section, Reactor Vessel	Volumetric	All Nozzles	Yes	6	6	-	-	6		
	B3.110	Nozzle-to-Vessel Welds, Pressurizer	Volumetric	All Nozzles	No	5	5	2	3	-		
	B3.120	Nozzle Inside Radius Section, Pressurizer	Volumetric	All Nozzles	No	5	5	2	3	-		
	B3.130	Nozzle-to-Vessel Welds, Steam Generators (Primary Side)	Volumetric	All Nozzles	No	6	6	3 (LOOP A)	3 (LOOP B)	-		
	B3.140	Nozzle Inside Radius Section, Steam Generator	Volumetric	All Nozzles	No	6	6	3 (LOOP A)	3 (LOOP B)	-		
	B3.150	Nozzle-to-Vessel Welds, Heat Exchangers (Primary Side)	Volumetric	All Nozzles	No	4	4	2	-	2		
	B3.160	Nozzle Inside Radius Section, Heat Exchangers (Primary Side)	Volumetric	All Nozzles	No	4	4	2	-	2		
Total Number of Exams Per Column						42	42	14	12	16		
Total Number of Exams Accumulated								14	26	42		
Required Accumulated Number Per Period								7-21	21 - 31	42		
B-F Pressure Retaining Dissimilar Metal Welds In Vessel Nozzles	B5.10	Dissimilar Metal Nozzle-to-Safe End Butt Welds NPS 4 or Larger, Reactor Vessel	Volumetric & Surface	All Welds	Yes	6	6	-	-	6		
	B5.40	Dissimilar Metal Nozzle-to-Safe End Butt Welds NPS 4 or Larger, Pressurizer	Volumetric & Surface	All Welds	No	2	2	2	-	-		
	B5.50	Dissimilar Metal Nozzle-to-Safe End Butt Welds Less Than NPS 4 , Pressurizer	Surface	All Welds	No	3	3	1	2	-		
	B5.70	Dissimilar Metal Nozzle-to-Safe End Butt Welds NPS 4 or Larger, Steam Generator	Volumetric & Surface	All Welds	No	6	6*	3 (LOOP A)	3 (LOOP B)	-		
Total Number of Exams Per Column						17	17	6	5	6		
Total Number of Exams Accumulated								6	11	17		
Required Accumulated Number Per Period								3 - 8	9 - 12	17		

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams
Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
B-G-1 Pressure Retaining Bolting, Greater Than 2 in. in Diameter	B6.10	Reactor Vessel Closure Head Nuts	Visual, VT-1	All Nuts > 2"	Permissible	48	48	24	-	24		3
	B6.30	Reactor Vessel Closure Studs, when Removed	Volumetric & Surface	All Studs > 2"	Permissible	48	48	-	24	24		
	B6 40	Threads in Reactor Vessel Flange	Volumetric	All Studs Holes > 2"	Permissible	48	48	48	-	-		
	B6.50	Reactor Vessel Closure Washers	Visual, VT-1	All Washers > 2"	Permissible	48	48	-	-	48		
	B6.180	Bolts and Studs, Pumps (RC-3B)	Visual, VT-1	All Bolts/Studs > 2"	Permissible	64	16	-	16	-		
	B6.190	Flange Surface, When Disassembled, in Pumps (RC-3B)	Visual, VT-1	When Disassembled	Permissible	4	0	-	-	-		
	B6.200	Nuts and Washers, in Pumps (RC-3B)	Visual, VT-1	All > 2"	Permissible	64	16	-	16	-		
Total Number of Exams Per Column						324	224	72	56	96		
Total Number of Exams Accumulated								72	128	224		
Required Accumulated Number Per Period								36 - 112	112 - 168	224		
B-G-2* Pressure Retaining Bolting, 2 in and Less in Diameter *(Examined only if reused after disassembly)	B7.20	Bolts, Studs, & Nuts in Pressurizer	Visual, VT-1	All < 2"	No	1	1	1	-	-		3
	B7.30	Bolts, Studs, & Nuts in Steam Generator	Visual, VT-1	All < 2"	No	4	4	2 (LOOP A)	2 (LOOP B)	-		
	B7.50	Bolts, Studs, & Nuts in Piping	Visual, VT-1	All < 2"	No	6	6	2	2	2		
	B7.60	Bolts, Studs, & Nuts in Pumps	Visual, VT-1	All < 2"	No	4	4	2 (LOOP A)	2 (LOOP B)	-		
	B7.70	Bolts, Studs, & Nuts in Valves	Visual, VT-1	All < 2"	No	15	15	1	5	9		
	B7.80	Bolts, Studs, & Nuts in CRD Housings	Visual, VT-1	All < 2" If Disassembled	No	41	-	-	-	-		
Total Number of Exams Per Column						71	30	8	11	11		
Total Number of Exams Accumulated								8	19	30		
Required Accumulated Number Per Period								5 - 15	15 - 22	30		

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
B-J Pressure Retaining Welds in Piping	B9.10	NPS 4 and Larger										
	B9.11	Circumferential Welds	Surface & Volumetric	25 % of All Circumferential Welds	No	190	85	25	26	36		4
	B9 20	Less Than NPS 4										
	B9.21	Circumferential Welds	Surface		No	151	38	10	12	19		4
	B9.30	Branch Pipe Connection Welds		25 % of All Circumferential Welds	No		5	3	1	1		
	B9.31	NPS 4 or Larger	Surface & Volumetric	25 % All Welds	No	6		2	-	-		
	B9.32	Less Than NPS 4	Surface	25 % All Welds	No	13		1	1	1		
	B9 40	Socket Welds	Surface	25 % of All Socket Welds	No	275	69	26	25	18		
Total Number of Exams Per Column						635	159	54	52	55		
Total Number of Exams Accumulated								54	106	159		
Required Accumulated Number Per Period								26 - 79	80 - 119	159		

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
B-K Welded Attachments For Vessels, Piping, Pumps, and Valves	B10.10	Welded Attachments, Pressure Vessels	Surface	Welded Attachments for 1 Vessel	No	9	5	1	4	-		
	B10.20	Welded Attachments, Piping	Surface	10% of Welded Attachments in Supports Selected Under IWF-2510	No	4	1	1	-	-		
	B10.30	Welded Attachments, Pumps	Surface	10% of Welded Attachments in Supports Selected Under IWF-2510	No	12	3	1	-	2		
	B10.40	Welded Attachments, Valves	Surface	10% of Welded Attachments in Supports Selected Under IWF-2510	No							
Total Number of Exams Per Column						25	9	3	4	2		
Total Number of Exams Accumulated								3	7	9		
Required Accumulated Number Per Period								1-3	4-6	9		

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
B-L-1 Pressure Retaining Welds in Pumps Casings	B12.10	Pump Casing Welds	Visual, VT-1	1 Pump	Permissible	4	1	1	-	-	-	
B-L-2 Pump Casings	B12.20	Pump Casing Internal Surfaces	Visual, VT-3	Internal Surfaces, If Disassembled	-	4	-	-	-	-	-	
B-M-1 Pressure Retaining Welds in Valve Bodies Less Than NPS 4	B12.30	Welds in Valves, Less than NPS	Surface	1 of Each Similar in Group	Permissible	24	7	2	3	2		
B-M-1 Pressure Retaining Welds in Valve Bodies Less Than NPS 4	B12 40	Welds in Valves, NPS 4 and Larger	Volumetric	1 of Each Similar in Group	Permissible	1	1	-	-	1		
Total Number of Exams Per Column						25	8	2	3	3		
Total Number of Exams Accumulated								2	5	8		
Required Accumulated Number Per Period								2-4	4 - 6	8		
B-M-2 Valve Bodies	B12.50	Valve Internal Surfaces, Exceeding NPS 4	Visual, VT-3	Internal Surfaces, If Disassembled	-	14	3	*	*	*		

* These exams will be scheduled around valve disassembly maintenance (one of each similar in group)

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
B-N-1 Interior of Reactor Vessel	B13.10	Vessel Interior	Visual, VT-3	Each Inspection Period	No	1	3	1	1	1		
B-N-2 Welded Core Support Structures and Interior Attachments to Reactor Vessels	B13.50	Interior Attachments Within Beltline Region in Reactor Vessel	Visual, VT-1	Accessible Welds	Permissible	6	6	-	-	6		
B-N-2 Welded Core Support Structures and Interior Attachments to Reactor Vessels	B13.60	Interior Attachments Beyond Beltline Region in Reactor Vessel	Visual, VT-3	Accessible Welds	Permissible	15	15	-	-	15		
B-N-3 Removable Core Support Structures	B13.70	Core Support Structure in Reactor Vessel	Visual, VT-3	Accessible Welds/Surfaces	Permissible	1	1	-	-	1		

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
B-O Pressure Retaining Welds in Control Rod Housings	B14.10	Welds in CRD Housing	Volumetric or Surface	10% Peripheral Housings (20 With 4 Welds Each)	Permissible	80	8	2	3	3		
* B-P All Pressure Retaining Components (Periodic)	B15.10	Reactor Vessel - System Leakage Test	Visual, VT-2	-	No	-	-	-	-	-		
	B15 20	Pressurizer - System Leakage Test	Visual, VT-2	-	No	-	-	-	-	-		
	B15.30	Steam Generator - System Leakage Test	Visual, VT-2	-	No	-	-	-	-	-		
	B15.50	Piping - System Leakage Test	Visual, VT-2	-	No	-	-	-	-	-		
	B15.60	Pumps - System Leakage Test	Visual, VT-2	-	No	-	-	-	-	-		
	B15.70	Valves - System Leakage Test	Visual, VT-2	-	No	-	-	-	-	-		
* All Exams Performed Under 3000 Series Surveillance Tests												
B-Q Steam Generator Tubing	B16.20	Steam Generator Tubing in U-Tube Design	Volumetric *	-	-	-	-	-	-	-		
* Volumetric Per Technical Specifications												

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 1 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
F-A Supports	F1.10A	Class 1 Piping Supports (One Direction Support)	Visual, VT-3	25% (of F1.10A, B & C)	No	30	7	3	-	4		
	F1.10B	Class 1 Piping Supports (Multi Directional Supports)	Visual, VT-3	25% (of F1.10A, B & C)	No	52	13	5	4	4		
	F1.10C	Class 1 Piping Supports (Spring Can Supports)	Visual, VT-3	25% (of F1.10A, B & C)	No	14	4	-	1	3		
	F1.40B	Supports Other Than Piping (Multi Directional, PRZ & SG)	Visual, VT-3	100% (One of Multiple)	No	9	4	1 (PRZ)	4 (SG)	-		
	F1 40C	Supports Other Than Piping (Spring Cans, RCP)	Visual, VT-3	100% (One of Multiple)	No	12	3	-	3	-		
Total Number of Exams Per Column						117	32	9	12	11		
Total number of exams accumulated.								9	21	32		
Required Accumulated Number Per Period								6-16	16-24	32		
* There are also 48 snubbers which are inspected under Technical Specifications 3.14 and ISTD Section of OM Code												

CLASS 1 SUPPORT EXAM DISTRIBUTION

	Type A Supports				Type B Supports				Type C Supports			
System	Total of Type	* % Required	** No. Required	Total to Examine	Total of Type	* % Required	** No. Required	Total to Examine	Total of Type	* % Required	** No. Required	Total to Examine
DL, LL, CL	0	-	-	-	16	30.8	4	4	0	-	-	-
PSG, PSS, PRL	10	33.3	2.3	2	7	13.4	1.7	2	12	85.7	3.4	3
AS, SI, HPH, SDC	20	66.7	4 7	5	29	55.8	7.3	7	2	14.3	0 6	1
Total of Type A, B, or C	30				52				14			
Total Required per Type/Interval	7				13				4			
* Total of type per system divided by total of type (A, B, or C) equals percent required per system per type.												
** Percent required per system times total required of type per interval equals number required per system per type.												
*** Due to the low number of supports on SDC and AS (6 total) they are added in with the HPSI (SI and HPH)												

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 2 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
C-A Pressure Retaining Welds in Pressure Vessels	C1.10	Shell Circumferential Welds (SG)	Volumetric	At Gross Structural Discontinuities	N/A	6	3	-	2 (Trans) 1 (Ext Ring)	-		
	C1.20	Head Circumferential Welds (SG, SDHX, RGHE)	Volumetric	Head-to-Shell Weld	N/A	8	3	1 RG	1 SG	1 SD		
	C1.30	Tubesheet-to-Shell Weld	Volumetric	Tube-to-Shell Weld	N/A	6	3	1 RG	1 SG	1 SD		
Total Number of Exams Per Column						20	9	2	5	2		
Total Number of Exams Accumulated								2	7*	9		
Required Accumulated Number Per Period								2 - 3	5 - 6	9		
* See NOTE under Category C-B												
C-B Pressure Retaining Nozzle Welds in Vessels	C2.21	Nozzle-to-Shell (Nozzle to Head or Nozzle to Nozzle) Weld. Reinforcing Plate, Greater than 1/2" Nominal Thickness (MS, FW, SDHX, RGHE)	Surface & Volumetric	All nozzles under C-F	N/A	12	6	2 RGHE	1 MS/ 1 FW	2 SDHX		
	C2.22	Nozzle Inside Radius Section (MS, FW)	Volumetric	All nozzles under C-F	N/A	4	2	-	1 MS/ 1 FW	-		
Total Number of Exams Per Column						16	8	2	4	2		
Total Number of Exams Accumulated								2	6*	8		
Required Accumulated Number Per Period								2	4 - 5	8		
* Due to cost of setting up and performing automated examinations on inner radius areas (Items C.21 & B3.140) & safe end welds (Item C5.51) as well as radiological concerns & staging for common exam areas (scaffolding & insulation R/R), all work on SG-B will be performed in the 2nd period.												
C-C Welded Attachments for Vessels, Piping, Pumps, and Valves	C3.10	Welded Attachments to Pressure Vessels (4 RGHE – 1") (4 SG trunions)	Surface	100% of required area of each welded attachment	N/A	8	4	1	2	1		
	C3 20	Welded Attachments to Piping	Surface	100% of required area of each welded attachment	N/A	21	13	4	4	5		
Total Number of Exams Per Column						29	17	5	6	6		
Total Number of Exams Accumulated								5	11	17		
Required Accumulated Number Per Period								3 - 5	9 - 11	17		

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 2 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
C-D Pressure Retaining Bolting Greater Than 2 in. in Diameter	C4.10	Pressure Vessel Bolting and Studs	Volumetric	None in Program	–	–	–	–	–	–		
	C4.20	Piping Bolting and Studs	Volumetric	None in Program	–	–	–	–	–	–		
	C4 30	Pumps Bolting and Studs	Volumetric	None in Program	–	–	–	–	–	–		
	C4 40	Valves Bolting and Studs	Volumetric	None in Program	–	–	–	–	–	–		
C-F-1 Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping	C5.11	Circumferential Welds in Austenitic Stainless Steel or High Alloy Piping ≥ 3/8" Nominal Wall Thickness for Piping > NPS 4	Surface & Volumetric	7.5% but not less than 28 welds	N/A	364	47	16	11	20		
	C5.11N	Circumferential Welds in Austenitic Stainless Steel or High Alloy Piping < 3/8" Nominal Wall Thickness for Piping > NPS 4 (272)	-	-	N/A	** 272	0	-	-	-		
	C5.21	Circumferential Welds in Austenitic Stainless Steel or High Alloy Piping 1/5" Nominal Wall Thickness for Piping ≥ NPS 2 and ≤ 4 NPS	Surface & Volumetric	7.5% but not less than 28 welds	N/A	158	12	-	4	8		
	C5.30	Socket Welds	Surface	7.5% but not less than 28 welds	N/A	480	36	13	15	8		
	C5.41	Pipe Branch Connections of Branch Piping NPS ≥ 2, Circumferential Weld	Surface	7.5% but not less than 28 welds	N/A	9	2	-	-	2		
Total Number of Exams Per Column						1283	97	29	30	38		
Total Number of Exams Accumulated								29	59	97		
Required Accumulated Number Per Period								16 - 32	49 - 64	97		

* Longseam welds are examined with selected intersecting circumferential welds.

** Thin wall piping welds not required to be inspected, but included in the total weld count to which the 7.5% sampling rate is applied.

C-F-1 EXAMINATIONS SUMMARY

System	Size	Item No.	Thickness	Total Welds	Terminal Ends	Structural Discontinuities	% Required	Req. Total per System/Size
LPSI	14	N/A	0.250"	23	4	21	0	0
LPSI	12	C5.11	0.375"	67	2	65	73.63	14 (1 Terminal End)
LPSI	10	N/A	0.365"	47	3	44	0	0
LPSI	8	N/A	0.322"	33	2	34	0	0
LPH	10	N/A	0.365"	13	0	13	0	0
LPH	6	N/A	0.280"	42	0	42	0	0
LPH	12	C5.11	0.375	24	0	21	26.37	5
LPSI Sub-Total				249(91)	11	240	19.39	19 (1 Terminal End)
CSS	12	N/A	0.180"	19	3	14	0	0
CSS	12	C5.11	0.375"	91	4	88	96.81	12 (1 Terminal End)
CSS	12	C5.41	0.375"	3	0	3	3.19	1
CSS	8	N/A	0.322"	45	6	39	0	0
CSS	6	N/A	0.280"	16	0	16	0	0
CSS Sub-Total				174 (94)	13	160	13.55	13 (1 Terminal End)
SDC	12	C5.11	0.375	100	2	96	100.00	7
SDC Sub-Total				100 (100)	2	96	7.79	7
SI	24	C5.11	0.375"	41	0	41	49.40	4
SI	20	C5.11	0.375"	13	0	13	15.66	1
SI	6	C5.11	0.719"	14	0	14	16.87	2
SI	6	C5.11	0.432"	15	0	15	18.07	2
HPSI (Add to 6" SI)	8	N/A	0.322"	8	1	7	0	0
HPSI (Add to 6" SI)	6	N/A	0.280"	26	4	22	0	0
HPSI Sub-Total				117 (83)	5	112	9.11	9

C-F-1 EXAMINATIONS SUMMARY

System	Size	Item No.	Thickness	Total Welds	Terminal Ends	Structural Discontinuities	% Required	Req. Total per System/Size
CH	4	C5.21	0.531"	152	7	148	23.6	11
CH	4	C5.41	0.531"	6	0	6	0.93	1
CH	2.5	C5.21	0.375"	6	1	5	0.93	1
CH	2	C5.30	0.344"	480	15	463	74.54	36 (2 Terminal Ends)
CH Sub-Total				644 (644)	23	622	50.16	49 (2 Terminal Ends)
Column Totals				1284	54	1230	4.21% Terminal Ends 95.79% Structural Discontinuities	4 Terminal Ends 93 Structural Discontinuities

Step 1: Total number of welds (1284) times 7.5% equals total number of C-F-1 welds required.

Step 2: The sub-total of each system (shown under "Total Welds") divided by grand total of welds (1284) equals required percentage per system (shown on system sub-total line under % require:)

Step 3: Total number of welds (97) times % required per system (shown on system sub-total line under "% required") equals required total per system (shown on system sub-total line under "required total per system/size).

Step 4: Within a system, the total welds per size divided by system sub-total of welds required. (shown with parenthesis under total of welds at system subtotal) equals required percentage per system per size (shown under "% required")

NOTE: These numbers add up to 100% per system.

Step 5: % required per size (shown under "% required") times total required per sub-system (shown on system sub-total under "required total per system/size") equals the number of welds required by the code for each line shown on the table with an Item number.

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 2 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
C-F-2 Pressure Retaining Welds in Carbon or Low Alloy Steel Piping	C5.51	Circumferential Welds in Carbon or Low Alloy Steel Piping ≥ 3/8" Nominal Wall Thickness for Piping > NPS 4	Volumetric & Surface	7.5% but not less than 28 welds	N/A	78	24	7	11	6		
	C5 51N	Circumferential Welds in Carbon or Low Alloy Steel Piping < 3/8" Nominal Wall Thickness for Piping > NPS 4	-	-	N/A	** 359	9	-	2	7		
	C5.81	Pipe Branch Connections of Branch Piping NPS ≥ 2, Circumferential Weld	Surface	7.5% but not less than 28 welds	N/A	8	1	1				
Total Number of Exams Per Column						445	34	8	13	13		
Total Number of Exams Accumulated								8	21	34		
Required Accumulated Number Per Period								6 - 11	17 - 22	34		

* Longseam welds are examined with selected intersecting circumferential welds.

** Thin wall piping welds not required to be inspected, but included in the total weld count to which the 7.5% sampling rate is applied.

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 2 Exams

Inservice Inspection Program Summary Table

System	Size	Thickness	Total Welds	Not Accessible	Accessible	Terminal Ends	Structural Discontinuities	% Required	Req. Total per System/Size
Main Steam	6"	0.432"	16	0	16	0	16	11.7	4
Main Steam (includes 8 branches)	28"	1.000"	42	18	24	2	40	35.3	12 (1 Terminal End)
Feedwater	16"	0.844"	28	6	22	2	26	26.5	9 (1 Terminal End)
Auxiliary Cooling	10"	0.365"	118	-	118	12	106	26.5	9
Column Totals			204	24	180	16	188	100	34 (2 Terminal Ends)

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 2 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
C-G Pressure Retaining Welds in Pumps and Valves	C6.20	Pressure Retaining Welds in Valve Bodies	Surface	All Under C-F	N/A	1	1	-	-	1		
Total Number of Exams Per Column						1	1	-	-	1		
Total Number of Exams Accumulated								-	-	1		
Required Accumulated Number Per Period												
C-H All Pressure Retaining Components	C7.10	Pressure Retaining Components - System Leakage Test	* Visual, VT-2	-	-	-	-	-	-	-		
*All pressure test examinations performed under OPPD Technical Specification 3.3(1)a.												

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 2 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
F-A Supports	F1.20A	Class 2 Piping Supports (One Direction Support)	Visual – VT3	15% (of type A, B, and C)	N/A	210	32	11	11	10		
	F1.20B	Class 2 Piping Supports (Multi Directional Supports)	Visual – VT3	15% (of type A, B, and C)	N/A	215	32	12	8	12		
	F1.20C	Class 2 Piping Supports (Spring Can Supports)	Visual – VT3	15% (of type A, B, and C)	N/A	58	9	1	5	3		
	F1.40B	Supports Other Than Piping (Multi Directional, 3 CSS Pumps, 2 LPSI Pumps)	Visual – VT3	100% (one of multiple)	N/A	10	4	-	-	4		
Total Number of Exams Per Column						493	77	24	24	29		
Total Number of Exams Accumulated								24	48	77		
Required Accumulated Number Per Period								13 - 26	39 - 51	77		
** There are also 162 snubbers which are inspected under Technical Specifications 3.14 and ISTD Section of OM Code.												

CLASS 2 SUPPORT EXAM DISTRIBUTION

	Type A Supports				Type B Supports				Type C Supports			
System	Total of Type	* % Required	** No. Required	Total to Examine	Total of Type	* % Required	** No. Required	Total to Examine	Total of Type	* % Required	** No. Required	Total to Examine
MS	2	1	0 3	0	4	1.9	0.6	1	9	15.5	1.4	1
FW	2	1	0 3	0	1	0 5	0.2	0	7	12.1	1.1	1
LPH/LPSI	39	18 6	6	6	10	4.7	1 5	2	8	13.8	1.2	1
SDC	15	7.1	2 3	2	6	2 8	0 9	1	0	-	-	-
CSS	21	10	3 2	3	3	1.4	0 4	0	13	22 4	2	2
SI/HPSI	17	8.1	2.6	3	2	0.9	0 3	0	6	10.3	0.9	1
AC	43	20.5	6 6	7	70	32 6	10.4	10	10	17.2	1.5	2
CH	71	33.8	10.8	11	119	55.3	17.7	18	5	8 6	0.8	1
Total of type A, B, C	210				215				58			
Total required per type/interval	32				32				9			
* Total of type per system divided by total of type (A, B, or C) equals percent required per system per type												
** Percent required per system times total required of type per interval equals number required per system per type												

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 3 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
D-A Welded Attachments for Vessels, Piping, Pumps, and Valves	D1.10	Welded Attachments in Vessels	Visual, VT-1	100% of required area of each welded attachment	N/A	0	0	-	-	-		
	D1 20	Welded Attachments in Piping	Visual, VT-1	100% of required area of each welded attachment	N/A	65	7	2	3	2		
	D1.30	Welded Attachments in Pumps	Visual, VT-1	100% of required area of each welded attachment	N/A	2	1	1	-	-		
	D1.40	Welded Attachments in Valves	Visual, VT-1	100% of required area of each welded attachment	N/A	4	1	1	-	-		
Total Number of Exams Per Column						65	9	4	3	2		
Total Number of Exams Accumulated								4	7	9		
Required Accumulated Number Per Period								1-4	4-7	9		
D-B All Pressure Retaining Components	D2.10	Pressure Retaining Components - System Leakage Test	* Visual, VT-2	-	-	-	-	-	-	-		
	D2.10	Pressure Retaining Components System Hydrostatic Test	* Visual, VT-2	-	-	-	-	-	-	-		

*All pressure test examinations performed under OPPD Technical Specification 3.3(1)a.

Fort Calhoun Station Fourth Interval
ISI Program Plan
Class 3 Exams

Inservice Inspection Program Summary Table

Examination Category	Item Number	Description	Exam Method	Required Exams	Deferral to End	Total Number	Number Req.	Number 1st period	Number 2nd period	Number 3rd period	Relief Request Number	Notes
F-A Supports	F1.30A	Class 3 Piping Supports (One Direction Support)	Visual – VT3	10% (of type A, B, and C)	N/A	270	27	9	9	9		
	F1.30B	Class 3 Piping Supports (Multi Directional Supports)	Visual – VT3	10% (of type A, B, and C)	N/A	232	24	8	8	8		
	F1.30C	Class 2 Piping Supports (Spring Can Supports)	Visual – VT3	10% (of type A, B, and C)	N/A	21	3	1	1	1		
	F1.40	Supports Other Than Piping (Multi Directional, 3 CSS Pumps, 2 LPSI Pumps)	Visual – VT3	10% (of type A, B, and C)	N/A	4	1	1	-	-		
Total Number of Exams Per Column						523	55	19	18	18		
Total Number of Exams Accumulated									37	55		
Required Accumulated Number Per Period								9-19	28-37	55		

CLASS 3 SUPPORT EXAM DISTRIBUTION

	Type A Supports				Type B Supports				Type C Supports			
System	Total of Type	* % Required	** No. Required	Total to Examine	Total of Type	* % Required	** No. Required	Total to Examine	Total of Type	* % Required	** No. Required	Total to Examine
AFW (MS & FW)	72	26 6	7.1	7	82	37.1	8.2	8	17	60.7	1.8	2
AC	115	42 4	11 4	11	72	32 6	7.2	8	2	7.1	0.2	0
RW	84	30.9	8.3	9	67	30 3	6.7	7	9	32.1	1.0	1
Total of Type A, B or C	270				232				21			
Total Required per Type/Interval	27				24				3			

* Total of type per system divided by total of type (A, B, or C) equals percent required per system per type.

** Percent required per system times total required of type per interval equals number required per system per type.

7.0 REQUESTS FOR RELIEF FROM ASME SECTION XI REQUIREMENTS

This section contains relief requests written pursuant to the requirements 10 CFR 50.55a for situations applicable ASME Section XI Code requirements cannot be met.

The following NRC guidance was employed to determine the correct 10 CFR 50.55a paragraph citing for Fort Calhoun Station relief requests.

10 CFR 50.55a(a)(3)(i): Cited in relief requests when alternatives to the Section XI requirements, which provide an acceptable level of quality and safety, are proposed. Examples are relief requests, which propose alternative NDE methods and/or examination frequency.

10 CFR 50.55a(a)(3)(ii): Cited in relief requests when compliance with the Section XI requirements is deemed to be a hardship or unusual difficulty without a compensating increase in the level of quality and safety. Examples of hardship and/or unusual difficulty include, but are not limited to, excessive radiation exposure, disassembly of components solely to provide access for examinations, and development of sophisticated tooling that would result in only minimal increases in examination coverage.

10 CFR 50.55a(g)(5)(iii): Cited in relief requests when conformance with Section XI requirements is deemed impractical. Examples of impractical requirements are situations where the component would have to be redesigned, or replaced to enable the required inspection to be performed.

The following relief requests contained in Table 7.0 are subject to change throughout the inspection interval.

Fort Calhoun Station Fourth Interval
ISI Program Plan

TABLE 7.0
ISI PROGRAM RELIEF REQUEST INDEX

Relief Request	Summary	Revision
RR - 1	Limited Examinations	0
RR - 2	Use of Code Case N498-1	0
RR – 3	Use of Code Case N648-1	0
RR – 4	Use of Code Case N508-1	0
RR – 5	Use of Code Case N568	0
RR - 6	Removal Of Insulation From Bolted Connections On Borated Systems	0
RR - 7	Removal of Bolts At Bolted Connections	0
RR - 8	Use of Alternative to Appendix VIII, Supplement 10	0
RR - 9	Use of Alternative to Appendix VIII, (Proposed) Supplement 14	0

ISI Relief Request No. 1
RR-1

Limited Examinations

System: Various **Class 1 and 2**
Category: Various **Item No.: Various**

IMPRACTICAL EXAMINATION REQUIREMENTS:

ASME Section XI Code requires full examination inservice inspection (ISI) of components per Tables IWB and IWC 2500-1. Regulatory Guide 1.147, Revision 12 endorses Code Case N460, "Alternative Examination Coverage for Class 1 and 2 Welds." This Code Case allows greater than 90% coverage of the required volume to meet essentially the 100% requirement of the Code.

Fort Calhoun Stations construction permit was issued in 1967. The facility was designed and constructed with limited accessibility due to component configurations and/or physical barriers for which 100% examination coverage was not achievable on some ISI components examined for the 3rd ten year inspection interval.

BASIS FOR RELIEF

The following 10 CFR 50.55a paragraphs apply to the inservice examination in accordance with the ASME Section XI Code:

> 50.55a(g)1: For boiling and pressurized water – cooled nuclear power facility whose construction permit was issued prior to January 1, 1971, components (including supports) must meet the requirements of paragraphs (g)(4) and (5) of this section to the extent practical.
>
> 50.55a(g)(4): Throughout the service life of a boiling water or pressurized water-cooled nuclear power facility, components (including supports) which are classified as ASME Code Class 1, Class 2 and Class 3 must meet the requirements, except design and access provisions and preservice examination requirements, set forth in Section XI editions of ASME Boiler and Pressure Vessel Code....."to the extent practical within the limitations of design, geometry and materials of construction of the components".
>
> 50.55a(g)(5)(iv): Where an examination requirement of the Code or addenda is determined to be impractical by the licensee and is not included in the revised inservice inspection program as permitted by paragraph (g)(4) of this section, the basis must be demonstrated to the satisfaction of the Commission.....

Fort Calhoun was designed and constructed prior to the development of Section XI and therefore design for inspectability and inspection coverage is not in many cases, sufficient to satisfying the current Code requirements. Limitations are primarily due to obstructions, interference or weld joint configuration. The following is a list of components where less than the required 90% coverage was obtained:

Fort Calhoun Station Fourth Interval
ISI Program Plan

YEAR	COMPONENT ID	CAUSE OF LIMITATION	COVERAGE %	ISO #	CATEGORY	ITEM	CONFIGURATION	SYSTEM
1995	RHE-N-14	SPUN CAST, ONE DIRECTION	50	B-43	C-B	C2.21	NOZZLE TO SHELL	REGEN. HEAT EXCHANGER
1995	RHE-N-15	SPUN CAST, ONE DIRECTION	50	B-43	C-B	C2.21	SHELL TO NOZZLE	REGEN. HEAT EXCHANGER
1996	RPVCH-HF-1	SEISMIC SKIRT AND SUPPORT LUGS	77.9	A-02A	B-A	B1.40	HEAD TO FLANGE	REACTOR VESSEL
1996	MRC-1/14A	SPUN CAST, ONE SIDED	50	A-08	B-J	B9.31	PIPE TO BRANCH CONNECTION	COLD LEG (SAFETY INJ)
1996	MRC-1/03B	SPUN CAST, ONE SIDED	50	A-08	B-J	B9.31	PIPE TO BRANCH CONNECTION	HOT LEG (PRES. SURGE)
1996	MRC-1/06	SPUN CAST, ELBOW GEOMETRY	83	A-08	B-F	B5.70	SAFE END TO NOZZLE	HOT LEG
1996	MRC-1-07	SPUN CAST, SAFE END GEOMETRY	73	A-08	B-F	B5.70	NOZZLE TO SAFE END	COLD LEG
1996	MRC-1-19	SPUN CAST, SAFE END GEOMETRY	62	A-08	B-F	B5.70	NOZZLE TO SAFE END	COLD LEG
1996	16-FW-2001/11	3.2" VENT LINE NEXT TO THE WELD	99	B-07	C-F-2	C5.51	ELBOW TO SAFE END	FEED WATER
1999	SG-2-N-1	NOZZLE GEOMETRY	72.4	A-06	B-D	B3.130	SG LOWER HEAD TO NOZZLE	STEAM GENERATOR
1999	SG-2-N-3	NOZZLE GEOMETRY	72.4	A-06	B-D	B3.130	SG LOWER HEAD TO NOZZLE	STEAM GENERATOR
1999	MRC-2/06	SPUN CAST GEOMETRY	76	A-09	B-F	B5.70	SAFE END TO SG NOZZLE	HOT LEG
1999	MRC-2/08	SPUN CAST GEOMETRY	54.5	A-09	B-J	B9.11	SAFE END TO ELBOW	COLD LEG
1999	MRC-2/20	SPUN CAST GEOMETRY	54.5	A-09	B-J	B9.11	SAFE END TO ELBOW	COLD LEG
2001	6-SI-22/03	VALVE CONFIGURATION & SOCKOLET @TDC	50	A-28	B-J	B9.11	VALVE TO ELBOW	SAFETY INJECTION

Fort Calhoun Station Fourth Interval
ISI Program Plan

YEAR	COMPONENT ID	CAUSE OF LIMITATION	COVERAGE %	ISO #	CATEGORY	ITEM	CONFIGURATION	SYSTEM
2001	6-SI-14/14	TEE CONFIGURATION	47.1	A-27	B-J	B9.11	PIPE TO TEE	SAFETY INJECTION
2001	PRZ-SC-5-403	INSULATION SUPPORTS	77	A-03	B-B	B2.11	UPPER HEAD TO SHELL	PRESSURIZER
2001	PRZ-SL-2-403A	INSULATION SUPPORTS	66	A-03	B-B	B2.12	UPPER SHELL LONG SEAM	PRESSURIZER
2001	RHE-BC-8	NOZZLE CONFIGURATION	50	A-07	B-D	B3.150	BRANCH CONNECTION	REGENERATIVE HEAT EXCHANGER
2001	RHE-N-6	NOZZLE CONFIGURATION	46 4	A-07	B-D	B3.150	LETDOWN INLET NOZZLE	REGENERATIVE HEAT EXCHANGER
2001	6-SI-2002/15	FLANGE CONFIGURATION	41.7	B-42	C-F-1	C5.11	ELBOW TO FLANGE	SAFETY INJECTION
2001	6-MS-2005/02	FLANGE CONFIGURATION	41	B-06	C-F-2	C5.51	ELBOW TO FLANGE	MAIN STEAM
2001	6-MS-2006/02	FLANGE CONFIGURATION	48	B-06	C-F-2	C5.51	ELBOW TO FLANGE	MAIN STEAM
2002		TO BE DETERMINED						

ADDITIONAL MEANS OF ESTABLISHING INTEGRITY

In addition, hydrostatic pressure tests with an accompanying VT-2 examination are performed during the regular inspection interval to ensure the piping system is capable of maintaining pressure integrity. System integrity is monitored continuously during normal operation by many direct and indirect methods, e.g., containment air and radiation monitoring, containment leakage detection and monitoring, containment temperature monitoring and operator walkdowns.

ALTERNATE EXAMINATION

None, the nature of the limitations have been noted on the ISI examination NDE reports. FCS will continue to document these limitations.

All inservice inspections performed at FCS have been done to the greatest extent practical ensuring the greatest possible examination coverage within the limitations of design, geometry, and materials of original construction of the facility. FCS will continue to employee the most current inspection techniques available to obtain the optimum examination results.

Fort Calhoun Station Fourth Interval
ISI Program Plan

ISI Relief Request No. 2
RR-2

Use of Code Case N498-1

System: Various | **Class 3**
Category: D-B | **Item Nos:Various**

ALTERNATIVE EXAMINATION REQUIREMENTS:

Pursuant to 10 CFR50.55a (a)(3)(ii), Fort Calhoun Station proposes to use Code Case N-498-1, titled 'Alternative Rules for 10-Year Hydrostatic Testing for Class 1, 2, and 3 Systems, Section XI, Division1', for Class 3 components

The NRC has approved the concept of performing pressure tests at nominal operating pressure in lieu of hydrostatic test pressure. ASME Code Case N-498-1 has been approved for use in NRC Regulatory Guide 1.147, without any additional conditions

However, the Applicability Index found within Supplement 12 of the 1998 Edition of Nuclear Code Cases, limits the applicability of this case to the 1992 Edition, including the 1993 Addenda. The basis for the applicability limitation was the issuance of subsequent revisions to the case.

Considerable effort in time and radiation exposure is incurred while conducting hydrostatic pressure tests. A significant effort is necessary (depending on the system and plant configuration) to temporarily remove or disable code safety and/or relief valves to meet test pressure requirements. The safety assurance provided by a slight increase in pressure during a system hydrostatic pressure test are offset or negated by having to gag or remove Code safety and/or relief valves, placing the system in an off normal state, erecting temporary supports, possible extension of refueling outages, and resource requirements to set up testing with special equipment and gages

Leakage in Class 3 systems is generally due to Flow Accelerated Corrosion (FAC), microbiological-induced corrosion (MIC), and general corrosion. FCS has sufficient programs in place for the prevention, detection, and evaluation of FAC and MIC. Leakage from general corrosion is readily apparent to inspectors when performing VT-2 visual examinations during system pressure tests.

FCS experience has demonstrated that previously identified leaks are typically not discovered as a result of hydrostatic test pressure propagating a pre-existing flaw through wall. Leaks in most cases are found when the system is at nominal operating pressure

Relief was previously granted to utilize Code Case N-498-1 at Salem Generating Station, Units 1 & 2, as well as for Hope Creek Generating Station. Reference NRC Safety Evaluation for Inservice Inspection Requests for Relief, TAC Nos: M91036, M91037 & M91038, respectively.

ISI Relief Request No. 3
RR-3

Use of Code Case N648-1

System: **Reactor Vessel** **Class 1**
Category: **B-D** **Item No.: B3.100**

ALTERNATIVE EXAMINATION REQUIREMENTS:

In accordance with 10 CFR 50.55a(a)(3)(i), FCS is requesting relief from inservice inspection requirements of the 1998 Edition with the 2000 Addenda, Section XI of the ASME Boiler and Pressure Vessel Code for the volumetric examination of Class 1, reactor pressure vessel (RPV) and RPV head nozzles inner radius sections. The examination requirement is for a volumetric examination of ASME Section XI, Examination Category B-D, "Full Penetration Welded Nozzles in Vessels," Item No. B3.100, "Reactor Vessel Nozzle Inner Radius Section.

This request for relief applies to the FCS Reactor Pressure Vessel and RPV Head

FCS proposes to implement alternate visual (VT-1) requirements consistent with ASME Code Case N-648-1, "Alternative Requirements for Inner Radius Examination of Class 1 Reactor Vessel Nozzles." FCS recognizes that the original publication of Code Case N-648 references a subsurface flaw acceptance criteria table that does not exist (i.e., Table IWB-3513-3, which is a typographical error). Code Case N-648 was revised to correct the error and references Table IWB-3510-3, the correct applicable acceptance criteria. In addition, an editorial clarification was added to N-648 to provide guidance for determining component thickness to use with this table.

In summary FCS's proposed alternative examinations are as follows: (1) For the Reactor pressure vessel nozzle inner radius sections, FCS will perform an enhanced remote visual (VT-1) examination, capable of a 1-mil wire resolution, in accordance with ASME Section XI, VT-1 requirements, (2) For the RPV head nozzles, FCS will perform an enhanced direct visual (VT-1) examination of the nozzle inner radius sections, capable of a 1-mil wire resolution, in accordance with ASME Section XI VT-1 requirements. (Note: All RPV ISI vendors doing NDE have this capability to support the BWRVIP requirements for BWRs so it can also be used on a PWR)

ISI Relief Request No. 4
RR-4

Use of Code Case N508-1

System: Various **Class: 1, 2 and 3**
Category: Various **Item No.: Various**

COMPONENT IDENTIFICATION
ASME Class 1, 2, and 3 Snubbers and Pressure Relief Devices

ALTERNATIVE EXAMINATION REQUIREMENTS:

Pursuant to 10 CFR 50.55a(a)(3)(i), relief is requested on the basis that the proposed alternative provides an acceptable level of quality and safety.

FCS requests the use of Code Case N-508-1, titled 'Rotation of Serviced Snubbers and Pressure Relief Valves for the Purpose of Testing, Section XI, Division 1.

Adoption of Code Case N508-1 will eliminate burdensome administrative controls and documentation requirements associated with an ASME Section XI replacement incurred solely from satisfying the testing requirements of snubbers and pressure relief devices.

Currently, when a snubber or relief device is removed from service for the purposes of testing the following two options are available:

1. Maintain the system or portion of the system in a degraded condition while complying with the FCS Technical Specification, until the removed component is tested, refurbished if required, and reinstalled.

2. Replace the item being tested with a "like" item, and test the removed component at a later date.

Per ASME Section XI, the rotation of snubbers and pressure relief devices, as addressed in the second option, is required to be treated, as Code replacement required to meet IWA-4000. This requires the use of Replacement Programs, Replacement Plans, suitability evaluations, review and concurrence by the ANII, and use of NIS-2 forms or other Section XI documentation to record the replacement. Such controls are appropriate when components are replaced for the purpose of design changes and failures, but are excessive solely for the removal and installation of snubbers and pressure relief devices for the purposes of testing. Code Case N508-1 addresses the inconsistencies within the

Code. Due to nine provisions within the Code Case, the alternative criteria eliminate burdensome administrative controls and documentation requirements associated with an ASME Section XI replacement. All other aspects of the replacement such as design, manufacture, ASME Section XI pressure testing requirements, operational limits and settings are maintained. In addition, the implementation of Code Case N508-1 does not change the testing requirements provided in the FCS Technical Specifications.

Code Case N508-1 does not alter any Section XI requirements if a removed component requires any repair or replacement of Code items or parts. As required by paragraph (i) of the Code Case, repair or replacement of the removed component, when required, shall be performed in accordance with IWA-4000 as applicable. Because of this requirement in the Code Case then the required administrative controls and documentation would be generated.

FCS also proposes to apply the requirements of Code Case N-508-1 to snubbers that are rotated from stock for the purpose of replacing snubbers that are at or near the end of their seal service life.

Relief was previously granted to utilize Code Case N-508-1 at Duane Arnold Energy Center, as well as for the Vogtle Electric Generating Plant.

ISI Relief Request No. 5
RR-5

Use of Code Case N568

System: **Various**
Category: **B-K-1**
C-H
D-A

Class 1, 2 and 3
Item No.: Various

COMPONENT IDENTIFICATION
ASME Class 1, 2, and 3 Integrally Welded Attachments

ALTERNATIVE EXAMINATION REQUIREMENTS:

Pursuant to 10 CFR 50.55a(a)(3)(i), relief is requested on the basis that the proposed alternative provides an acceptable level of quality and safety.

FCS requests the use of Code Case N-568, entitled 'Alternative Examination Requirements for Welded Attachments, Section XI, Division 1' for examination of welded attachments obstructed by a component support or a portion of a component support.

Use of this Code Case will permit the extent of examination to be limited to the accessible portion of the welded attachment without submittal of an application for relief per the criteria of 10 CFR 50.55a(g)(5)(iv) due to examination limitations identified during the course of the interval that is obstructed by a component support or a portion of a component support for each welded attachment.

Further, use of this case will clarify that disassembly of the component support or a portion of a component support is not required. This will permit the reduction of resource requirements for scaffolding, insulation removal, support disassembly and reassembly, re-examination of the support that was disassembled solely for the purpose of examination of the inaccessible portions of the welded attachment, reapplication of insulation materials, and removal of scaffolding. Additionally, reductions of radiation dose absorbed, and potential outage duration could be realized.

ISI Relief Request No. 6
RR-6

Removal Of Insulation From Bolted Connections On Borated Systems

System: Various **Class 1, 2 and 3**
Category: Various **Item No.: Various**

COMPONENT IDENTIFICATION

ASME Class 1, 2, and 3 Bolted Connections in Systems Borated for the Purpose of Controlling Reactivity

CODE REQUIREMENT

Paragraph IWA-5242(a) states, "For systems borated for the purpose of controlling reactivity, insulation shall be removed from pressure retaining bolted connections for VT-2 visual examination.

BASIS FOR RELIEF

Pursuant to 10 CFR 50.55a(a)(3)(i), relief is requested on the basis that the proposed alternative would provide an acceptable level of quality and safety. Specifically, relief is requested from the requirement to remove insulation at bolted connections for VT-2 examination coincident with system pressure testing at normal operating pressure.

The following FCS material control and procedure control programs, in conjunction with the Proposed Alternative Provisions described below, provide an acceptable level of quality and safety for bolted connections in systems borated for the purpose of controlling reactivity.

- In response to NRC Generic Letter 88-05, FCS has established a program to inspect all boric acid leaks discovered in the containment building and to evaluate the impact of those leaks on carbon steel or low alloy steel components. Any evidence of leakage, including dry boric acid crystals or residue, is inspected and evaluated regardless of ASME class, location, or whether the leak was discovered at power or during an outage. Issues such as the following are considered in the inspection and evaluation:

  1. evidence of corrosion or metal degradation,
  2. effect the leak may have on the pressure boundary,

3. possibility of boric acid traveling along the inside of insulation on piping, and
4. possibility of dripping or spraying on other components.

Based on this evaluation, OPPD initiates appropriate corrective actions to prevent recurrence of the leak and to repair, if necessary, any degraded materials or components. These evaluations ensure issues related to leakage on borated systems are addressed, including corrective actions necessary to eliminate the source of leakage.

- The ASME Section XI Code, 1998 Edition 2000 Addenda, Tables IWC-2500-1 and IWD-2500-1, presently prescribe the performance of ASME Class 2 and 3 pressure tests (visual VT-2) on a frequency of once per inservice inspection (ISI) period. The Fort Calhoun Station maintains a surveillance test schedule that controls the implementation of examinations to prescribed time limits. Using the surveillance test schedule, the examination of borated system bolted connections will be performed at a 36-month frequency. This 36-month frequency will provide a level of quality and safety that exceeds that of the ASME Section XI Code for ASME Class 2 and 3 bolted connections since the examinations will be completed more frequently than required.

- The ASME Section XI Code, 1998 Edition 2000 Addenda, Table IWB-2500-1, presently prescribes the performance of ASME Class 1 pressure tests (visual VT-2) on a frequency of once per refueling cycle. FCS will perform the examination of ASME Class 1 borated system bolted connections at this frequency, thereby maintaining a consistent level of quality and safety as that prescribed by the ASME Section XI Code.

  The following information is not directly related to the basis for relief [10CFRS0.55a(a)(3)(i)]; however, it details hardships associated with performing the VT-2 examinations of borated system bolted connections at normal operating pressure. The issues are provided with this relief request as additional supporting information.

- Code Class 1, 2, and 3 systems borated for the purpose of controlling reactivity are extensive systems covering many areas and elevations. Scaffolding is required to access many of the bolted connections. In addition, many of the bolted connections are located in difficult to access areas and in medium to high-level radiation areas. The VT-2 examinations of Class 1 systems, primarily the reactor coolant system (RCS) piping and components that are located inside containment, are performed at plant Mode 3. As required by IWB-5221, the RCS is at a normal operating pressure of 2100 psia. A significant portion of the Class 2 and 3 piping is also located in containment and is VT-2 examined coincident with the Class 1 piping systems at plant Mode 3. Insulation removal and the construction of scaffolding at the time of system re-pressurization lengthen the refueling outage and increases personnel exposure,

radwaste, and financial costs.

- Performance of a VT-2 examination, removal/reinstallation of insulation, and assembly/disassembly of scaffolding at bolted connections under these operating conditions also present significant personnel safety concerns. At Fort Calhoun Station, the Class 1 VT-2 examination, coincident with Class 2 and 3 examinations, is a refueling outage critical path activity with duration in the Fort Calhoun Station refueling outage schedule of 4 hours. The activities associated with erecting scaffolding to all of the bolted connection components and inspecting at operating pressure is estimated to add 2 days to this critical path activity. Therefore, in addition to personnel safety and radiological concerns, the additional insulation/scaffolding/inspection work is likely to increase the duration of the refueling outage and delay unit startup.

PROPOSED ALTERNATIVE

For ASME Class 1 systems that are borated for the purpose of controlling reactivity, a system inservice leakage test shall be performed in accordance with the frequency required in Table IWB-2500 without the removal of insulation from the bolted connections. The requirements for inservice leak tests shall be augmented with a minimum 4-hour hold time at normal system operating pressure prior to the VT-2 visual examination to allow for leakage propagation from the insulation. Additionally, the insulation shall be removed from insulated Class 1 bolted connections and a VT-2 examination shall be conducted, with the system depressurized. The frequency for these depressurized VT-2 inspections shall be in accordance with the system examination frequencies specified in Table IWB-2500, Category B-P (each refueling outage). The proposed alternative is consistent with the requirements of Code Case N-533 that was approved for use at Fort Calhoun Station on September 18, 1996. These inspections shall be implemented through the application of the surveillance test program to assure they are performed within the prescribed time periods.

For ASME Class 2 and 3 systems inside/outside of containment that are borated for the purpose of controlling reactivity, a system pressure test shall be performed in accordance with the frequency required in Table IWC-2500 or IWD-2500 as applicable, without the removal of insulation from the bolted connections. The requirements of system pressure tests shall be augmented with a 4-hour hold time at system normal operating pressure prior to the VT-2 examination to allow for leakage propagation from the insulation. Additionally, the insulation shall be removed from insulated Class 2 and 3 bolted connections and a VT-2 examination shall be conducted at an increased frequency, with the system depressurized. VT-2 examinations on each component will be performed at a frequency of approximately 36-months to coincide with plant refueling outages, not allowing the period between inspections on individual components to exceed 45-months. This increased frequency for individual components is more restrictive than the "periodic

frequency" prescribed by ASME Section XI for Class 2 and 3 systems described in Table IWC-2500 or IWD-2500.

These inspections shall be implemented through the application of the surveillance test program to assure they are performed within the prescribed time period. Regardless of whether a component is scheduled for examination or not, any evidence of leakage from insulated or un-insulated components will result in evaluations for corrective measures in accordance with IWA-5250 (as modified for Fort Calhoun Station Unit No. 1 by this submittal).

This relief was previously granted for use at FCS. Reference NRC Safety Evaluation, Evaluation of third 10-Year Inservice Inspection Interval Requests for Relief, TAC NO. MA4968, dated September 2, 1999.

PERIOD FOR WHICH RELIEF IS REQUESTED

Relief is requested for the fourth 10-year inspection interval at Fort Calhoun Station.

ISI Relief Request No. 7
RR-7

Removal of Bolts At Bolted Connections

System: Various **Class 1, 2 and 3**
Category: Various **Item No.: Various**

COMPONENT IDENTIFICATION
Class 1, 2, and 3 Pressure Retaining Bolted Connections

CODE REQUIREMENT

Paragraph IWA-5250 (a)(2) states, "The sources of leakage detected during the conduct of a system pressure test shall be located and evaluated by the Owner for corrective action as follows. "If leakage occurs at a bolted connection in a system borated for the purpose of controlling reactivity, one of the bolts shall be removed, VT-3 examined, and evaluated in accordance with IWA-3100.

BASIS FOR RELIEF

Pursuant to 10 CFR 50.55a(a)(3)(i), relief is requested on the basis that the proposed alternative would provide an acceptable level of quality and safety.

Removal of pressure retaining bolting at mechanical connections for visual, VT-3 examination and subsequent evaluation in locations where leakage has been identified is not always the most prudent course of action to determine the condition of the bolting and/or root cause of the leak.

The Code requirement to remove, examine and evaluate bolting in this situation does not allow the Owner to consider other factors that may indicate the condition of the mechanical joint bolting. FCS considers this requirement to be un-necessarily prescriptive and restrictive for application at Fort Calhoun Station

Other factors should be considered when evaluating bolting condition when leakage has been identified at a mechanical joint. These factors include, but are not limited to:

1. joint bolting materials,
2. location of the leakage,
3. history of leakage at the joint,

4. evidence of corrosion with the joint assembled, and
5. plant/industry studies of similar bolting materials in a similar environment.

A situation frequently encountered at commercial nuclear plants such as Fort Calhoun Station is the complete replacement of bolting materials (studs, bolts, nuts, washers, etc) at mechanical joints during plant outages. When associated system process piping is pressurized during plant start-up, leakage is sometimes identified at these joints.

The root cause of this leakage is most often thermal expansion of the piping and bolting materials at the joint, which results in process fluid seepage at the joint gasket. Proper retorquing of the joint bolting, in most cases, stops the leakage. Removal of any of the joint bolting to evaluate for corrosion would be unwarranted in this situation due to the new condition of the bolting materials. ASME Section XI, Interpretation XI-1-92-01, has recognized this situation as one in which the requirements of IWA-5250(a)(2) do not apply.

PROPOSED ALTERNATIVE PROVISIONS

Fort Calhoun Station proposes the following alternative methodology to the requirements of IWA-5250(a)(2) that will provide an equivalent level of quality and safety when evaluating leakage and bolting material condition at Class 1, 2, and 3 bolted connections.

When leakage is identified at bolted connections by visual VT-2 examination, an evaluation will be performed to determine the susceptibility of the bolting to corrosion and assess the potential for failure. The evaluation will, at a minimum, consider the following factors:

1. bolting materials
2. leakage location,
3. leakage history at the connection,
4. visual evidence of corrosion at connection (connection assembled), and
5. industry studies and history of similar bolting in similar environment.

If any of the above parameters indicates the need for further evaluation, the bolt closest to the source of leakage will be removed, receive a VT-1 examination, and be evaluated in accordance with IWA-3100(a). If the leakage is identified when the bolted connection is in service, removal of the bolt for VT-1 examination may be deferred to the next refueling outage if the evaluation determines this is acceptable. When the removed bolt shows evidence of degradation, all remaining bolting shall be removed, VT-1 examined, and evaluated in accordance with IWA-3100(a). The additional examinations of IWB-2430 and IWC-2430 will not be performed unless the need is established by the above evaluation.

This relief was previously granted for use at FCS. Reference NRC Safety Evaluation, Evaluation of third 10-Year Inservice Inspection Interval Requests for Relief, TAC NO. MA4968, dated September 2, 1999.

PERIOD FOR WHICH RELIEF IS REQUESTED

Relief is requested for the fourth 10-year inspection interval at Fort Calhoun Station.

ISI Relief Request No. 8
RR-8

Use of Alternative to Appendix VIII, Supplement 10

System: Various — **Class 1 and 2**
Category: Various — **Item No.: Various**

SYSTEM/COMPONENT (S) FOR WHICH RELIEF IS REQUESTED

Pressure Retaining Piping Welds subject to examination using procedures, personnel, and equipment qualified to ASME Section XI, Appendix VIII, Supplement 10 criteria.

CODE REQUIREMENTS

The following paragraphs or statements are from ASME Section XI, Appendix VIII, Supplement 10 and identify the specific requirements that are included in this request for relief.

Item 1 - Paragraph 1.1(b) states in part - Pipe diameters within a range of 0.9 to 1.5 times a nominal diameter shall be considered equivalent.

Item 2 - Paragraph 1.1(d) states - All flaws in the specimen set shall be cracks.

Item 3 - Paragraph 1.1(d)(1) states - At least 50% of the cracks shall be in austenitic material. At least 50% of the cracks in austenitic material shall be contained wholly in weld or buttering material. At least 10% of the cracks shall be in ferritic material. The remainder of the cracks may be in either austenitic or ferritic material.

Item 4 - Paragraph 1.2(b) states in part - The number of unflawed grading units shall be at least twice the number of flawed grading units.

Item 5 - Paragraph 1.2(c)(1) and 1.3(c) state in part - At least 1/3 of the flaws, rounded to the next higher whole number, shall have depths between 10% and 30% of the nominal pipe wall thickness. Paragraph 1.4(b) distribution table requires 20% of the flaws to have depths between 10% and 30%.

Item 6 - Paragraph 2.0 first sentence states - The specimen inside surface and identification shall be concealed from the candidate.

Item 7 - Paragraph 2.2(b) states in part - The regions containing a flaw to be sized shall be identified to the candidate.

Item 8 - Paragraph 2.2(c) states in part - For a separate length-sizing test, the regions of each specimen containing a flaw to be sized shall be identified to the candidate.

Item 9 - Paragraph 2.3(a) states - For the depth sizing test, 80% of the flaws shall be sized at a specific location on the surface of the specimen identified to the candidate.

Item 10 - Paragraph 2.3(b) states - For the remaining flaws, the regions of each specimen containing a flaw to be sized shall be identified to the candidate. The candidate shall determine the maximum depth of the flaw in each region.

Item 11 - Table VIII-S2-1 provides the false call criteria when the number of unflawed grading units is at least twice the number of flawed grading units.

RELIEF REQUESTED

Pursuant to 10 CFR 50.55a(a)(3)(i), relief is requested on the basis that the proposed alternative would provide an acceptable level of quality and safety.

Relief is requested to use the following alternative requirements for implementation of Appendix VIII, Supplement 10 requirements. They will be implemented through the PDI Program.

A copy of the proposed revision to Supplement 10 is attached. It identifies the proposed alternatives and allows them to be viewed in context. It also identifies additional clarifications and enhancements for information. It has been submitted to the ASME Code for consideration and as of September 2002 had been approved by the NDE Subcommittee.

BASIS FOR RELIEF

Item 1 - The proposed alternative to Paragraph 1.1(b) states:

"The specimen set shall include the minimum and maximum pipe diameters and thicknesses for which the examination procedure is applicable. Pipe diameters within a range of 1/2 in. (13 mm) of the nominal diameter shall be considered equivalent. Pipe diameters larger than 24 in. (610 mm) shall be considered to be flat. When a range of thicknesses is to be examined, a thickness tolerance of $\pm$25% is acceptable."

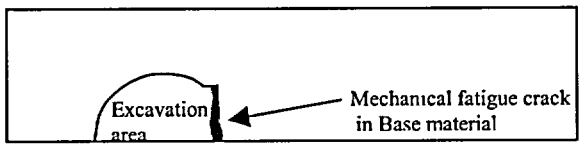
Technical Basis - The change in the minimum pipe diameter tolerance from 0.9 times the diameter to the nominal diameter minus 0.5 inch provides tolerances more in line with industry practice. Though the alternative is less stringent for small pipe diameters they typically have a thinner wall thickness than larger diameter piping. A thinner wall thickness results in shorter sound path distances that reduce the detrimental effects of the

curvature. This change maintains consistency between Supplement 10 and the recent revision to Supplement 2.

Item 2 - The proposed alternative to Paragraph 1.1(d) states:

"At least 60% of the flaws shall be cracks, the remainder shall be alternative flaws. Specimens with IGSCC shall be used when available. Alternative flaws, if used, shall provide crack-like reflective characteristics and shall be limited to the case where implantation of cracks produces spurious reflectors that are uncharacteristic of actual flaws. Alternative flaw mechanisms shall have a tip width of less than or equal to 0.002 in. (.05 mm). Note, to avoid confusion the proposed alternative modifies instances of the term "cracks" or "cracking" to the term "flaws" because of the use of alternative flaw mechanisms."

Technical Basis - As illustrated below, implanting a crack requires excavation of the base material on at least one side of the flaw. While this may be satisfactory for ferritic materials, it does not produce a useable axial flaw in austenitic materials because the sound beam, which normally passes only through base material, must now travel through weld material on at least one side, producing an unrealistic flaw response. In addition, it is important to preserve the dendritic structure present in field welds that would otherwise be destroyed by the implantation process. To resolve these issues, the proposed alternative allows the use of up to 40% fabricated flaws as an alternative flaw mechanism under controlled conditions. The fabricated flaws are isostatically compressed which produces ultrasonic reflective characteristics similar to tight cracks.



Item 3 - The proposed alternative to Paragraph 1.1(d)(1) states:

"At least 80% of the flaws shall be contained wholly in weld or buttering material. At least one and a maximum of 10% of the flaws shall be in ferritic base material. At least one and a maximum of 10% of the flaws shall be in austenitic base material."

Technical Basis - Under the current Code, as few as 25% of the flaws are contained in austenitic weld or buttering material. Recent experience has indicated that flaws contained within the weld are the likely scenarios. The metallurgical structure of austenitic weld material is ultrasonically more challenging than either ferritic or austenitic base material. The proposed alternative is therefore more challenging than the current Code.

Item 4 - The proposed alternative to Paragraph 1.2(b) states:

"Detection sets shall be selected from Table VIII-S10-1. The number of unflawed grading units shall be at least one and a half times the number of flawed grading units."

Technical Basis - Table S-10-1 provides a statistically based ratio between the number of unflawed grading units and the number of flawed grading units. The proposed alternative reduces the ratio to 1.5 times to reduce the number of test samples to a more reasonable number from the human factors perspective. However, the statistical basis used for screening personnel and procedures is still maintained at the same level with competent personnel being successful and less skilled personnel being unsuccessful. The acceptance criteria for the statistical basis are in Table VIII-S10-1.

Item 5 - The proposed alternative to the flaw distribution requirements of Paragraph 1.2(c)(1) (detection) and 1.3(c) (length) is to use the Paragraph 1.4(b) (depth) distribution table (see below) for all qualifications.

Flaw Depth (% Wall Thickness)	**Minimum** Number of Flaws
10-30%	20%
31-60%	20%
61-100%	20%

Technical Basis - The proposed alternative uses the depth sizing distribution for both detection and depth sizing because it provides for a better distribution of flaw sizes within the test set. This distribution allows candidates to perform detection, length, and depth sizing demonstrations simultaneously utilizing the same test set. The requirement that at least 75% of the flaws shall be in the range of 10 to 60% of wall thickness provides an overall distribution tolerance yet the distribution uncertainty decreases the possibilities for testmanship that would be inherent to a uniform distribution. It must be noted that it is possible to achieve the same distribution utilizing the present requirements, but it is preferable to make the criteria consistent.

Item 6 - The proposed alternative to Paragraph 2.0 first sentence states:

"For qualifications from the outside surface, the specimen inside surface and identification shall be concealed from the candidate. When qualifications are performed from the inside surface, the flaw location and specimen identification shall be obscured to maintain a "blind test"."

Technical Basis - The current Code requires that the inside surface be concealed from the candidate. This makes qualifications conducted from the inside of the pipe (e.g., PWR nozzle to safe end welds) impractical. The proposed alternative differentiates between ID and OD scanning surfaces, requires that they be conducted separately, and requires that

flaws be concealed from the candidate. This is consistent with the recent revision to Supplement 2.

Items 7 and 8 - The proposed alternatives to Paragraph 2.2(b) and 2.2(c) state:

"... Containing a flaw to be sized may be identified to the candidate."

Technical Basis - The current Code requires that the regions of each specimen containing a flaw to be length sized shall be identified to the candidate. The candidate shall determine the length of the flaw in each region (Note, that length and depth sizing use the term "regions" while detection uses the term "grading units" - the two terms define different concepts and are not intended to be equal or interchangeable). To ensure security of the samples, the proposed alternative modifies the first "shall" to a "may" to allow the test administrator the option of not identifying specifically where a flaw is located. This is consistent with the recent revision to Supplement 2.

Items 9 and 10 - The proposed alternative to Paragraph 2.3(a) and 2.3(b) state:

"... Regions of each specimen containing a flaw to be sized may be identified to the candidate."

Technical Basis - The current Code requires that a large number of flaws be sized at a specific location. The proposed alternative changes the "shall" to a "may" which modifies this from a specific area to a more generalized region to ensure security of samples. This is consistent with the recent revision to Supplement 2. It also incorporates terminology from length sizing for additional clarity.

Item 11 - The proposed alternative modifies the acceptance criteria of Table VIII-S2-1 as follows:

TABLE VIII-S~~2~~10-1
PERFORMANCE DEMONSTRATION DETECTION TEST
ACCEPTANCE CRITERIA

Detection Test Acceptance Critera		False Call Test Acceptance Criteria	
No. of Flawed Grading Units	Minimum Detection Criteria	No. of Unflawed Grading Units	Maximum Number of False Calls
~~5~~	~~5~~	~~10~~	~~0~~
~~6~~	~~6~~	~~12~~	~~1~~
~~7~~	~~6~~	~~14~~	~~1~~
~~8~~	~~7~~	~~16~~	~~2~~
~~9~~	~~7~~	~~18~~	~~2~~
10	8	~~20~~ 15	~~3~~ 2
11	9	~~22~~ 17	~~3~~ 3
12	9	~~24~~ 18	~~3~~ 3
13	10	~~26~~ 20	~~4~~ 3
14	10	~~28~~ 21	~~5~~ 3
15	11	~~30~~ 23	~~5~~ 3
16	12	~~32~~ 24	~~6~~ 4
17	12	~~34~~ 26	~~6~~ 4
18	13	~~36~~ 27	~~7~~ 4
19	13	~~38~~ 29	~~7~~ 4
20	14	~~40~~ 30	~~8~~ 5

Technical Basis - The proposed alternative is identified as new Table S-10-1 above. It was modified to reflect the reduced number of unflawed grading units and allowable false calls. As a part of ongoing Code activities, PNNL has reviewed the statistical significance of these revisions and offered the revised Table S-10-1.

ALTERNATIVE EXAMINATION

In lieu of the requirements of ASME Section XI, 1998 Edition, 2000 Addenda, Appendix VIII, Supplement 10, the proposed alternative shall be used. The proposed alternative is described in the enclosure.

JUSTIFICATION FOR GRANTING RELIEF

Pursuant to 10 CFR 50.55a(a)(3)(i), approval is requested to use the proposed alternatives described above in lieu of the ASME Section XI, Appendix VIII, Supplement 10 requirements. Compliance with the proposed alternatives will provide an adequate level of quality and safety for examination of the affected welds.

IMPLEMENTATION SCHEDULE

To be used for the 4th Ten year Inspection Interval

	1.0 SCOPE	
	Supplement 10 is applicable to dissimilar metal piping welds examined from either the inside or outside surface. Supplement 10 is not applicable to piping welds containing supplemental corrosion resistant clad (CRC) applied to mitigate Intergranular Stress Corrosion Cracking (IGSCC).	A scope statement provides added clarity regarding the applicable range of each individual Supplement. The exclusion of CRC provides consistency between Supplement 10 and the recent revision to Supplement 2 (Reference BC 00-755). Note, an additional change identifying CRC as "in course of preparation" is being processed separately.
1.0 SPECIMEN REQUIREMENTS	**2.0 SPECIMEN REQUIREMENTS**	Renumbered
Qualification test specimens shall meet the requirements listed herein, unless a set of specimens is designed to accommodate specific limitations stated in the scope of the examination procedure (e.g., pipe size, weld joint configuration, access limitations). The same specimens may be used to demonstrate both detection and sizing qualification.	Qualification test specimens shall meet the requirements listed herein, unless a set of specimens is designed to accommodate specific limitations stated in the scope of the examination procedure (e.g., pipe size, weld joint configuration, access limitations). The same specimens may be used to demonstrate both detection and sizing qualification.	No Change
1.1 General. The specimen set shall conform to the following requirements.	**2.1 General.** The specimen set shall conform to the following requirements.	Renumbered
	(a) The minimum number of flaws in a test set shall be ten.	New, changed minimum number of flaws to 10 so sample set size for detection is consistent with length and depth sizing.
(a) Specimens shall have sufficient volume to minimize spurious reflections that may interfere with the interpretation process.	**(b)** Specimens shall have sufficient volume to minimize spurious reflections that may interfere with the interpretation process.	Renumbered
(b) The specimen set shall include the minimum and maximum pipe diameters and thicknesses for which the examination procedure is applicable. Pipe diameters within a range of 0.9 to 1.5 times a nominal diameter shall be considered equivalent. Pipe diameters larger than 24 in. shall be considered to be flat. When a range of thicknesses is to be examined, a thickness tolerance of ±25% is acceptable.	**(c)** The specimen set shall include the minimum and maximum pipe diameters and thicknesses for which the examination procedure is applicable. Pipe diameters within a range of **1/2 in. (13 mm) of the** nominal diameter shall be considered equivalent. Pipe diameters larger than 24 in. **(610 mm)** shall be considered to be flat. When a range of thicknesses is to be examined, a thickness tolerance of ±25% is acceptable.	Renumbered, metricated, the change in pipe diameter tolerance provides consistency between Supplement 10 and the recent revision to Supplement 2 (Reference BC 00-755)
(c) The specimen set shall include examples of the following fabrication condition:	**(d)** The specimen set shall include examples of the following fabrication conditions:	Renumbered, changed "condition" to "conditions"
(1) geometric conditions that normally require	(1) geometric **and material** conditions that normally	Clarification, some of the items listed relate to

discrimination from flaws (e.g., counterbore or weld root conditions, cladding, weld buttering, remnants of previous welds, adjacent welds in close proximity);	require discrimination from flaws (e.g., counterbore or weld root conditions, cladding, weld buttering, remnants of previous welds, adjacent welds in close proximity, **and weld repair areas**);	material conditions rather than geometric conditions. Weld repair areas were added as a result of recent field experiences.
(2) typical limited scanning surface conditions (e.g., diametrical shrink, single-side access due to nozzle and safe end external tapers).	(2) typical limited scanning surface conditions (e.g., **weld crowns**, diametrical shrink, single-side access due to nozzle and safe end external tapers **for outside surface examinations; and internal tapers, exposed weld roots, and cladding conditions for inside surface examinations). Qualification requirements shall be satisfied separately for outside surface and inside surface examinations.**	Differentiates between ID and OD scanning surface limitations. Requires that ID and OD qualifications be conducted independently (Note, new paragraph 2.0 (identical to old paragraph 1.0) provides for alternatives when "a set of specimens is designed to accommodate specific limitations stated in the scope of the examination procedure.").
(d) All flaws in the specimen set shall be cracks.		Deleted this requirement, because new paragraph 2.3 below provides for the use of "alternative flaws" in lieu of cracks.
(1) At least 50% of the cracks shall be in austenitic material. At least 50% of the cracks in austenitic material shall be contained wholly in weld or buttering material. At least 10% of the cracks shall be in ferritic material. The remainder of the cracks may be in either austenitic or ferritic material.	**2.2 Flaw Location.** At least **80%** of the **flaws** shall be contained wholly in weld or buttering material. At least **one and a maximum of** 10% of the **flaws** shall be in ferritic **base** material. **At least one and a maximum of 10% of the flaws shall be in austenitic base material.**	Renumbered and re-titled. Flaw location percentages redistributed because field experience indicates that flaws contained in weld or buttering material are probable and represent the more stringent ultrasonic detection scenario.
(2) At least 50% of the cracks in austenitic base material shall be either IGSCC or thermal fatigue cracks. At least 50% of the cracks in ferritic material shall be mechanically or thermally induced fatigue cracks.	**2.3 Flaw Type.** **(a) At least 60% of the flaws shall be cracks, the remainder shall be alternative flaws. Specimens with IGSCC shall be used when available. Alternative flaws, if used, shall provide crack-like reflective characteristics and shall be limited to the case where implantation of cracks produces spurious reflectors that are uncharacteristic of actual flaws. Alternative flaw mechanisms shall have a tip width of less than or equal to 0.002 in. (.05 mm).**	Renumbered and re-titled. Alternative flaws are required for placing axial flaws in the HAZ of the weld and other areas where implantation of a crack produces metallurgical conditions that result in an unrealistic ultrasonic response. This is consistent with the recent revision to Supplement 2 (Reference BC 00-755). The 40% limit on alternative flaws is needed to support the requirement for up to 70% axial flaws. Metricated
(3) At least 50% of the cracks shall be coincident with areas described in (c) above.	**(b)** At least 50% of the **flaws** shall be coincident with areas described in **2.1(d)** above.	Renumbered. Due to inclusion of "alternative flaws", use of "cracks" is no longer appropriate.
	2.4 Flaw Depth. All flaw depths shall be greater than 10% of the nominal pipe wall thickness. Flaw	Moved from old paragraph 1.3(c) and 1.4 and re-titled. Consistency between detection and sizing

	depths shall exceed the nominal clad thickness when placed in cladding. **Flaws in the sample set shall be distributed as follows:** Flaw Depth (% Wall Thickness) — Minimum Number of Flaws **10-30% — 20%** **31-60% — 20%** **61-100% — 20%** **At least 75% of the flaws shall be in the range of 10 to 60% of wall thickness.**	specimen set requirements (e.g., 20% vs. 1/3 flaw depth increments, e.g., original paragraph 1.3(c))
1.2 Detection Specimens. The specimen set shall include detection specimens that meet the following requirements.		Renumbered and re-titled and moved to paragraph 3.1(a). No other changes
(a) Specimens shall be divided into grading units. Each grading unit shall include at least 3 in. of weld length. If a grading unit is designed to be unflawed, at least 1 in. of unflawed material shall exist on either side of the grading unit. The segment of weld length used in one grading unit shall not be used in another grading unit. Grading units need not be uniformly spaced around the pipe specimen.		Renumbered to paragraph 3.1(a)(1). No other changes.
(b) Detection sets shall be selected from Table VIII-S2-1. The number of unflawed grading units shall be at least twice the number of flawed grading units.		Moved to new paragraph 3.1(a)(2).
(c) Flawed grading units shall meet the following criteria for flaw depth, orientation, and type.		Flaw depth requirements moved to new paragraph 2.4, flaw orientation requirements moved to new paragraph 2.5, flaw type requirements moved to new paragraph 2.3, "Flaw Type".
(1) All flaw depths shall be greater than 10% of the nominal pipe wall thickness. At least 1/3 of the flaws, rounded to the next higher whole number,		Deleted, for consistency in sample sets the depth distribution is the same for detection and sizing.

shall have depths between 10% and 30% of the nominal pipe wall thickness. However, flaw depths shall exceed the nominal clad thickness when placed in cladding. At least 1/3 of the flaws, rounded to the next whole number, shall have depths greater than 30% of the nominal pipe wall thickness.		
(2) At least 30% and no more than 70% of the flaws, rounded to the next higher whole number, shall be oriented axially. The remainder of the flaws shall be oriented circumferentially.	**2.5 Flaw Orientation.** **(a)** At least 30% and no more than 70% of the flaws, rounded to the next higher whole number, shall be oriented axially. The remainder of the flaws shall be oriented circumferentially.	Note: this distribution is applicable for detection and depth sizing. Paragraph 2.5(b)(1) requires that all length- sizing flaws be oriented circumferentially.
1.3 Length Sizing Specimens. The specimen set shall include length-sizing specimens that meet the following requirements.		Renumbered and re-titled and moved to new paragraph 3.2
(a) All length sizing flaws shall be oriented circumferentially.		Moved, included in new paragraph 3.2(a)
(b) The minimum number of flaws shall be ten.		Moved, included in new paragraph 2.1 above
(c) All flaw depths shall be greater than 10% of the nominal pipe wall thickness. At least 1/3 of the flaws, rounded to the next higher whole number, shall have depths between 10% and 30% of the nominal pipe wall thickness. However, flaw depth shall exceed the nominal clad thickness when placed in cladding. At least 1/3 of the flaws, rounded to the next whole number, shall have depths greater than 30% of the nominal pipe wall thickness.		Moved, included in new paragraph 2.4 above after revision for consistency with detection distribution
1.4 Depth Sizing Specimens. The specimen set shall include depth-sizing specimens that meet the following requirements.		Moved, included in new paragraphs 2.1, 2.3, 2.4
(a) The minimum number of flaws shall be ten.		Moved, included in new paragraph 2.1
(b) Flaws in the sample set shall not be wholly contained within cladding and shall be distributed as follows:		Moved, potential conflict with old paragraph 1.2(c)(1); "However, flaw depths shall exceed the nominal clad thickness when placed in cladding.". Revised for clarity and included in new paragraph 2.4

Flaw Depth (% Wall Thickness) — Minimum Number of Flaws 10-30% — 20% 31-60% — 20% 61-100% — 20% The remaining flaws shall be in any of the above categories.		Moved, included in paragraph 2.4 for consistent applicability to detection and sizing samples.
	(b) Sizing Specimen sets shall meet the following requirements.	Added for clarity
	(1) All length-sizing flaws shall be oriented circumferentially.	Moved from old paragraph 1.3(a)
	(2) Depth sizing flaws shall be oriented as in 2.5(a).	Included for clarity. Previously addressed by omission (i.e., length, but not depth had a specific exclusionary statement)
2.0 CONDUCT OF PERFORMANCE DEMONSTRATION	**3.0 CONDUCT OF PERFORMANCE DEMONSTRATION**	Renumbered
The specimen inside surface and identification shall be concealed from the candidate. All examinations shall be completed prior to grading the results and presenting the results to the candidate. Divulgence of particular specimen results or candidate viewing of unmasked specimens after the performance demonstration is prohibited.	**For qualifications from the outside surface, the specimen inside surface and identification shall be concealed from the candidate. When qualifications are performed from the inside surface, the flaw location and specimen identification shall be obscured to maintain a "blind test".** All examinations shall be completed prior to grading the results and presenting the results to the candidate. Divulgence of particular specimen results or candidate viewing of unmasked specimens after the performance demonstration is prohibited.	Differentiate between qualifications conducted from the outside and inside surface.

2.1 Detection Test. Flawed and unflawed grading units shall be randomly mixed	**3.1 Detection Qualification.**	Renumbered, moved text to paragraph 3.1(a)(3)
	(a) The specimen set shall include detection specimens that meet the following requirements.	Renumbered, moved from old paragraph 1.2.
	(1) Specimens shall be divided into grading units. Each grading unit shall include at least 3 in. **(76 mm)** of weld length. If a grading unit is designed to be unflawed, at least 1 in. **(25 mm)** of unflawed material shall exist on either side of the grading unit. The segment of weld length used in one grading unit shall not be used in another grading unit. Grading units need not be uniformly spaced around the pipe specimen.	Renumbered, moved from old paragraph 1.2(a). Metricated. No other changes.
	(2) Detection sets shall be selected from Table VIII-S10-1. The number of unflawed grading units shall be at least **one and a half** times the number of flawed grading units.	Moved from old paragraph 1.2(b). Table revised to reflect a change in the minimum sample set to 10 and the application of equivalent statistical false call parameters to the reduction in unflawed grading units. Human factors due to large sample size.
	(3) flawed and unflawed grading units shall be randomly mixed.	Moved from old paragraph 2.1

	(b) Examination equipment and personnel are qualified for detection when **personnel demonstrations** satisfy the acceptance criteria of Table **VIII S10-1** for both detection and false calls.	Moved from old paragraph 3.1. Modified to reflect the 100% detection acceptance criteria of procedures versus personnel and equipment contained in new paragraph 4.0 and the use of 1.5X rather than 2X unflawed grading units contained in new paragraph 3.1(a)(2). Note, the modified table maintains the screening criteria of the original Table VIII-S2-1.
2.2 Length Sizing Test	**3.2 Length Sizing Test**	Renumbered
(a) The length-sizing test may be conducted separately or in conjunction with the detection test.	**(a) Each reported circumferential flaw in the detection test shall be length sized.**	Provides consistency between Supplement 10 and the recent revision to Supplement 2 (Reference BC 00-755).
(b) When the length-sizing test is conducted in conjunction with the detection test, and less than ten circumferential flaws are detected, additional specimens shall be provided to the candidate such that at least ten flaws are sized. The regions containing a flaw to be sized shall be identified to the candidate. The candidate shall determine the length of the flaw in each region.	(b) When the length-sizing test is conducted in conjunction with the detection test, and less than ten circumferential flaws are detected, additional specimens shall be provided to the candidate such that at least ten flaws are sized. The regions containing a flaw to be sized **may** be identified to the candidate. The candidate shall determine the length of the flaw in each region.	Change made to ensure security of samples, consistent with the recent revision to Supplement 2 (Reference BC 00-755). Note, length and depth sizing use the term "regions" while detection uses the term "grading units". The two terms define different concepts and are not intended to be equal or interchangeable.
(c) For a separate length-sizing test, the regions of each specimen containing a flaw to be sized shall be identified to the candidate. The candidate shall determine the length of the flaw in each region.	(c) For a separate length-sizing test, the regions of each specimen containing a flaw to be sized **may** be identified to the candidate. The candidate shall determine the length of the flaw in each region.	Change made to ensure security of samples, consistent with the recent revision to Supplement 2 (Reference BC 00-755).
	(d) Examination procedures, equipment, and personnel are qualified for length sizing **when** the RMS error of the flaw length measurements, as compared to the true flaw lengths, is less than or equal to 0.75 in. **(19 mm).**	Moved from old paragraph 3.2(a) includes inclusion of "when" as an editorial change. Metricated.
2.3 Depth Sizing Test	**3.3 Depth Sizing Test**	Renumbered
(a) For the depth-sizing test, 80% of the flaws shall be sized at a specific location on the surface of the	**(a) The depth-sizing test may be conducted separately or in conjunction with the detection**	Change made to ensure security of samples, consistent with the recent revision to Supplement 2

specimen identified to the candidate.	**test. For a separate depth-sizing test, the regions of each specimen containing a flaw to be sized may be identified to the candidate. The candidate shall determine the maximum depth of the flaw in each region.**	(Reference BC 00-755).
(b) For the remaining flaws, the regions of each specimen containing a flaw to be sized shall be identified to the candidate. The candidate shall determine the maximum depth of the flaw in each region.	**(b) When the depth-sizing test is conducted in conjunction with the detection test, and less than ten flaws are detected, additional specimens shall be provided to the candidate such that at least ten flaws are sized.** The regions of each specimen containing a flaw to be sized may be identified to the candidate. The candidate shall determine the maximum depth of the flaw in each region.	Change made to be consistent with the recent revision to Supplement 2 (Reference BC 00-755). Changes made to ensure security of samples, consistent with the recent revision to Supplement 2 (Reference BC 00-755).
	(c) Examination procedures, equipment, and personnel are qualified for depth sizing when the RMS error of the flaw depth measurements, as compared to the true flaw depths, is less than or equal to 0.125 in. **(3 mm).**	Moved from old paragraph 3.2(b). Metricated.
3.0 ACCEPTANCE CRITERIA		Delete as a separate category. Moved to new paragraph detection (3.1) and sizing 3.2 and 3.3
3.1 Detection Acceptance Criteria. Examination procedures, equipment, and personnel are qualified for detection when the results of the performance demonstration satisfy the acceptance criteria of Table VIII-S2-1 for both detection and false calls.		Moved to new paragraph 3.1(b), reference changed to Table S10 from S2 because of the change in the minimum number of flaws and the reduction in unflawed grading units from 2X to 1.5X.
3.2 Sizing Acceptance Criteria		Deleted as a separate category. Moved to new paragraph on length 3.2 and depth 3.3
(a) Examination procedures, equipment, and personnel are qualified for length sizing the RMS error of the flaw length measurements, as compared to the true flaw lengths, is less than or equal to 0.75 inch.		Moved to new paragraph 3.2(d), included word "when" as an editorial change.
(b) Examination procedures, equipment, and personnel are qualified for depth sizing when the RMS error of the flaw depth measurements, as compared to the true flaw depths, is less than or		Moved to new paragraph 3.3(c)

equal to 0.125 in.		
	4.0 PROCEDURE QUALIFICATION	New
	Procedure qualifications shall include the following additional requirements. **(a) The specimen set shall include the equivalent of at least three personnel sets. Successful personnel demonstrations may be combined to satisfy these requirements.** **(b) Detectability of all flaws within the scope of the procedure shall be demonstrated. Length and depth sizing shall meet the requirements of paragraph 3.2 and 3.3.** **(c) At least one successful personnel demonstration has been performed.** **(d) To qualify new values of essential variables, at least one personnel qualification set is required.**	New. Based on experience gained in conducting qualifications, the equivalent of 3 personnel sets (i.e., a minimum of 30 flaws) is required to provide enough flaws to adequately test the capabilities of the procedure. Combining successful demonstrations allows a variety of examiners to be used to qualify the procedure. Detectability of each flaw within the scope of the procedure is required to ensure an acceptable personnel pass rate. The last sentence is equivalent to the previous requirements and is satisfactory for expanding the essential variables of a previously qualified procedure

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TABLE VIII-S~~2~~-1
PERFORMANCE DEMONSTRATION DETECTION TEST
ACCEPTANCE CRITERIA

Detection Test Acceptance Critera		False Call Test Acceptance Criteria	
No. of Flawed Grading Units	Minimum Detection Criteria	No. of Unflawed Grading Units	Maximum Number of False Calls
~~5~~	~~5~~	~~10~~	~~0~~
~~6~~	~~6~~	~~12~~	~~1~~
~~7~~	~~6~~	~~14~~	~~1~~
~~8~~	~~7~~	~~16~~	~~2~~
~~9~~	~~7~~	~~18~~	~~2~~
10	8	~~20~~ 15	~~3~~ 2
11	9	~~22~~ 17	~~3~~ 3
12	9	~~24~~ 18	~~3~~ 3
13	10	~~26~~ 20	~~4~~ 3
14	10	~~28~~ 21	~~5~~ 3
15	11	~~30~~ 23	~~5~~ 3
16	12	~~32~~ 24	~~6~~ 4
17	12	~~34~~ 26	~~6~~ 4
18	13	~~36~~ 27	~~7~~ 4
19	13	~~38~~ 29	~~7~~ 4
20	14	~~40~~	~~8~~ 4

ISI Relief Request No. 9
RR-9

Use of Alternative to Appendix VIII, (Proposed) Supplement 14

System: Various **Class 1 and 2**
Category: Various **Item No.: Various**

SYSTEM/COMPONENT (S) FOR WHICH RELIEF IS REQUESTED

Class 1 Pressure Retaining Piping Welds examined from the inside surface of Pressurized Water Reactors using procedures, personnel, and equipment qualified to ASME Section XI, Appendix VIII, Supplement 2, 3, or 10 criteria.

CODE REQUIREMENTS

Relief is requested from the qualification requirements for piping welds contained in Table VIII-3110-1 of Appendix VIII to ASME Section XI.

Table VIII-3110-1 identifies Supplement 2 as applicable for Wrought Austenitic Piping Welds.

Table VIII-3110-1 identifies Supplement 3 as applicable for Ferritic Piping Welds.

Table VIII-3110-1 identifies Supplement 10 as applicable for Dissimilar Metal Piping Welds.

RELIEF REQUESTED

Pursuant to 10 CFR 50.55a(a)(3)(i), relief is requested on the basis that the proposed alternative would provide an acceptable level of quality and safety.

Relief is requested to use the enclosed proposed alternative for implementation of selected aspects of Appendix VIII, Supplement 2 and 3, as coordinated with the proposed alternative for the Supplement 10 implementation program. The Performance Demonstration Initiative (PDI) will administer the alternative program.

BASIS FOR RELIEF

Depending upon the particular design, the nozzle to main coolant piping may be fabricated using ferritic, austenitic, or cast stainless components and assembled using ferritic, austenitic, or dissimilar metal welds. Additionally, differing combinations of

these assemblies may be in close proximity, which typically means the same ultrasonic essential variables are used for each weld and the most challenging ultrasonic examination process is employed (e.g., the ultrasonic examination process associated with a dissimilar metal weld would be applied to a ferritic or austenitic weld.

Separate qualifications to Supplements 2, 3, and 10 are redundant when done in accordance with the PDI Program. For example, during a personnel qualification to the PDI Program, the candidate would be exposed to a minimum of 10 flawed grading units for each individual supplement. Personnel qualification to Supplements 2, 3, and 10 would therefore require a total of 30 flawed grading units. Test sets this large and tests of this duration are impractical. Additionally, a full procedure qualification (i.e. 3 personnel qualifications) to the PDI Program requirements would require 90 flawed grading units. This is particularly burdensome for a procedure that will use the same essential variables or the same criteria for selecting essential variables for all 3 supplements.

To resolve these issues, the PDI Program recognizes the Supplement 10 qualification as the most stringent and technically challenging ultrasonic application. The essential variables used for the examination of Supplements 2, 3, and 10 are equivalent and a coordinated implementation would be sufficiently stringent to qualify all 3 Supplements if the requirements used to qualify Supplement 10 are satisfied as a prerequisite. The basis for this conclusion is the fact that the majority of the flaws in Supplement 10 are located wholly in austenitic weld material, which is known to be challenging for ultrasonic techniques due to the variable dendritic structure of the weld material. Flaws in Supplements 2 and 3 are located in fine-grained base materials, which are known to be less challenging.

Additionally, the proposed alternative is more stringent than current Code requirements for a detection and length sizing qualification. For example, the current Code would allow a detection procedure, personnel, and equipment to be qualified to Supplement 10 with 5 flaws, Supplement 2 with 5 flaws, and Supplement 3 with 5 flaws, a total of only 15 flaws. The proposed alternative of qualifying Supplement 10 using 10 flaws and adding on Supplement 2 with 5 flaws and Supplement 3 with 3 flaws results in a total of 18 flaws which will be multiplied by a factor of 3 for the procedure qualification.

Based on the above, the use of a limited number of Supplement 2 or 3 flaws is sufficient to access the capabilities of procedures and personnel who have already satisfied Supplement 10 requirements. The statistical basis used for screening personnel and procedures is still maintained at the same level with competent personnel being successful and less skilled personnel being unsuccessful. The proposed alternative is consistent with other coordinated qualifications currently contained in Appendix VIII.

The proposed alternate program is attached and is identified as Supplement 14. It has been submitted to the ASME Code for consideration as new Supplement 14 to Appendix VIII and as of September 2002 had been approved by the NDE Subcommittee.

ALTERNATIVE EXAMINATION

In lieu of the requirements of ASME Section XI, 1998 Edition, 2000 Addenda, Appendix VIII, Table VIII-3110-1, the Performance Demonstration Initiative (PDI) Program for implementation of selected aspects of Appendix VIII, Supplement 2, and 3, as coordinated with the alternative PDI Supplement 10 implementation program shall be used and as modified in FCS RR-8. The PDI Program alternative is described in the enclosure.

JUSTIFICATION FOR GRANTING RELIEF

Pursuant to 10 CFR 50.55a(a)(3)(i), approval is requested to use the proposed alternatives described above in lieu of the ASME Section XI, Appendix VIII, Supplement 10 requirements. Compliance with the proposed alternatives will provide an adequate level of quality and safety for examination of the affected welds.

IMPLEMENTATION SCHEDULE

To be used for the 4th Ten year Inspection Interval

1.0 SCOPE	Reasoning
This Supplement provides requirements for expansion of Supplement 10 procedure, equipment, and personnel inside surface qualifications with add-ons of Supplements 2 and 3 qualifications. The same ultrasonic essential variables values, or, when appropriate, the same criteria for selecting values as demonstrated in Supplement 10 shall be used. This Supplement is applicable to examinations conducted from the inside surface.	There is currently no available Code action allowing for a coordinated implementation of the fundamental qualifications required for the typical examinations performed from the ID of PWR nozzles. Without this Code Case/Change, qualifications would require an excessive amount of flawed and unflawed grading units. This proposed supplement uses the more technically stringent Supplement 10 qualification as a base and then incorporates a limited number of Supplement 2 and Supplement 3 samples. This proposal is consistent with the philosophy of Supplement 12, the proposed changes to Supplement 10, and the approved changes to Supplement 2 and 11.
2.0 SPECIMEN REQUIREMENTS	
2.1General Qualification test specimens shall meet the requirements listed herein, unless a set of specimens is designed to accommodate specific limitations stated in the scope of the examination procedure (e.g., pipe size, access limitations). The same specimens may be used to demonstrate both detection and sizing qualification. The specimen sets shall conform to the following requirements.	
(a) Specimens shall have sufficient volume to minimize spurious reflections that may interfere with the interpretation process.	
(b) The specimen set shall include the minimum and maximum pipe diameters and thicknesses for which the examination procedure is applicable. Pipe diameters within 1/2 in. (13 mm) of the nominal diameter shall be considered equivalent. Pipe diameters larger than 24 in. (610 mm) shall be considered to be flat. When a range of thicknesses is to be examined, a thickness tolerance of ± 25% is acceptable.	This criteria is consistent with Supplement 10.
(c) The specimen set shall include examples of the following fabrication conditions: (1) geometric and material conditions that normally require discrimination from flaws (e.g., counterbore or weld root conditions, cladding, weld buttering, remnants of previous welds, adjacent welds in close proximity, and weld repair areas); (2) typical limited scanning surface conditions (e.g., internal tapers, exposed weld roots, and cladding conditions).	
2.2 At least 70% of the Supplement 2 flaws shall be cracks, the remainder shall be alternative flaws. Specimens with IGSCC shall be used when available Alternative flaws, if used, shall provide crack-like reflective characteristics and shall be limited to the case where implantation of cracks produces spurious reflectors that are uncharacteristic of actual flaws. Alternative flaw mechanisms shall have a tip width of less than or equal to 0.002 in. (0.05 mm).	

2.3 Supplement 3 flaws shall be mechanical or thermal fatigue cracks.	
2.4 The specimen set shall contain a representative distribution of flaws. Flawed and unflawed grading units shall be randomly mixed.	Since the number of flaws will be limited words such as "uniform distribution" could lead to testmanship and are considered inappropriate.
3.0 CONDUCT OF PERFORMANCE DEMONSTRATION	
The flaw location and specimen identification shall be obscured to maintain a "blind test". All examinations shall be completed prior to grading the results and presenting the results to the candidate. Divulgence of particular specimen results or candidate viewing of unmasked specimens after the performance demonstration is prohibited.	
4.0 DETECTION QUALIFICATION	
The coordinated implementation shall include the following requirements for personnel detection qualification.	
4.1 The specimen set for Supplement 2 qualification shall include at least five flawed grading units and ten unflawed grading units in austenitic piping. A maximum of one flaw shall be oriented axially.	
4.2 The specimen set for Supplement 3 qualification shall include at least three flawed grading units and six unflawed grading units in ferritic piping. A maximum of one flaw shall be oriented axially.	
4.3 Specimens shall be divided into grading units. Each grading unit shall include at least 3 in. (76 mm) of weld length. If a grading unit is designed to be unflawed, at least 1 in. (25 mm) of unflawed material shall exist on either side of the grading unit. The segment of weld length used in one grading unit shall not be used in another grading unit. Grading units need not be uniformly spaced around the pipe specimen.	
4.4 All grading units shall be correctly identified as being either flawed or unflawed.	
5.0 LENGTH SIZING QUALIFICATION	
The coordinated implementation shall include the following requirements for personnel length sizing qualification.	
5.1 The specimen set for Supplement 2 qualification shall include at least four flaws in austenitic material.	Axial flaws are not length sized in Supplement 2.
5.2 The specimen set for Supplement 3 qualification shall include at least three flaws in ferritic material.	
5.3 Each reported circumferential flaw in the detection test shall be length sized. When only length sizing is being tested, the regions of each specimen containing a flaw to be sized may be identified to the candidate. The candidate shall determine the length of the flaw in each region.	
5.4 Supplement 2 examination procedures, equipment, and personnel are qualified	

for length sizing when the flaw lengths estimated by ultrasonics, as compared with the true lengths, does not exceed 0.75 in. (19 mm) RMS when they are combined with a successful Supplement 10 qualification.	
5.5 Supplement 3 examination procedures, equipment, and personnel are qualified for length sizing when the flaw lengths estimated by ultrasonics, as compared with the true lengths, does not exceed 0.75 in. (19 mm) RMS when they are combined with a successful Supplement 10 qualification.	
6.0 DEPTH SIZING QUALIFICATION	
The coordinated implementation shall include the following requirements for personnel depth sizing qualification.	
6.1 The specimen set for Supplement 2 qualification shall include at least four circumferentially oriented flaws in austenitic material.	Axial flaws are not depth sized in Supplement 2.
6.2 The specimen set for Supplement 3 qualification shall include at least three flaws in ferritic material.	
6.3 For a separate depth sizing test, the regions of each specimen containing a flaw to be sized may be identified to the candidate. The candidate shall determine the depth of the flaw in each region.	
6.4 Supplement 2 examination procedures, equipment, and personnel are qualified for depth sizing when the flaw depths estimated by ultrasonics, as compared with the true depths, does not exceed 0.125 in. (3 mm) RMS when they are combined with a successful Supplement 10 qualification.	
6.5 Supplement 3 examination procedures, equipment, and personnel are qualified for depth sizing when the flaw depths estimated by ultrasonics, as compared with the true depths, does not exceed 0.125 in. (3 mm) RMS when they are combined with a successful Supplement 10 qualification.	
7.0 PROCEDURE QUALIFICATION	
Procedure qualifications shall include the following additional requirements. (a) The specimen set shall include the equivalent of at least three personnel sets. Successful personnel demonstrations may be combined to satisfy these requirements. (b) Detectability of all flaws within the scope of the procedure shall be demonstrated. Length and depth sizing shall meet the requirements of paragraph 5.0 and 6.0. (c) At least one successful personnel demonstration has been performed. (d) To qualify new values of essential variables, at least one personnel qualification set is required.	

8.0 INSERVICE INSPECTION PROGRAM NOTES

Inservice Inspection Program Notes provide Fort Calhoun specific implementation practices for ISI requirements.

Table 8.0 provides an index and summary of each note.

Fort Calhoun Station Fourth Interval
ISI Program Plan

TABLE 8.0
ISI PROGRAM NOTES INDEX

Note #	Note Summary	Revision
Note 1	The shell-to-flange weld examination may be performed during the first and third periods, in which case 50% of the shell-to-flange weld shall be the end of the first period, and the remainder by the end of the third period. During the first period, the examination need only be performed from the flange face, provided this same portion is examined from the shell during the third period.	0
Note 2	Deferral is not permissible for the head-to-flange weld. However, during the first and second periods, the examination need only be performed from the flange face, provided these same portions are examined from the head during the third period.	0
Note 3	For heat exchangers, piping, pumps, and valves, examinations are limited to components selected for examination under Categories B-B, B-J, B-L-2, and B-M-2.	0
Note 4	Seamless pipe.	0

9.0 REFERENCES

The references used to develop this Inservice Inspection Program Plan include:

1) Code of Federal Regulations, Title 10, Part 50, Paragraph 50.55a, "Codes and Standards".

2) ASME Boiler and Pressure Vessel Code, Section XI, Division 1, "Inservice Inspection of Nuclear Power Plant Components", the 1998 Edition with Addenda through 2000.

3) Regulatory Guide 1.26, Revision 3, "Quality Group Classifications and Standards for Water-, Steam-, and Radioactive Waste- Containing Components of Nuclear Power Plants".

4) Code of Federal Regulations, Title 10, Part 50, Paragraph 2, "Definitions", the definition of "Reactor Coolant Pressure Boundary".

5) Fort Calhoun Station Updated Safety Analysis Report.

6) Fort Calhoun Station Technical Specifications.

7) Fort Calhoun Inservice Inspection Plan, 3rd Ten Year Inspection Interval

SECTION 10.0

DETAILED TEN YEAR EXAM SCHEDULE

Fort Calhoun Station
Fourth Interval Inservice Inspection Program
Detailed Ten Year Exam Schedule
Class 1

CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
B-A	3	B1 11		RPV-SC-16-410	LOWER SHELL TO BOTTOM HEAD	A-01
B-A	3	B1.11		RPV-SC-B-11	UPPER SHELL TO MIDDLE SHELL	A-01
B-A	3	B1.11		RPV-SC-C-11	MIDDLE SHELL TO LOWER SHELL	A-01
B-A	3	B1.12		RPV-SL-A-1	UPPER SHELL (60)	A-01
B-A	3	B1 12		RPV-SL-A-2	MIDDLE SHELL (0)	A-01
B-A	3	B1.12		RPV-SL-A-3	LOWER SHELL (60)	A-01
B-A	3	B1.12		RPV-SL-B-1	UPPER SHELL (180)	A-01
B-A	3	B1.12		RPV-SL-B-2	MIDDLE SHELL (120)	A-01
B-A	3	B1.12		RPV-SL-B-3	LOWER SHELL (180)	A-01
B-A	3	B1.12		RPV-SL-C-1	UPPER SHELL (300)	A-01
B-A	3	B1.12		RPV-SL-C-2	MIDDLE SHELL (240)	A-01
B-A	3	B1.12		RPV-SL-C-3	LOWER SHELL (300)	A-01
B-A		B1.21		RPVCH-DW-1	DOME WELD	A-02A
B-A	3	B1.21		RPVLH-2-411	DOLLAR WELD	A-02
B-A	3	B1.22		RPVCH-HM-1	MERIDIONAL WELD AT 0	A-02A
B-A	3	B1.22		RPVCH-HM-2	MERIDIONAL WELD AT 60	A-02A
B-A	3	B1.22		RPVCH-HM-3	MERIDIONAL WELD AT 120	A-02A
B-A	3	B1.22		RPVCH-HM-4	MERIDIONAL WELD AT 180	A-02A
B-A	3	B1.22		RPVCH-HM-5	MERIDIONAL WELD AT 240	A-02A
B-A	3	B1.22		RPVCH-HM-6	MERIDIONAL WELD AT 300	A-02A
B-A	3	B1.22		RPVLH-1-411-A	MERIDIONAL WELD AT 30	A-02
B-A	3	B1.22		RPVLH-1-411-B	MERIDIONAL WELD AT 90	A-02
B-A	3	B1 22		RPVLH-1-411-C	MERIDIONAL WELD AT 150	A-02
B-A	3	B1 22		RPVLH-1-411-D	MERIDIONAL WELD AT 210	A-02
B-A	3	B1 22		RPVLH-1-411-E	MERIDIONAL WELD AT 270	A-02
B-A	3	B1.22		RPVLH-1-411-F	MERIDIONAL WELD AT 330	A-02
B-A	1, 3	B1.30		RPV-A-11	SHELL TO FLANGE	A-01
B-A	1	B1 40		RPVCH-HF-1	HEAD TO FLANGE WELD	A-02A
B-B	1	B2 11		PRZ-SC-3-403	LOWER SHELL TO BOTTOM HEAD	A-03
B-B	3	B2 11		PRZ-SC-5-403	UPPER SHELL TO TOP HEAD	A-03
B-B	3	B2.12		PRZ-SL-2-403A	SHELL LONG SEAM AT 270	A-03
B-B		B2.12		PRZ-SL-2-403B	SHELL LONG SEAM AT 90	A-03
B-B		B2 12		PRZ-SL-2-403C	SHELL LONG SEAM AT 180	A-03
B-B	1	B2 12		PRZ-SL-2-403D	SHELL LONG SEAM AT 0	A-03
B-B		B2 31		SG-1-C-1	DOLLAR WELD	A-05
B-B	1	B2 31		SG-1-C-2	LOWER HEAD TO LOWER EXT. RING	A-05
B-B		B2 31		SG-2-C-1	DOLLAR WELD	A-06
B-B	2	B2 31		SG-2-C-2	LOWER HEAD TO LOWER EXT.RING	A-06
B-B		B2 32		SG-1-M-1	LOWER HEAD MERIDIONAL WELD	A-05
B-B		B2 32		SG-1-M-2	LOWER HEAD MERIDIONAL WELD	A-05
B-B		B2 32		SG-1-M-3	LOWER HEAD MERIDIONAL WELD	A-05
B-B		B2 32		SG-1-M-4	LOWER HEAD MERIDIONAL WELD	A-05
B-B		B2 32		SG-2-M-1	LOWER HEAD MERIDIONAL WELD	A-06
B-B		B2.32		SG-2-M-2	LOWER HEAD MERIDIONAL WELD	A-06
B-B	2	B2.32		SG-2-M-3	LOWER HEAD MERIDIONAL WELD	A-06
B-B		B2.32		SG-2-M-4	LOWER HEAD MERIDIONAL WELD	A-06
B-B	1	B2.40		SG-1-C-3	LOWER EXT. RING TO TUBESHEET	A-05
B-B	2	B2.40		SG-2-C-3	LOWER EXT. RING TO TUBESHEET	A-06
B-B		B2.51		RHE-CS-7	SHELL TO HEAD	A-07
B-B	3	B2.51		RHE-CS-9	SHELL TO HEAD	A-07

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
B-B		B2 70		RHE-LSD-18	LONGITUDINAL SHELL WELDS	A-07
B-B	3	B2 70		RHE-LSD-20	LONGITUDINAL SHELL WELDS	A-07
B-B	3	B2 80		RHE-TS-12	TUBE SHEET TO SHELL WELDS	A-07
B-B		B2 80		RHE-TS-5	TUBE SHEET TO SHELL WELDS	A-07
B-D	3	B3 100		RPV-N-1-A-IR	INSIDE RADIUS SECTION	A-01
B-D	3	B3.100		RPV-N-1-B-IR	INSIDE RADIUS SECTION	A-01
B-D	3	B3.100		RPV-N-2-A-IR	INSIDE RADIUS SECTION	A-01
B-D	3	B3 100		RPV-N-2-B-IR	INSIDE RADIUS SECTION	A-01
B-D	3	B3.100		RPV-N-2-C-IR	INSIDE RADIUS WELD	A-01
B-D	3	B3.100		RPV-N-2-D-IR	INSIDE RADIUS WELD	A-01
B-D	1	B3 110		PRL-1	RELIEF NOZZLE	A-04
B-D	2	B3 110		PSL-1	SAFETY NOZZLE	A-04
B-D	1	B3.110		PSL-10	SURGE NOZZLE (THERMAL SLEEVE)	A-04
B-D	2	B3.110		PSL-2	SAFETY NOZZLE	A-04
B-D	2	B3 110		PSS-1	SPRAY NOZZLE	A-04
B-D	1	B3 120		PRL-1-IR	INSIDE RADIUS SECTION	A-04
B-D	2	B3 120		PSL-1-IR	INSIDE RADIUS SECTION	A-04
B-D	1	B3 120		PSL-10-IR	INSIDE RADIUS SECTION	A-04
B-D	2	B3.120		PSL-2-IR	INSIDE RADIUS SECTION	A-04
B-D	2	B3.120		PSS-1-IR	INSIDE RADIUS SECTION	A-04
B-D	1	B3 130		SG-1-N-1	HEAD TO OUTLET NOZZLE	A-05
B-D	1	B3 130		SG-1-N-3	HEAD TO OUTLET NOZZLE	A-05
B-D	1	B3 130		SG-1-N-5	INLET NOZZLE TO HEAD	A-05
B-D	2	B3.130		SG-2-N-1	HEAD TO OUTLET NOZZLE	A-06
B-D	2	B3 130		SG-2-N-3	HEAD TO OUTLET NOZZLE	A-06
B-D	2	B3 130		SG-2-N-5	INLET NOZZLE TO HEAD	A-06
B-D	1	B3 140		SG-1-N-1-IR	INSIDE RADIUS SECTION	A-05
B-D	1	B3.140		SG-1-N-3-IR	INSIDE RADIUS SECTION	A-05
B-D	1	B3 140		SG-1-N-5-IR	INSIDE RADIUS SECTION	A-05
B-D	2	B3 140		SG-2-N-1-IR	INSIDE RADIUS SECTION	A-06
B-D	2	B3 140		SG-2-N-3-IR	INSIDE RADIUS SECTION	A-06
B-D	2	B3 140		SG-2-N-5-IR	INSIDE RADIUS SECTION	A-06
B-D	1	B3.150		RHE-BC-10	NOZZLE WELD	A-07
B-D	3	B3.150		RHE-BC-8	NOZZLE WELD	A-07
B-D	1	B3.150		RHE-N-11	NOZZLE WELD	A-07
B-D	3	B3.150		RHE-N-6	NOZZLE WELD	A-07
B-D	1	B3 160		RHE-BC-10-IR	INSIDE RADIUS SECTION	A-07
B-D	3	B3.160		RHE-BC-8-IR	INSIDE RADIUS SECTION	A-07
B-D	1	B3.160		RHE-N-11-IR	INSIDE RADIUS SECTION	A-07
B-D	3	B3 160		RHE-N-6-IR	INSIDE RADIUS SECTION	A-07
B-D	3	B3 90		RPV-N-1-A	SG-RC-2A NOZZLE TO VESSEL WELD	A-01
B-D	3	B3 90		RPV-N-1-B	SG-RC-2B NOZZLE TO VESSEL WELD	A-01
B-D	3	B3 90		RPV-N-2-A	RCP-RC-3A NOZZLE TO VESSEL WELD	A-01
B-D	3	B3 90		RPV-N-2-B	RCP-RC-3C NOZZLE TO VESSEL WELD	A-01
B-D	3	B3 90		RPV-N-2-C	RCP-RC-3D NOZZLE TO VESSEL WELD	A-01
B-D	3	B3 90		RPV-N-2-D	RCP-RC-3B NOZZLE TO VESSEL WELD	A-01
B-F	3	B5 10		MRC-1/01	RPV NOZZLE TO SAFE END	A-08
B-F	3	B5 10		MRC-1/18	SAFE END TO RPV NOZZLE	A-08
B-F	3	B5 10		MRC-1/30	SAFE END TO RPV NOZZLE	A-08
B-F	3	B5.10		MRC-2/01	RPV NOZZLE TO SAFE END	A-09

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B-F	3	B5 10		MRC-2/18	SAFE END TO RPV NOZZLE	A-09
B-F	3	B5.10		MRC-2/30	SAFE END TO RPV NOZZLE	A-09
B-F	1	B5 40		10-PSG-10/01	NOZZLE (PSG-10) TO SAFE END	A-14
B-F	1	B5 40		4-PSS-1/08	SAFE END (600) TO NOZZLE	A-15
B-F	1	B5 50		3-PRL-1/01A	NOZZLE TO RED. (INCL 600)	A-19
B-F	2	B5 50		3-PSL-1A	NOZZLE (PSL-1) TO FLANGE	A-16
B-F	2	B5.50		3-PSL-2A	NOZZLE (PSL-2) TO FLANGE	A-16
B-F	1	B5.70		MRC-1/06	SAFE END TO SG NOZZLE	A-08
B-F	1	B5.70		MRC-1/07	SG NOZZLE TO SAFE END	A-08
B-F	1	B5.70		MRC-1/19	STEAM GEN. NOZZLE TO SAFE END	A-08
B-F	2	B5.70		MRC-2/06	SAFE END TO SG NOZZLE	A-09
B-F	2	B5.70		MRC-2/07	SG NOZZLE TO SAFE END	A-09
B-F	2	B5 70		MRC-2/19	SG NOZZLE TO SAFE END	A-09
B-G-1	3	B6 10		RPV-G1-N-01	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6.10		RPV-G1-N-02	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-03	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-04	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-05	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6.10		RPV-G1-N-06	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6.10		RPV-G1-N-07	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-08	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-09	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-10	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6.10		RPV-G1-N-11	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-12	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6.10		RPV-G1-N-13	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-14	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-15	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6.10		RPV-G1-N-16	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6.10		RPV-G1-N-17	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6.10		RPV-G1-N-18	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-19	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-20	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-21	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-22	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-23	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-24	RPV CLOSURE HEAD NUT	A-01A
B-G-1	1	B6 10		RPV-G1-N-25	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-26	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6.10		RPV-G1-N-27	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-28	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-29	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-30	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-31	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-32	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-33	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-34	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-35	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-36	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6.10		RPV-G1-N-37	RPV CLOSURE HEAD NUT	A-01A

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B-G-1	3	B6 10		RPV-G1-N-38	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-39	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-40	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-41	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-42	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-43	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-44	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-45	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6 10		RPV-G1-N-46	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6.10		RPV-G1-N-47	RPV CLOSURE HEAD NUT	A-01A
B-G-1	3	B6.10		RPV-G1-N-48	RPV CLOSURE HEAD NUT	A-01A
B-G-1		B6 180		RCP-MF-RC3A-1-01	RCP STUDS	A-09B
B-G-1		B6.180		RCP-MF-RC3A-1-02	RCP STUDS	A-09B
B-G-1		B6.180		RCP-MF-RC3A-1-03	RCP STUDS	A-09B
B-G-1		B6.180		RCP-MF-RC3A-1-04	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-05	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-06	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-07	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-08	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-09	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-10	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-11	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-12	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-13	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-14	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-15	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3A-1-16	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-01	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-02	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-03	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-04	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-05	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-06	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-07	RCP STUDS	A-09B
B-G-1		B6.180		RCP-MF-RC3B-1-08	RCP STUDS	A-09B
B-G-1		B6.180		RCP-MF-RC3B-1-09	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-10	RCP STUDS	A-09B
B-G-1		B6.180		RCP-MF-RC3B-1-11	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-12	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-13	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-14	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-15	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3B-1-16	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-01	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-02	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-03	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-04	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-05	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-06	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-07	RCP STUDS	A-09B

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B-G-1	2	B6.180		RCP-MF-RC3C-1-08	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-09	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-10	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-11	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-12	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-13	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-14	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-15	RCP STUDS	A-09B
B-G-1	2	B6 180		RCP-MF-RC3C-1-16	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-01	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-02	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-03	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-04	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-05	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-06	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-07	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-08	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-09	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-10	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-11	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-12	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-13	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-14	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-15	RCP STUDS	A-09B
B-G-1		B6 180		RCP-MF-RC3D-1-16	RCP STUDS	A-09B
B-G-1		B6 190		RCP-MF-RC3A-2	FLANGE SURFACE	A-09B
B-G-1		B6 190		RCP-MF-RC3B-2	FLANGE SURFACE	A-09B
B-G-1		B6 190		RCP-MF-RC3C-2	FLANGE SURFACE	A-09B
B-G-1		B6 190		RCP-MF-RC3D-2	FLANGE SURFACE	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-01	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-02	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-03	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-04	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-05	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-06	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-07	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-08	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-09	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-10	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-11	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-12	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-13	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-14	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-15	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3A-3-16	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-01	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-02	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-03	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-04	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-05	RCP NUTS AND WASHERS	A-09B

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
B-G-1		B6 200		RCP-MF-RC3B-3-06	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-07	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-08	RCP NUTS AND WASHERS	A-09B
B-G-1		B6.200		RCP-MF-RC3B-3-09	RCP NUTS AND WASHERS	A-09B
B-G-1		B6.200		RCP-MF-RC3B-3-10	RCP NUTS AND WASHERS	A-09B
B-G-1		B6.200		RCP-MF-RC3B-3-11	RCP NUTS AND WASHERS	A-09B
B-G-1		B6.200		RCP-MF-RC3B-3-12	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-13	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-14	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-15	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3B-3-16	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-01	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-02	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-03	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-04	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-05	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-06	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-07	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-08	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6.200		RCP-MF-RC3C-3-09	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6.200		RCP-MF-RC3C-3-10	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6.200		RCP-MF-RC3C-3-11	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-12	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-13	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-14	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-15	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 200		RCP-MF-RC3C-3-16	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-01	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-02	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-03	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-04	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-05	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-06	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-07	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-08	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-09	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-10	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-11	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-12	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-13	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-14	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-15	RCP NUTS AND WASHERS	A-09B
B-G-1		B6 200		RCP-MF-RC3D-3-16	RCP NUTS AND WASHERS	A-09B
B-G-1	2	B6 30		RPV-G1-S-01	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-02	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-03	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-04	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-05	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-06	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6.30		RPV-G1-S-07	RPV CLOSURE HEAD STUD	A-01A

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B-G-1	3	B6 30		RPV-G1-S-08	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-09	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-10	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-11	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6.30		RPV-G1-S-12	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6.30		RPV-G1-S-13	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6.30		RPV-G1-S-14	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6.30		RPV-G1-S-15	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6.30		RPV-G1-S-16	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6.30		RPV-G1-S-17	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-18	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-19	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-20	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-21	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-22	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-23	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-24	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6.30		RPV-G1-S-25	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-26	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-27	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-28	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-29	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-30	RPV CLOSURE HEAD STUD	A-01A
B-G-1	3	B6 30		RPV-G1-S-31	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-32	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-33	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-34	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6.30		RPV-G1-S-35	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6.30		RPV-G1-S-36	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6.30		RPV-G1-S-37	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6.30		RPV-G1-S-38	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-39	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-40	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-41	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-42	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-43	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6.30		RPV-G1-S-44	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-45	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-46	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-47	RPV CLOSURE HEAD STUD	A-01A
B-G-1	2	B6 30		RPV-G1-S-48	RPV CLOSURE HEAD STUD	A-01A
B-G-1	1	B6 40		RPV-G1-FL-01	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-02	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-03	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-04	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-05	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-06	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-07	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-08	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-09	THREADS IN RPV FLANGE	A-01A

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B-G-1	1	B6 40		RPV-G1-FL-10	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6.40		RPV-G1-FL-11	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-12	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-13	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-14	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-15	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-16	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-17	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-18	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-19	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-20	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-21	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-22	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-23	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-24	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-25	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-26	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-27	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-28	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-29	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6.40		RPV-G1-FL-30	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6.40		RPV-G1-FL-31	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-32	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-33	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-34	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-35	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-36	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-37	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-38	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-39	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-40	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-41	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-42	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-43	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-44	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-45	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-46	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-47	THREADS IN RPV FLANGE	A-01A
B-G-1	1	B6 40		RPV-G1-FL-48	THREADS IN RPV FLANGE	A-01A
B-G-1	3	B6 50		RPV-G1-W-01	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-02	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-03	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6.50		RPV-G1-W-04	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6.50		RPV-G1-W-05	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-06	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-07	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-08	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-09	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-10	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-11	RPV CLOSURE HEAD WASHERS	A-01A

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
B-G-1	3	B6 50		RPV-G1-W-12	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-13	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-14	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-15	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-16	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-17	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-18	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-19	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-20	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-21	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-22	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-23	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-24	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-25	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-26	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-27	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6.50		RPV-G1-W-28	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6.50		RPV-G1-W-29	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6.50		RPV-G1-W-30	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-31	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-32	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-33	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-34	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6.50		RPV-G1-W-35	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-36	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-37	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-38	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-39	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-40	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-41	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-42	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-43	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-44	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-45	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-46	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-47	RPV CLOSURE HEAD WASHERS	A-01A
B-G-1	3	B6 50		RPV-G1-W-48	RPV CLOSURE HEAD WASHERS	A-01A
B-G-2	1	B7 20		PH-1	PRZ MANWAY BOLTING	A-04
B-G-2	1	B7.30		SG-1-1	INLET SIDE MANWAY BOLTING	A-05
B-G-2	1	B7 30		SG-1-2	OUTLET SIDE MANWAY BOLTING	A-05
B-G-2	2	B7 30		SG-2-1	INLET SIDE MANWAY BOLTING	A-06
B-G-2	2	B7 30		SG-2-2	OUTLET SIDE MANWAY BOLTING	A-06
B-G-2	1	B7.50		3-HPH-12/FE-316	FLANGE BOLTING	A-30
B-G-2	3	B7.50		3-HPH-14/FE-313	FLANGE BOLTING	A-31
B-G-2	3	B7 50		3-HPH-22/FE-319	FLANGE BOLTING	A-32
B-G-2	1	B7 50		3-HPH-24/FE-322	FLANGE BOLTING	A-33
B-G-2	2	B7.50		3-PSL-1B	FLANGE BOLTING	A-16
B-G-2	2	B7 50		3-PSL-2B	FLANGE BOLTING	A-16
B-G-2	1	B7 60		RCP-MF-RC3A-4	PUMP SEAL ASSEMBLY	A-09B
B-G-2	1	B7 60		RCP-MF-RC3B-4	PUMP SEAL ASSEMBLY	A-09B

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B-G-2	2	B7 60		RCP-MF-RC3C-4	PUMP SEAL ASSEMBLY	A-09B
B-G-2	2	B7.60		RCP-MF-RC3D-4	PUMP SEAL ASSEMBLY	A-09B
B-G-2	3	B7.70		12-SDC-20/HCV-347	VALVE BOLTING (VELAN 10.OG)	A-42
B-G-2	2	B7 70		12-SDC-20/HCV-348	VALVE BOLTING (VELAN 12.OG)	A-42
B-G-2	3	B7.70		2-AS-1/CH-469	BOLTING,ANCHOR-DARLING 2 OC	A-21
B-G-2	3	B7.70		2-AS-1/HCV-240	VALVE BOLTING, FISHER 2.OT	A-21
B-G-2	1	B7.70		2-CL-12/HCV-238	VALVE BOLTING, FISHER 2.OT	A-43
B-G-2	2	B7.70		2-CL-22/HCV-239	VALVE BOLTING, FISHER 2.OT	A-44
B-G-2	2	B7 70		2-LL-2/LCV-101-1	VALVE BOLTING, YARWAY 2 OX	A-46
B-G-2	2	B7.70		2-LL-2/LCV-101-2	VALVE BOLTING, YARWAY 2.OX	A-46
B-G-2	2	B7.70		2-LL-21/TCV-202	VALVE BOLTING, FISHER 2.OT	A-47
B-G-2	3	B7.70		2 5-PRL-2/PCV-102-2	VALVE BOLTING,DRESSER 2.5S	A-20
B-G-2	3	B7.70		2 5-PRL-3/PCV-102-1	VALVE BOLTING,DRESSER 2 5S	A-20
B-G-2	3	B7 70		3-PSL-1/RC-141	VALVE BOLTING	A-16
B-G-2	3	B7.70		3-PSL-2/RC-142	VALVE BOLTING	A-16
B-G-2	3	B7.70		3-PSS-14/PCV-103-2	VALVE BOLTING	A-17
B-G-2	3	B7.70		3-PSS-22/PCV-103-1	VALVE BOLTING	A-18
B-G-2		B7.80		RPVCH-CRD-G2-1-01	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-02	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-03	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-04	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-05	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-06	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-07	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-08	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-09	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-10	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-11	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-12	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-13	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-14	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-15	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-16	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-17	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-18	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-19	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-20	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-21	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-22	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-23	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-24	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-25	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-26	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-27	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-28	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-29	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-30	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-31	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-32	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7 80		RPVCH-CRD-G2-1-33	CRD BOLTING (IF DISASSEMBLED)	A-02A

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B-G-2		B7.80		RPVCH-CRD-G2-1-34	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-35	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-36	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-37	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-38	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-39	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-40	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-G-2		B7.80		RPVCH-CRD-G2-1-41	CRD BOLTING (IF DISASSEMBLED)	A-02A
B-J	1	B9.11		10-PSG-10/01A	SAFE END TO PIPE	A-14
B-J	1	B9.11		10-PSG-10/02	PIPE TO ELBOW	A-14
B-J	1	B9.11		10-PSG-10/03	ELBOW TO PIPE	A-14
B-J		B9.11		10-PSG-10/04	PIPE TO ELBOW	A-14
B-J		B9 11		10-PSG-10/05	ELBOW TO PIPE	A-14
B-J	3	B9 11		10-PSG-10/06	PIPE TO ELBOW	A-14
B-J	3	B9 11		10-PSG-10/07	ELBOW TO PIPE	A-14
B-J	3	B9 11		10-PSG-10/08	PIPE TO ELBOW	A-14
B-J	3	B9 11		10-PSG-10/09	ELBOW TO PIPE	A-14
B-J		B9 11		10-PSG-10/10	PIPE TO ELBOW	A-14
B-J		B9.11		10-PSG-10/11	ELBOW TO PIPE	A-14
B-J		B9.11		10-PSG-10/12	PIPE TO ELBOW	A-14
B-J		B9.11		10-PSG-10/13	ELBOW TO PIPE	A-14
B-J		B9 11		10-PSG-10/13A	PIPE TO PIPE	A-14
B-J		B9.11		10-PSG-10/14	PIPE TO ELBOW	A-14
B-J		B9 11		10-PSG-10/15	ELBOW TO PIPE	A-14
B-J	1	B9 11		10-PSG-10/16	PIPE TO BRANCH (32-RC-10)	A-14
B-J		B9 11		12-SDC-20/01	NOZZLE TO ELBOW	A-42
B-J	2	B9 11		12-SDC-20/02	ELBOW TO PIPE	A-42
B-J		B9 11		12-SDC-20/03	PIPE TO VALVE (HCV-348)	A-42
B-J		B9 11		12-SDC-20/04	VALVE (HCV-348) TO PIPE	A-42
B-J		B9.11		12-SDC-20/05	PIPE TO ELBOW	A-42
B-J		B9.11		12-SDC-20/06	ELBOW TO PIPE	A-42
B-J		B9.11		12-SDC-20/06A	PIPE TO PIPE	A-42
B-J		B9.11		12-SDC-20/07	PIPE TO ELBOW	A-42
B-J		B9.11		12-SDC-20/08	ELBOW TO PIPE	A-42
B-J	3	B9.11		12-SDC-20/09	PIPE TO ELBOW	A-42
B-J	3	B9.11		12-SDC-20/10	ELBOW TO PIPE	A-42
B-J	3	B9.11		12-SDC-20/11	PIPE TO ELBOW	A-42
B-J	1	B9.11		12-SDC-20/12	ELBOW TO PIPE	A-42
B-J	2	B9 11		12-SDC-20/13	PIPE TO PENETRATION	A-42
B-J		B9 11		12-SDC-20/14	PIPE TO PIPE	A-42
B-J		B9 11		12-SDC-20/15	PIPE TO PIPE BEND RADIUS	A-42
B-J	1	B9 11		12-SDC-20/16	PIPE BEND RADIUS TO ELBOW	A-42
B-J		B9 11		12-SDC-20/17	ELBOW TO ELBOW	A-42
B-J		B9 11		12-SDC-20/18	ELBOW TO PIPE	A-42
B-J	1	B9 11		12-SDC-20/18A	PIPE TO REDUCER	A-42
B-J		B9 11		12-SDC-20/19	REDUCER TO VALVE (HCV-347)	A-42
B-J		B9 11		12-SI-12/10	VALVE (SI-215) TO PIPE	A-22
B-J		B9 11		12-SI-12/11	PIPE TO TEE	A-22
B-J		B9 11		12-SI-12/12	TEE TO PIPE	A-22
B-J		B9 11		12-SI-12/12A	PIPE TO PIPE	A-22

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B-J		B9 11		12-SI-12/13	PIPE TO VALVE (SI-216)	A-22
B-J		B9 11		12-SI-12/14	VALVE (SI-216) TO ELBOW	A-22
B-J		B9 11		12-SI-12/15	ELBOW TO PIPE	A-22
B-J		B9 11		12-SI-12/15A	PIPE TO PIPE	A-22
B-J		B9 11		12-SI-12/16	PIPE TO ELBOW	A-22
B-J		B9 11		12-SI-12/17	ELBOW TO PIPE	A-22
B-J	1	B9.11		12-SI-12/18	PIPE TO ELBOW	A-22
B-J	1	B9 11		12-SI-12/19	ELBOW TO NOZZLE (24-RC-12)	A-22
B-J		B9 11		12-SI-14/13	VALVE (SI-219) TO PIPE	A-23
B-J		B9 11		12-SI-14/14	PIPE TO TEE	A-23
B-J		B9 11		12-SI-14/15	TEE TO PIPE	A-23
B-J	3	B9.11		12-SI-14/16	PIPE TO ELBOW	A-23
B-J	3	B9.11		12-SI-14/17	ELBOW TO PIPE	A-23
B-J		B9 11		12-SI-14/18	PIPE TO VALVE (SI-220)	A-23
B-J		B9 11		12-SI-14/19	VALVE (SI-220) TO PIPE	A-23
B-J		B9.11		12-SI-14/20	PIPE TO NOZZLE (24-RC-14)	A-23
B-J		B9.11		12-SI-22/13	VALVE (SI-207) TO PIPE	A-24
B-J	2	B9 11		12-SI-22/14	PIPE TO ELBOW	A-24
B-J	2	B9.11		12-SI-22/15	ELBOW TO PIPE	A-24
B-J		B9 11		12-SI-22/16	PIPE TO TEE	A-24
B-J		B9 11		12-SI-22/17	TEE TO PIPE	A-24
B-J		B9 11		12-SI-22/18	PIPE TO VALVE (SI-208)	A-24
B-J		B9.11		12-SI-22/19	VALVE (SI-208) TO ELBOW	A-24
B-J		B9 11		12-SI-22/20	ELBOW TO PIPE	A-24
B-J		B9 11		12-SI-22/21	PIPE TO ELBOW	A-24
B-J		B9 11		12-SI-22/22	ELBOW TO NOZZLE (24-RC-22)	A-24
B-J		B9 11		12-SI-24/09	VALVE (SI-211) TO PIPE	A-25
B-J	1	B9 11		12-SI-24/10	PIPE TO TEE	A-25
B-J		B9 11		12-SI-24/11	TEE TO PIPE	A-25
B-J		B9 11		12-SI-24/12	PIPE TO VALVE (SI-212)	A-25
B-J		B9 11		12-SI-24/13	VALVE (SI-212) TO PIPE	A-25
B-J		B9 11		12-SI-24/14	PIPE TO ELBOW	A-25
B-J		B9 11		12-SI-24/15	ELBOW TO PIPE	A-25
B-J		B9 11		12-SI-24/16	PIPE TO ELBOW	A-25
B-J		B9 11		12-SI-24/17	ELBOW TO PIPE	A-25
B-J		B9 11		12-SI-24/18	PIPE TO ELBOW	A-25
B-J		B9 11		12-SI-24/19	ELBOW TO NOZZLE	A-25
B-J		B9 11		4-PSL-1/02	REDUCING ELBOW TO 45 ELBOW	A-16
B-J	3	B9.11		4-PSL-1/03	45 ELBOW TO PIPE	A-16
B-J	3	B9 11		4-PSL-1/04	PIPE TO 45 ELBOW	A-16
B-J		B9.11		4-PSL-1/05	45 ELBOW TO REDUCING ELBOW	A-16
B-J		B9 11		4-PSL-2/02	REDUCING ELBOW TO 45 ELBOW	A-16
B-J		B9 11		4-PSL-2/03	45 ELBOW TO PIPE	A-16
B-J		B9 11		4-PSL-2/04	PIPE TO 45 ELBOW	A-16
B-J		B9.11		4-PSL-2/05	45 ELBOW TO REDUCING ELBOW	A-16
B-J		B9 11		4-PSS-1/01	TEE TO ELBOW	A-15
B-J		B9 11		4-PSS-1/01B	REDUCER TO TEE	A-15
B-J		B9 11		4-PSS-1/02A1	ELBOW TO PIPE	A-15
B-J		B9 11		4-PSS-1/02B1	PIPE TO VALVE (RC-374)	A-15
B-J		B9 11		4-PSS-1/02C2	VALVE (RC-374) TO PIPE	A-15

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B-J		B9 11		4-PSS-1/03B	REDUCER TO TEE	A-15
B-J		B9 11		4-PSS-1/03C	PIPE TO TEE	A-15
B-J	2	B9.11		4-PSS-1/04A	TEE TO PIPE	A-15
B-J	2	B9.11		4-PSS-1/05A1	PIPE TO ELBOW	A-15
B-J	2	B9 11		4-PSS-1/05B1	ELBOW TO ELBOW	A-15
B-J		B9 11		4-PSS-1/05C	ELBOW TO ELBOW	A-15
B-J		B9 11		4-PSS-1/06A	ELBOW TO PIPE	A-15
B-J	2	B9 11		4-PSS-1/07A	PUP TO SAFE END (316)	A-15
B-J		B9 11		4-PSS-1/07A1	PIPE (316) TO PUP (316)	A-15
B-J	3	B9.11		4-PSS-1/07B	SAFE END (316) TO SAFE END(600)	A-15
B-J		B9 11		6-SI-12/04	VALVE (SI-200) TO ELBOW	A-26
B-J		B9 11		6-SI-12/05	ELBOW TO PIPE	A-26
B-J	1	B9 11		6-SI-12/06	PIPE TO ELBOW	A-26
B-J		B9.11		6-SI-12/07	ELBOW TO PIPE	A-26
B-J		B9 11		6-SI-12/08	PIPE TO ELBOW	A-26
B-J	1	B9.11		6-SI-12/09	ELBOW TO PIPE	A-26
B-J	1	B9.11		6-SI-12/10	PIPE TO TEE	A-26
B-J		B9.11		6-SI-14/04	VALVE (SI-203) TO ELBOW	A-27
B-J		B9.11		6-SI-14/05	ELBOW TO PIPE	A-27
B-J		B9.11		6-SI-14/06	PIPE TO ELBOW	A-27
B-J		B9 11		6-SI-14/07	ELBOW TO PIPE	A-27
B-J		B9 11		6-SI-14/08	PIPE TO ELBOW	A-27
B-J		B9 11		6-SI-14/09	ELBOW TO PIPE	A-27
B-J		B9 11		6-SI-14/10	PIPE TO ELBOW	A-27
B-J		B9.11		6-SI-14/11	ELBOW TO PIPE	A-27
B-J	3	B9 11		6-SI-14/12	PIPE TO ELBOW	A-27
B-J	3	B9 11		6-SI-14/13	ELBOW TO PIPE	A-27
B-J	3	B9 11		6-SI-14/14	PIPE TO TEE	A-27
B-J	3	B9 11		6-SI-22/03	VALVE (SI-194) TO ELBOW	A-28
B-J	3	B9 11		6-SI-22/04	ELBOW TO PIPE	A-28
B-J		B9.11		6-SI-22/05	PIPE TO ELBOW	A-28
B-J		B9 11		6-SI-22/06	ELBOW TO PIPE	A-28
B-J	2	B9.11		6-SI-22/07	PIPE TO ELBOW	A-28
B-J		B9 11		6-SI-22/08	ELBOW TO PIPE	A-28
B-J		B9.11		6-SI-22/09	PIPE TO ELBOW	A-28
B-J		B9.11		6-SI-22/10	ELBOW TO PIPE	A-28
B-J	2	B9 11		6-SI-22/11	PIPE TO ELBOW	A-28
B-J		B9 11		6-SI-22/12	ELBOW TO PIPE	A-28
B-J		B9 11		6-SI-22/13	PIPE TO ELBOW	A-28
B-J	2	B9 11		6-SI-22/14	ELBOW TO PIPE	A-28
B-J	2	B9 11		6-SI-22/15	PIPE TO TEE	A-28
B-J		B9 11		6-SI-24/04	VALVE (SI-197) TO ELBOW	A-29
B-J		B9 11		6-SI-24/05	ELBOW TO PIPE	A-29
B-J		B9.11		6-SI-24/05A	PIPE TO PIPE	A-29
B-J		B9.11		6-SI-24/05B	PIPE TO PIPE	A-29
B-J		B9.11		6-SI-24/06	PIPE TO ELBOW	A-29
B-J		B9.11		6-SI-24/07	ELBOW TO PIPE	A-29
B-J	1	B9.11		6-SI-24/08	PIPE TO ELBOW	A-29
B-J		B9.11		6-SI-24/09	ELBOW TO PIPE	A-29
B-J	1	B9.11		6-SI-24/10	PIPE TO TEE	A-29

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B-J		B9 11		MRC-1/02	SAFE END TO PIPE	A-08
B-J		B9 11		MRC-1/03	PIPE TO PIPE	A-08
B-J		B9.11		MRC-1/04	PIPE TO ELBOW	A-08
B-J		B9 11		MRC-1/05	ELBOW TO SAFE END	A-08
B-J		B9 11		MRC-1/08	SAFE END TO ELBOW	A-08
B-J		B9.11		MRC-1/09	ELBOW TO PIPE	A-08
B-J		B9.11		MRC-1/10	PIPE TO ELBOW	A-08
B-J		B9 11		MRC-1/11	ELBOW TO PIPE	A-08
B-J		B9 11		MRC-1/12	PIPE TO ELBOW	A-08
B-J		B9 11		MRC-1/13	ELBOW TO PUMP (RC3B)	A-08
B-J		B9 11		MRC-1/14	PUMP (RC3B) TO PIPE	A-08
B-J		B9 11		MRC-1/15	PIPE TO ELBOW	A-08
B-J		B9 11		MRC-1/16	ELBOW TO PIPE	A-08
B-J		B9 11		MRC-1/17	PIPE TO SAFE END	A-08
B-J		B9 11		MRC-1/20	SAFE END TO ELBOW	A-08
B-J		B9 11		MRC-1/21	ELBOW TO PIPE	A-08
B-J		B9.11		MRC-1/22	PIPE TO ELBOW	A-08
B-J		B9.11		MRC-1/23	ELBOW TO PIPE	A-08
B-J		B9.11		MRC-1/24	PIPE TO ELBOW	A-08
B-J		B9.11		MRC-1/25	ELBOW TO PUMP (RC3A)	A-08
B-J		B9.11		MRC-1/26	PUMP (RC3A) TO PIPE	A-08
B-J		B9.11		MRC-1/27	PIPE TO ELBOW	A-08
B-J		B9.11		MRC-1/28	ELBOW TO PIPE	A-08
B-J		B9.11		MRC-1/29	PIPE TO SAFE END	A-08
B-J		B9.11		MRC-2/02	SAFE END TO PIPE	A-09
B-J		B9.11		MRC-2/03	PIPE TO PIPE	A-09
B-J		B9.11		MRC-2/04	PIPE TO ELBOW	A-09
B-J		B9.11		MRC-2/05	ELBOW TO SAFE END	A-09
B-J	2	B9.11		MRC-2/08	SAFE END TO ELBOW	A-09
B-J		B9.11		MRC-2/09	ELBOW TO PIPE	A-09
B-J		B9.11		MRC-2/10	PIPE TO ELBOW	A-09
B-J		B9.11		MRC-2/11	ELBOW TO PIPE	A-09
B-J		B9.11		MRC-2/12	PIPE TO ELBOW	A-09
B-J		B9 11		MRC-2/13	ELBOW TO PUMP (RC3C)	A-09
B-J		B9 11		MRC-2/14	PUMP (RC3C) TO PIPE	A-09
B-J		B9.11		MRC-2/15	PIPE TO ELBOW	A-09
B-J		B9 11		MRC-2/16	ELBOW TO PIPE	A-09
B-J		B9 11		MRC-2/17	PIPE TO SAFE END	A-09
B-J	2	B9 11		MRC-2/20	SAFE END TO ELBOW	A-09
B-J		B9 11		MRC-2/21	ELBOW TO PIPE	A-09
B-J		B9 11		MRC-2/22	PIPE TO ELBOW	A-09
B-J		B9 11		MRC-2/23	ELBOW TO PIPE	A-09
B-J		B9 11		MRC-2/24	PIPE TO ELBOW	A-09
B-J		B9 11		MRC-2/25	ELBOW TO PUMP (RC3D)	A-09
B-J		B9 11		MRC-2/26	PUMP (RC3D) TO PIPE	A-09
B-J		B9 11		MRC-2/27	PIPE TO ELBOW	A-09
B-J		B9 11		MRC-2/28	ELBOW TO PIPE	A-09
B-J		B9 11		MRC-2/29	PIPE TO SAFE END	A-09
B-J		B9 21		2-LL-2/01	PIPE TO ELBOW (2 1/2")	A-46
B-J		B9 21		2-LL-2/02	ELBOW TO REDUCER (2 1/2')	A-46

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B-J	2	B9 21		2 5-PRL-2/01	REDUCER TO PIPE	A-20
B-J		B9 21		2.5-PRL-2/02	PIPE TO ELBOW	A-20
B-J		B9 21		2.5-PRL-2/03	ELBOW TO PIPE	A-20
B-J		B9 21		2.5-PRL-2/04	PIPE TO ELBOW	A-20
B-J	2	B9.21		2.5-PRL-2/05	ELBOW TO PIPE	A-20
B-J	2	B9.21		2.5-PRL-2/06	PIPE TO ELBOW	A-20
B-J		B9.21		2 5-PRL-2/07	ELBOW TO PIPE	A-20
B-J		B9.21		2 5-PRL-2/08	PIPE TO VALVE (HCV-150)	A-20
B-J		B9.21		2 5-PRL-2/09	VALVE (HCV-150) TO PIPE	A-20
B-J	3	B9.21		2 5-PRL-2/10	PIPE TO ELBOW	A-20
B-J	3	B9 21		2.5-PRL-2/11	ELBOW TO VALVE (PCV-102-2)	A-20
B-J		B9 21		2 5-PRL-3/12	REDUCER TO PIPE	A-20
B-J		B9 21		2 5-PRL-3/13	PIPE TO ELBOW	A-20
B-J		B9 21		2 5-PRL-3/14	ELBOW TO PIPE	A-20
B-J		B9 21		2 5-PRL-3/15	PIPE TO ELBOW	A-20
B-J		B9 21		2 5-PRL-3/16	ELBOW TO PIPE	A-20
B-J	2	B9 21		2.5-PRL-3/17	PIPE TO ELBOW	A-20
B-J	2	B9 21		2.5-PRL-3/18	ELBOW TO PIPE	A-20
B-J		B9 21		2 5-PRL-3/19	PIPE TO VALVE (HCV-151)	A-20
B-J		B9 21		2.5-PRL-3/20	VALVE (HCV-151) TO PIPE	A-20
B-J	3	B9 21		2 5-PRL-3/21	PIPE TO ELBOW	A-20
B-J	3	B9 21		2.5-PRL-3/22	ELBOW TO VALVE (PCV-102-1)	A-20
B-J	3	B9.21		3-HPH-12/01	REDUCER TO TEE	A-30
B-J		B9 21		3-HPH-12/03	TEE TO PIPE	A-30
B-J	1	B9 21		3-HPH-12/04	PIPE TO FLANGE (FE-316)	A-30
B-J	1	B9 21		3-HPH-12/05	FLANGE TO PIPE (FE-316)	A-30
B-J		B9.21		3-HPH-12/06	PIPE TO ELBOW	A-30
B-J		B9 21		3-HPH-12/07	ELBOW TO PIPE	A-30
B-J		B9 21		3-HPH-12/08	PIPE TO ELBOW	A-30
B-J		B9 21		3-HPH-12/09	ELBOW TO PIPE	A-30
B-J		B9 21		3-HPH-12/10	PIPE TO PIPE	A-30
B-J	1	B9 21		3-HPH-12/11	PIPE TO NOZZLE (12-SI-12)	A-30
B-J		B9 21		3-HPH-14/01	REDUCER TO TEE	A-31
B-J		B9.21		3-HPH-14/02	REDUCER TO TEE	A-31
B-J	1	B9.21		3-HPH-14/03	TEE TO PIPE	A-31
B-J		B9 21		3-HPH-14/04	PIPE TO FLANGE	A-31
B-J		B9.21		3-HPH-14/05	FLANGE TO PIPE	A-31
B-J	3	B9.21		3-HPH-14/06	PIPE TO ELBOW	A-31
B-J		B9.21		3-HPH-14/07	ELBOW TO ELBOW	A-31
B-J	3	B9.21		3-HPH-14/08	ELBOW TO PIPE	A-31
B-J	3	B9.21		3-HPH-14/09	PIPE TO ELBOW	A-31
B-J		B9.21		3-HPH-14/10	ELBOW TO PIPE	A-31
B-J	3	B9 21		3-HPH-14/11	PIPE TO ELBOW	A-31
B-J		B9 21		3-HPH-14/12	ELBOW TO PIPE	A-31
B-J		B9 21		3-HPH-14/13	PIPE TO ELBOW	A-31
B-J		B9 21		3-HPH-14/14	ELBOW TO PIPE	A-31
B-J		B9 21		3-HPH-14/15	PIPE TO ELBOW	A-31
B-J		B9 21		3-HPH-14/16	ELBOW TO NOZZLE (12-SI-14)	A-31
B-J		B9.21		3-HPH-22/01	REDUCER TO TEE	A-32
B-J		B9 21		3-HPH-22/03	TEE TO PIPE	A-32

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B-J		B9.21		3-HPH-22/04	PIPE TO FLANGE	A-32
B-J		B9.21		3-HPH-22/05	FLANGE TO PIPE	A-32
B-J		B9.21		3-HPH-22/06	PIPE TO ELBOW	A-32
B-J		B9 21		3-HPH-22/07	ELBOW TO PIPE	A-32
B-J		B9 21		3-HPH-22/08	PIPE TO ELBOW	A-32
B-J		B9 21		3-HPH-22/09	ELBOW TO PIPE	A-32
B-J		B9 21		3-HPH-22/10	PIPE TO NOZZLE (12-SI-22)	A-32
B-J	1	B9 21		3-HPH-24/01	REDUCER TO TEE	A-33
B-J		B9 21		3-HPH-24/03	TEE TO PIPE	A-33
B-J		B9.21		3-HPH-24/04	PIPE TO FLANGE	A-33
B-J		B9 21		3-HPH-24/05	FLANGE TO PIPE	A-33
B-J		B9 21		3-HPH-24/06	PIPE TO ELBOW	A-33
B-J	1	B9 21		3-HPH-24/07	ELBOW TO PIPE	A-33
B-J	1	B9 21		3-HPH-24/08	PIPE TO ELBOW	A-33
B-J		B9 21		3-HPH-24/09	ELBOW TO PIPE	A-33
B-J		B9 21		3-HPH-24/09A	PIPE TO PIPE	A-33
B-J		B9.21		3-HPH-24/10	PIPE TO NOZZLE (12-SI-24)	A-33
B-J	3	B9.21		3-PRL-1/01	RED (INCL 600) TO SAFE END(316)	A-19
B-J	2	B9 21		3-PRL-1/02	PIPE TO ELBOW	A-19
B-J	2	B9 21		3-PRL-1/02A	SAFE END (316) TO PIPE	A-19
B-J	2	B9 21		3-PRL-1/03	ELBOW TO PIPE	A-19
B-J		B9 21		3-PRL-1/04	PIPE TO ELBOW	A-19
B-J		B9 21		3-PRL-1/05	ELBOW TO PIPE	A-19
B-J	2	B9 21		3-PRL-1/06	PIPE TO ELBOW	A-19
B-J		B9 21		3-PRL-1/07	ELBOW TO PIPE	A-19
B-J		B9 21		3-PRL-1/08	PIPE TO TEE	A-19
B-J		B9 21		3-PRL-1/09	TEE TO REDUCER	A-19
B-J		B9 21		3-PRL-1/10	TEE TO REDUCER	A-19
B-J	2	B9 21		3-PSL-1/01	FLANGE TO REDUCING ELBOW	A-16
B-J	2	B9 21		3-PSL-1/06	REDUCING ELBOW TO PIPE	A-16
B-J	2	B9 21		3-PSL-1/07	REDUCING ELBOW TO VALVE RC-141	A-16
B-J		B9 21		3-PSL-2/01	FLANGE TO REDUCING ELBOW	A-16
B-J		B9.21		3-PSL-2/06	REDUCING ELBOW TO PIPE	A-16
B-J		B9.21		3-PSL-2/07	REDUCING ELBOW TO VALVE RC-142	A-16
B-J	1	B9.21		3-PSS-14/01	NOZZLE (24-RC-14) TO ELBOW	A-17
B-J	1	B9.21		3-PSS-14/02	ELBOW TO PIPE	A-17
B-J		B9 21		3-PSS-14/03	PIPE TO ELBOW, CLAMP ON WELD	A-17
B-J		B9 21		3-PSS-14/04	ELBOW TO PIPE	A-17
B-J		B9 21		3-PSS-14/05	PIPE TO ELBOW	A-17
B-J		B9 21		3-PSS-14/06	ELBOW TO PIPE	A-17
B-J	3	B9 21		3-PSS-14/07	PIPE TO ELBOW	A-17
B-J	3	B9 21		3-PSS-14/08	ELBOW TO PIPE	A-17
B-J		B9 21		3-PSS-14/09	PIPE TO ELBOW	A-17
B-J		B9 21		3-PSS-14/10	ELBOW TO PIPE	A-17
B-J		B9 21		3-PSS-14/11	PIPE TO ELBOW	A-17
B-J		B9 21		3-PSS-14/12	ELBOW TO PIPE	A-17
B-J		B9 21		3-PSS-14/13	PIPE TO ELBOW	A-17
B-J		B9 21		3-PSS-14/14	ELBOW TO PIPE	A-17
B-J		B9.21		3-PSS-14/15	PIPE TO PIPE	A-17
B-J		B9.21		3-PSS-14/16	PIPE TO ELBOW	A-17

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B-J		B9 21		3-PSS-14/17	ELBOW TO PIPE	A-17
B-J		B9 21		3-PSS-14/18	PIPE TO ELBOW	A-17
B-J		B9 21		3-PSS-14/19	ELBOW TO PIPE	A-17
B-J		B9 21		3-PSS-14/20	PIPE TO TEE	A-17
B-J		B9 21		3-PSS-14/21	TEE TO PIPE	A-17
B-J		B9 21		3-PSS-14/21A	PIPE TO PIPE	A-17
B-J		B9 21		3-PSS-14/21B	PIPE TO ELBOW	A-17
B-J		B9 21		3-PSS-14/21C	ELBOW TO PIPE	A-17
B-J	3	B9 21		3-PSS-14/22A	PIPE TO VALVE (PCV-103-2)	A-17
B-J		B9 21		3-PSS-14/23A	VALVE (PCV-103-2) TO PIPE	A-17
B-J	3	B9.21		3-PSS-14/24	PIPE TO ELBOW	A-17
B-J	3	B9 21		3-PSS-14/25	ELBOW TO PIPE	A-17
B-J		B9 21		3-PSS-14/26	PIPE TO ELBOW	A-17
B-J		B9 21		3-PSS-14/27	ELBOW TO REDUCER	A-17
B-J		B9 21		3-PSS-22/01	NOZZLE (24-RC-22) TO ELBOW	A-18
B-J		B9 21		3-PSS-22/02	ELBOW TO PIPE	A-18
B-J		B9 21		3-PSS-22/03	PIPE TO ELBOW	A-18
B-J		B9 21		3-PSS-22/04	ELBOW TO PIPE	A-18
B-J		B9 21		3-PSS-22/05	PIPE TO ELBOW	A-18
B-J		B9 21		3-PSS-22/06	ELBOW TO ELBOW	A-18
B-J		B9 21		3-PSS-22/07	ELBOW TO PIPE	A-18
B-J		B9 21		3-PSS-22/08	PIPE TO ELBOW	A-18
B-J		B9 21		3-PSS-22/09	ELBOW TO PIPE	A-18
B-J		B9 21		3-PSS-22/10	PIPE TO ELBOW	A-18
B-J		B9 21		3-PSS-22/11	ELBOW TO PIPE	A-18
B-J		B9 21		3-PSS-22/12	PIPE TO ELBOW	A-18
B-J		B9 21		3-PSS-22/12A	PIPE TO PIPE	A-18
B-J		B9 21		3-PSS-22/13	PIPE TO ELBOW	A-18
B-J		B9 21		3-PSS-22/14	ELBOW TO PIPE	A-18
B-J		B9 21		3-PSS-22/15	PIPE TO ELBOW	A-18
B-J		B9.21		3-PSS-22/16	ELBOW TO PIPE	A-18
B-J		B9.21		3-PSS-22/17	PIPE TO ELBOW	A-18
B-J		B9.21		3-PSS-22/18	ELBOW TO PIPE	A-18
B-J		B9.21		3-PSS-22/19	PIPE TO ELBOW	A-18
B-J		B9 21		3-PSS-22/20	ELBOW TO PIPE	A-18
B-J		B9.21		3-PSS-22/21	PIPE TO ELBOW	A-18
B-J		B9 21		3-PSS-22/22	ELBOW TO PIPE	A-18
B-J		B9.21		3-PSS-22/23	PIPE TO TEE	A-18
B-J		B9.21		3-PSS-22/24	TEE TO PIPE	A-18
B-J		B9.21		3-PSS-22/24A	PIPE TO PIPE	A-18
B-J		B9 21		3-PSS-22/24B	PIPE TO ELBOW	A-18
B-J		B9 21		3-PSS-22/24C	ELBOW TO PIPE	A-18
B-J	3	B9 21		3-PSS-22/25A	PIPE TO VALVE (PCV-103-1)	A-18
B-J		B9.21		3-PSS-22/26A	VALVE (PCV-103-1) TO PIPE	A-18
B-J		B9.21		3-PSS-22/27	PIPE TO ELBOW	A-18
B-J	3	B9 21		3-PSS-22/28	ELBOW TO PIPE	A-18
B-J	3	B9.21		3-PSS-22/29	PIPE TO ELBOW	A-18
B-J	3	B9 21		3-PSS-22/30	ELBOW TO PIPE	A-18
B-J		B9 21		3-PSS-22/31	PIPE TO TEE	A-18
B-J	1	B9 31		MRC-1/03B	BRANCH CONNECTION (10-PSG-10)	A-08

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B-J	1	B9 31		MRC-1/14A	BRANCH CONNECTION (12-SI-12)	A-08
B-J		B9.31		MRC-1/26B	BRANCH CONNECTION (12-SI-14)	A-08
B-J		B9 31		MRC-2/03A	BRANCH CONNECTION (12-SDC-20)	A-09
B-J		B9 31		MRC-2/14C	BRANCH CONNECTION (12-SI-22)	A-09
B-J		B9.31		MRC-2/26A	BRANCH CONNECTION (12-SI-24)	A-09
B-J		B9.32		12-SI-12/12-BC	BRANCH CONNECTION (3-HPH-12)	A-22
B-J		B9.32		12-SI-14/17-BC	BRANCH CONNECTION (3-HPH-14)	A-23
B-J	2	B9.32		12-SI-22/15-BC	BRANCH CONNECTION (3-HPH-22)	A-24
B-J	3	B9.32		12-SI-24/11-BC	BRANCH CONNECTION (3-HPH-24)	A-25
B-J		B9.32		MRC-1/03A	BRANCH CONNECTION (2-DL-10)	A-08
B-J		B9.32		MRC-1/11A	BRANCH CONNECTION (2-DL-11)	A-08
B-J	1	B9 32		MRC-1/14B	BRANCH CONNECTION (2-CL-12)	A-08
B-J		B9 32		MRC-1/23A	BRANCH CONNECTION (2-DL-13)	A-08
B-J		B9 32		MRC-1/26A	BRANCH CONNECTION (3-PSS-14)	A-08
B-J		B9 32		MRC-2/11A	BRANCH CONNECTION (2-LL-21)	A-09
B-J		B9 32		MRC-2/14A	BRANCH CONNECTION (2-CL-22)	A-09
B-J		B9 32		MRC-2/14B	BRANCH CONNECTION (3-PSS-22)	A-09
B-J		B9.32		MRC-2/23A	BRANCH CONNECTION (2-DL-23)	A-09
B-J		B9 40		2-AS-1/01	VALVE (HCV-240) TO PIPE	A-21
B-J		B9 40		2-AS-1/01A	VALVE (HCV-249) TO PIPE	A-21
B-J	3	B9 40		2-AS-1/01B	PIPE TO ELBOW	A-21
B-J	3	B9 40		2-AS-1/01B1	VALVE TO PIPE (CH-469)	A-21
B-J		B9 40		2-AS-1/01B2	PIPE TO VALVE (CH-469)	A-21
B-J		B9 40		2-AS-1/01B3	TEE TO PIPE	A-21
B-J		B9 40		2-AS-1/01B4	TEE TO REDUCER	A-21
B-J		B9.40		2-AS-1/01B5	PIPE TO TEE	A-21
B-J	3	B9 40		2-AS-1/01C	ELBOW TO PIPE	A-21
B-J	3	B9.40		2-AS-1/01D	PIPE TO TEE	A-21
B-J	3	B9.40		2-AS-1/01E	PIPE TO TEE	A-21
B-J	3	B9 40		2-AS-1/02	PIPE TO VALVE (CH-205)	A-21
B-J	3	B9 40		2-AS-1/02A	TEE TO PIPE	A-21
B-J	3	B9 40		2-AS-1/03	VALVE (CH-205) TO PIPE	A-21
B-J	3	B9 40		2-AS-1/04	PIPE TO ELBOW	A-21
B-J		B9 40		2-AS-1/05	ELBOW TO PIPE	A-21
B-J	2	B9 40		2-AS-1/06	PIPE TO ELBOW	A-21
B-J	2	B9 40		2-AS-1/07	ELBOW TO PIPE	A-21
B-J		B9 40		2-AS-1/07A	PIPE TO COUPLING	A-21
B-J		B9 40		2-AS-1/07B	COUPLING TO PIPE	A-21
B-J	2	B9 40		2-AS-1/08	PIPE TO ELBOW	A-21
B-J	2	B9 40		2-AS-1/09	ELBOW TO PIPE	A-21
B-J		B9 40		2-AS-1/10A	PIPE TO REDUCER	A-21
B-J		B9 40		2-AS-1/05A	PIPE TO COUPLING	A-21
B-J		B9 40		2-AS-1/05B	COUPLING TO PIPE	A-21
B-J		B9 40		2-CL-1/77	VALVE (CH-202) TO PIPE	A-43
B-J		B9 40		2-CL-1/78	PIPE TO ELBOW	A-43
B-J		B9 40		2-CL-1/79	ELBOW TO PIPE	A-43
B-J		B9 40		2-CL-1/80	PIPE TO VALVE (CH-345)	A-43
B-J		B9 40		2-CL-12/01	VALVE (HCV-238) TO PIPE	A-43
B-J		B9 40		2-CL-12/02	PIPE TO TEE	A-43
B-J		B9.40		2-CL-12/02A	PIPE TO TEE	A-43

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B-J		B9.40		2-CL-12/02B	VALVE (CH-345) TO PIPE	A-43
B-J		B9.40		2-CL-12/03	TEE TO PIPE	A-43
B-J		B9 40		2-CL-12/04	PIPE TO VALVE (CH-203)	A-43
B-J		B9 40		2-CL-12/05	VALVE (CH-203) TO PIPE	A-43
B-J		B9 40		2-CL-12/06	PIPE TO ELBOW	A-43
B-J		B9 40		2-CL-12/07	ELBOW TO PIPE	A-43
B-J		B9 40		2-CL-12/08	PIPE TO ELBOW	A-43
B-J		B9 40		2-CL-12/09	ELBOW TO PIPE	A-43
B-J		B9 40		2-CL-12/10	PIPE TO ELBOW	A-43
B-J		B9 40		2-CL-12/11	ELBOW TO PIPE	A-43
B-J		B9 40		2-CL-12/12	PIPE TO ELBOW	A-43
B-J		B9 40		2-CL-12/13	ELBOW TO PIPE	A-43
B-J	1	B9 40		2-CL-12/14	PIPE TO ELBOW	A-43
B-J	1	B9.40		2-CL-12/15	ELBOW TO PIPE	A-43
B-J	1	B9 40		2-CL-12/16	PIPE TO ELBOW	A-43
B-J	1	B9 40		2-CL-12/17	ELBOW TO PIPE	A-43
B-J	1	B9 40		2-CL-12/18	PIPE TO NOZZLE (24-RC-12)	A-43
B-J		B9 40		2-CL-22/01	VALVE (HCV-239) TO PIPE	A-44
B-J		B9 40		2-CL-22/02	PIPE TO ELBOW	A-44
B-J		B9 40		2-CL-22/03	ELBOW TO PIPE	A-44
B-J		B9 40		2-CL-22/04	PIPE TO VALVE (CH-204)	A-44
B-J	2	B9 40		2-CL-22/05	VALVE (CH-204) TO PIPE	A-44
B-J	2	B9 40		2-CL-22/06	PIPE TO TEE	A-44
B-J	2	B9 40		2-CL-22/06A	TEE TO REDUCER	A-44
B-J	2	B9 40		2-CL-22/07	TEE TO PIPE	A-44
B-J		B9 40		2-CL-22/08	PIPE TO ELBOW	A-44
B-J		B9 40		2-CL-22/09	ELBOW TO PIPE	A-44
B-J		B9 40		2-CL-22/10	PIPE TO ELBOW	A-44
B-J		B9 40		2-CL-22/11	ELBOW TO PIPE	A-44
B-J		B9 40		2-CL-22/12	PIPE TO NOZZLE (24-RC-22)	A-44
B-J		B9 40		2-DL-10/01	NOZZLE TO PIPE (32-RC-10)	A-10
B-J		B9 40		2-DL-10/02	PIPE TO ELBOW	A-10
B-J		B9 40		2-DL-10/03	ELBOW TO PIPE	A-10
B-J		B9 40		2-DL-10/04	PIPE TO TEE	A-10
B-J		B9 40		2-DL-10/04A	TEE TO REDUCER	A-10
B-J		B9 40		2-DL-10/05	TEE TO PIPE	A-10
B-J		B9 40		2-DL-10/06	PIPE TO VALVE (RC-128)	A-10
B-J		B9 40		2-DL-10/07	VALVE TO PIPE	A-10
B-J		B9 40		2-DL-10/08	PIPE TO TEE	A-10
B-J		B9 40		2-DL-10/09	TEE TO REDUCER	A-10
B-J		B9 40		2-DL-10/10	TEE TO PIPE	A-10
B-J		B9 40		2-DL-10/11	PIPE TO VALVE (RC-122)	A-10
B-J		B9 40		2-DL-11/01	NOZZLE (32-RC-11) TO PIPE	A-11
B-J		B9 40		2-DL-11/02	PIPE TO ELBOW	A-11
B-J		B9 40		2-DL-11/03	ELBOW TO PIPE	A-11
B-J		B9 40		2-DL-11/04	PIPE TO VALVE (RC-124)	A-11
B-J		B9 40		2-DL-11/05	VALVE (RC-124) TO PIPE	A-11
B-J		B9 40		2-DL-11/06	PIPE TO VALVE (RC-132)	A-11
B-J		B9 40		2-DL-13/01	NOZZLE (24-RC-13)TO PIPE	A-12
B-J		B9 40		2-DL-13/02	PIPE TO ELBOW	A-12

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B-J		B9 40		2-DL-13/03	ELBOW TO PIPE	A-12
B-J		B9 40		2-DL-13/04	PIPE TO VALVE (RC-123)	A-12
B-J		B9 40		2-DL-13/05	VALVE (RC-123)TO PIPE	A-12
B-J		B9 40		2-DL-13/06	PIPE TO ELBOW	A-12
B-J		B9.40		2-DL-13/07	ELBOW TO PIPE	A-12
B-J		B9.40		2-DL-13/08	PIPE TO VALVE (RC-130)	A-12
B-J		B9.40		2-DL-23/01	NOZZLE (24-RC-23)TO PIPE	A-13
B-J		B9 40		2-DL-23/02	PIPE TO ELBOW	A-13
B-J		B9.40		2-DL-23/03	ELBOW TO PIPE	A-13
B-J		B9.40		2-DL-23/04	PIPE TO VALVE (RC-112)	A-13
B-J		B9 40		2-DL-23/05	VALVE (RC-112) TO PIPE	A-13
B-J		B9 40		2-DL-23/06	PIPE TO ELBOW	A-13
B-J		B9 40		2-DL-23/07	ELBOW TO PIPE	A-13
B-J		B9 40		2-DL-23/08	PIPE TO VALVE (RC-1-35)	A-13
B-J	3	B9 40		2-HPH-1.12/13	VALVE (SI-102) TO PIPE	A-35
B-J	3	B9 40		2-HPH-1.12/14	PIPE TO ELBOW	A-35
B-J	3	B9 40		2-HPH-1.12/15	ELBOW TO PIPE	A-35
B-J	3	B9.40		2-HPH-1.12/16	PIPE TO ELBOW	A-35
B-J	3	B9 40		2-HPH-1.12/17	ELBOW TO PIPE	A-35
B-J	3	B9 40		2-HPH-1 12/18	PIPE TO TEE	A-35
B-J	1	B9 40		2-HPH-1.14/25	VALVE (SI-205) TO PIPE	A-34
B-J	1	B9 40		2-HPH-1.14/26	PIPE TO ELBOW	A-34
B-J		B9 40		2-HPH-1 14/27	ELBOW TO PIPE	A-34
B-J	1	B9 40		2-HPH-1 14/28	PIPE TO ELBOW	A-34
B-J	1	B9 40		2-HPH-1.14/29	ELBOW TO PIPE	A-34
B-J		B9 40		2-HPH-1 14/30	PIPE TO ELBOW	A-34
B-J		B9 40		2-HPH-1.14/31	ELBOW TO PIPE	A-34
B-J	3	B9 40		2-HPH-1.14/32	PIPE TO ELBOW	A-34
B-J	3	B9 40		2-HPH-1.14/33	ELBOW TO PIPE	A-34
B-J	3	B9 40		2-HPH-1.14/34	PIPE TO REDUCER	A-34
B-J	2	B9 40		2-HPH-1.22/12	VALVE (SI-196) TO PIPE	A-36
B-J	2	B9 40		2-HPH-1.22/13	PIPE TO ELBOW	A-36
B-J	2	B9 40		2-HPH-1 22/14	ELBOW TO PIPE	A-36
B-J		B9 40		2-HPH-1.22/15	PIPE TO ELBOW	A-36
B-J		B9 40		2-HPH-1.22/16	ELBOW TO PIPE	A-36
B-J	1	B9 40		2-HPH-1.22/17	PIPE TO ELBOW	A-36
B-J		B9 40		2-HPH-1 22/18	ELBOW TO PIPE	A-36
B-J	1	B9 40		2-HPH-1.22/19	PIPE TO ELBOW	A-36
B-J	1	B9 40		2-HPH-1.22/20	ELBOW TO PIPE	A-36
B-J		B9 40		2-HPH-1.22/21	PIPE TO ELBOW	A-36
B-J		B9 40		2-HPH-1 22/22	ELBOW TO PIPE	A-36
B-J		B9 40		2-HPH-1.22/23	PIPE TO ELBOW	A-36
B-J		B9 40		2-HPH-1.22/24	ELBOW TO PIPE	A-36
B-J		B9 40		2-HPH-1 22/25	PIPE TO ELBOW	A-36
B-J		B9 40		2-HPH-1 22/26	ELBOW TO PIPE	A-36
B-J		B9 40		2-HPH-1.22/27	PIPE TO TEE	A-36
B-J		B9 40		2-HPH-1.24/11	VALVE (SI-199) TO PIPE	A-37
B-J	1	B9 40		2-HPH-1.24/12	PIPE TO ELBOW	A-37
B-J	1	B9 40		2-HPH-1.24/13	ELBOW TO PIPE	A-37
B-J	1	B9 40		2-HPH-1.24/14	PIPE TO ELBOW	A-37

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B-J	1	B9 40		2-HPH-1.24/15	ELBOW TO PIPE	A-37
B-J	1	B9 40		2-HPH-1.24/16	PIPE TO TEE	A-37
B-J	2	B9 40		2-HPH-2.12/11	VALVE (SI-201) TO PIPE	A-38
B-J	2	B9 40		2-HPH-2.12/12	PIPE TO ELBOW	A-38
B-J	2	B9 40		2-HPH-2.12/13	ELBOW TO PIPE	A-38
B-J		B9 40		2-HPH-2.12/14	PIPE TO ELBOW	A-38
B-J		B9 40		2-HPH-2.12/15	ELBOW TO PIPE	A-38
B-J	1	B9 40		2-HPH-2.12/16	PIPE TO ELBOW	A-38
B-J	1	B9 40		2-HPH-2.12/17	ELBOW TO PIPE	A-38
B-J	2	B9 40		2-HPH-2.12/18	PIPE TO ELBOW	A-38
B-J	2	B9 40		2-HPH-2.12/19	ELBOW TO PIPE	A-38
B-J		B9 40		2-HPH-2.12/20	PIPE TO COUPLING	A-38
B-J		B9 40		2-HPH-2 12/21	COUPLING TO PIPE BEND RADIUS	A-38
B-J	2	B9 40		2-HPH-2 12/22	PIPE BEND RADIUS TO ELBOW	A-38
B-J	2	B9 40		2-HPH-2 12/23	ELBOW TO PIPE	A-38
B-J		B9.40		2-HPH-2 12/24	PIPE TO ELBOW	A-38
B-J	1	B9 40		2-HPH-2 12/25	ELBOW TO PIPE	A-38
B-J		B9 40		2-HPH-2.12/26	PIPE TO REDUCER	A-38
B-J	2	B9 40		2-HPH-2 14/23	VALVE (SI-204) TO PIPE	A-39
B-J	2	B9 40		2-HPH-2 14/24	PIPE TO ELBOW	A-39
B-J	2	B9 40		2-HPH-2.14/25	ELBOW TO PIPE	A-39
B-J		B9 40		2-HPH-2.14/26	PIPE TO ELBOW	A-39
B-J		B9 40		2-HPH-2.14/27	ELBOW TO PIPE	A-39
B-J	2	B9 40		2-HPH-2.14/28	PIPE TO ELBOW	A-39
B-J	2	B9 40		2-HPH-2.14/29	ELBOW TO PIPE	A-39
B-J		B9 40		2-HPH-2.14/30	PIPE TO REDUCER	A-39
B-J		B9 40		2-HPH-2.14/31	PIPE TO COUPLING	A-39
B-J		B9 40		2-HPH-2.14/32	COUPLING TO PIPE	A-39
B-J		B9 40		2-HPH-2 22/18	VALVES (SI-195) TO PIPE	A-40
B-J		B9 40		2-HPH-2 22/19	PIPE TO ELBOW	A-40
B-J	1	B9 40		2-HPH-2.22/20	ELBOW TO PIPE	A-40
B-J		B9 40		2-HPH-2 22/21	PIPE TO ELBOW	A-40
B-J		B9 40		2-HPH-2 22/22	ELBOW TO PIPE	A-40
B-J		B9 40		2-HPH-2 22/23	PIPE TO ELBOW	A-40
B-J		B9 40		2-HPH-2 22/24	ELBOW TO PIPE	A-40
B-J		B9 40		2-HPH-2 22/25	PIPE TO ELBOW	A-40
B-J		B9 40		2-HPH-2 22/26	ELBOW TO PIPE	A-40
B-J	1	B9 40		2-HPH-2.22/27	PIPE TO ELBOW	A-40
B-J	1	B9 40		2-HPH-2.22/28	ELBOW TO PIPE	A-40
B-J		B9 40		2-HPH-2 22/29	PIPE TO REDUCER	A-40
B-J		B9.40		2-HPH-2.24/11	VALVE (SI-198) TO PIPE	A-41
B-J		B9 40		2-HPH-2 24/12	PIPE TO ELBOW	A-41
B-J	1	B9 40		2-HPH-2 24/13	ELBOW TO PIPE	A-41
B-J		B9 40		2-HPH-2 24/14	PIPE TO ELBOW	A-41
B-J		B9 40		2-HPH-2 24/15	ELBOW TO PIPE	A-41
B-J		B9 40		2-HPH-2 24/16	PIPE TO ELBOW	A-41
B-J		B9 40		2-HPH-2 24/17	ELBOW TO PIPE	A-41
B-J		B9 40		2-HPH-2 24/18	PIPE TO ELBOW	A-41
B-J	1	B9 40		2-HPH-2 24/19	ELBOW TO PIPE	A-41
B-J		B9 40		2-HPH-2 24/20	PIPE TO COUPLING	A-41

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
B-J		B9 40		2-HPH-2 24/21	COUPLING TO PIPE	A-41
B-J	1	B9 40		2-HPH-2 24/22	PIPE TO REDUCER	A-41
B-J		B9 40		2-LL-1/01	VALVE (TCV-202) TO PIPE	A-45
B-J		B9 40		2-LL-1/02	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/03	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/04	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/05	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/06	PIPE TO COUPLING	A-45
B-J		B9 40		2-LL-1/07	COUPLING TO PIPE	A-45
B-J		B9 40		2-LL-1/08	PIPE TO ELBOW	A-45
B-J		B9.40		2-LL-1/09	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/10	PIPE TO ELBOW	A-45
B-J		B9.40		2-LL-1/11	ELBOW TO PIPE	A-45
B-J		B9.40		2-LL-1/12	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/13	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/14	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/15	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/16	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/17	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/18	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/19	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/20	PIPE TO COUPLING	A-45
B-J		B9 40		2-LL-1/21	COUPLING TO PIPE	A-45
B-J		B9 40		2-LL-1/22	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/23	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/24	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/25	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/26	PIPE TO COUPLING	A-45
B-J		B9 40		2-LL-1/27	COUPLING TO PIPE	A-45
B-J		B9.40		2-LL-1/28	PIPE TO TEE	A-45
B-J		B9.40		2-LL-1/29	TEE TO PIPE	A-45
B-J		B9 40		2-LL-1/29A	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/31	TEE TO REDUCER	A-45
B-J		B9 40		2-LL-1/39	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/40	PIPE TO ELBOW	A-45
B-J		B9 40		2-LL-1/41	ELBOW TO PIPE	A-45
B-J		B9 40		2-LL-1/42	PIPE TO COUPLING	A-45
B-J		B9 40		2-LL-1/43	COUPLING TO PIPE	A-45
B-J		B9 40		2-LL-2/03	REDUCER TO PIPE (2")	A-46
B-J		B9 40		2-LL-2/04	PIPE TO TEE	A-46
B-J		B9 40		2-LL-2/04A	TEE TO REDUCER	A-46
B-J		B9 40		2-LL-2/05	TEE TO PIPE	A-46
B-J		B9 40		2-LL-2/06	PIPE TO ELBOW	A-46
B-J		B9 40		2-LL-2/07	ELBOW TO PIPE	A-46
B-J		B9 40		2-LL-2/08	PIPE TO TEE	A-46
B-J		B9 40		2-LL-2/09	TEE TO REDUCER	A-46
B-J		B9 40		2-LL-2/10	TEE TO PIPE	A-46
B-J		B9.40		2-LL-2/11	PIPE TO ELBOW	A-46
B-J		B9 40		2-LL-2/12	ELBOW TO PIPE	A-46
B-J		B9 40		2-LL-2/13	PIPE TO ELBOW (45 DEGREE)	A-46

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B-J		B9 40		2-LL-2/14	ELBOW TO PIPE (45 DEGREE)	A-46
B-J		B9 40		2-LL-2/15	PIPE TO ELBOW (45 DEGREE)	A-46
B-J		B9 40		2-LL-2/16	ELBOW TO PIPE (45 DEGREE)	A-46
B-J		B9.40		2-LL-2/17	PIPE TO ELBOW	A-46
B-J		B9 40		2-LL-2/18	ELBOW TO PIPE	A-46
B-J		B9 40		2-LL-2/19	PIPE TO TEE	A-46
B-J		B9 40		2-LL-2/20	TEE TO PIPE	A-46
B-J		B9 40		2-LL-2/21	PIPE TO VALVE (CH-260)	A-46
B-J		B9 40		2-LL-2/22	VALVE (CH-260) TO PIPE	A-46
B-J		B9.40		2-LL-2/23	PIPE TO ELBOW	A-46
B-J		B9 40		2-LL-2/24	ELBOW TO PIPE	A-46
B-J		B9 40		2-LL-2/25	PIPE TO VALVE (LCV-101-1)	A-46
B-J		B9 40		2-LL-2/26	TEE TO PIPE	A-46
B-J		B9.40		2-LL-2/27	PIPE TO ELBOW	A-46
B-J		B9 40		2-LL-2/28	ELBOW TO PIPE	A-46
B-J		B9 40		2-LL-2/29	PIPE TO VALVE (CH-340)	A-46
B-J		B9 40		2-LL-2/30	VALVE (CH-340) TO PIPE	A-46
B-J		B9 40		2-LL-2/31	PIPE TO ELBOW	A-46
B-J		B9 40		2-LL-2/32	ELBOW TO PIPE	A-46
B-J		B9 40		2-LL-2/33	PIPE TO VALVE (LCV-101-2)	A-46
B-J		B9.40		2-LL-21/01	NOZZLE (24-RC-21) TO ELBOW	A-47
B-J		B9 40		2-LL-21/02	ELBOW TO PIPE	A-47
B-J		B9 40		2-LL-21/03	PIPE TO TEE	A-47
B-J		B9 40		2-LL-21/04	TEE TO PIPE	A-47
B-J		B9 40		2-LL-21/04A	TEE TO PIPE	A-47
B-J		B9 40		2-LL-21/05	PIPE TO VALVE (RC-113)	A-47
B-J		B9 40		2-LL-21/06	VALVE (RC-113) TO PIPE	A-47
B-J		B9 40		2-LL-21/07	PIPE TO VALVE (RC-134)	A-47
B-J		B9 40		2-LL-21/08	PIPE TO ELBOW	A-47
B-J		B9 40		2-LL-21/09	ELBOW TO PIPE	A-47
B-J		B9 40		2-LL-21/10	PIPE TO ELBOW	A-47
B-J		B9 40		2-LL-21/11	ELBOW TO PIPE	A-47
B-J		B9 40		2-LL-21/12	PIPE TO ELBOW	A-47
B-J		B9.40		2-LL-21/13	ELBOW TO PIPE	A-47
B-J		B9 40		2-LL-21/13A	PIPE TO VALVE (RC-375)	A-47
B-J	2	B9 40		2-LL-21/13B	VALVE TO PIPE	A-47
B-J	2	B9 40		2-LL-21/14	PIPE TO VALVE (TCV-202)	A-47
B-J		B9 40		2-PSS-15/51	TEE TO PIPE	A-17
B-J		B9 40		2-PSS-15/52	PIPE TO ELBOW	A-17
B-J		B9 40		2-PSS-15/53	ELBOW TO REDUCER	A-17
B-J		B9 40		2-PSS-23/51	TEE TO PIPE	A-18
B-J		B9 40		2-PSS-23/52	PIPE TO ELBOW	A-18
B-J		B9 40		2-PSS-23/53	ELBOW TO REDUCER	A-18
B-K	1	B10 10		PRZ-3-405	SUPPORT SKIRT WELD	A-03
B-K		B10.10		SG-1-SL-1	INTEGRAL ATTACHMENT	A-05
B-K		B10.10		SG-1-SL-2	INTEGRAL ATTACHMENT	A-05
B-K		B10.10		SG-1-SL-3	INTEGRAL ATTACHMENT	A-05
B-K		B10 10		SG-1-SL-4	INTEGRAL ATTACHMENT	A-05
B-K	2	B10 10		SG-2-SL-1	INTEGRAL ATTACHMENT	A-06
B-K	2	B10 10		SG-2-SL-2	INTEGRAL ATTACHMENT	A-06

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B-K	2	B10 10		SG-2-SL-3	INTEGRAL ATTACHMENT	A-06
B-K	2	B10 10		SG-2-SL-4	INTEGRAL ATTACHMENT	A-06
B-K	2	B10 20		12-SDC-20/13-PL-1	INTEGRAL ATTACHMENT	A-42
B-K	2	B10.20		12-SDC-20/13-PL-2	INTEGRAL ATTACHMENT	A-42
B-K	3	B10.20		12-SDC-20/13-PL-3	INTEGRAL ATTACHMENT	A-42
B-K	1	B10 20		12-SDC-20/13-PL-4	INTEGRAL ATTACHMENT	A-42
B-K		B10 30		RCP-RC3A-SL-1	PUMP INTEGRAL ATTACHMENT	A-09A
B-K		B10 30		RCP-RC3A-SL-2	PUMP INTEGRAL ATTACHMENT	A-09A
B-K		B10 30		RCP-RC3A-SL-3	PUMP INTEGRAL ATTACHMENT	A-09A
B-K		B10 30		RCP-RC3B-SL-1	PUMP INTEGRAL ATTACHMENT	A-09A
B-K		B10 30		RCP-RC3B-SL-2	PUMP INTEGRAL ATTACHMENT	A-09A
B-K		B10 30		RCP-RC3B-SL-3	PUMP INTEGRAL ATTACM4ENT	A-09A
B-K	3	B10 30		RCP-RC3C-SL-1	PUMP INTEGRAL ATTACHMENT	A-09A
B-K	3	B10 30		RCP-RC3C-SL-2	PUMP INTEGRAL ATTACHMENT	A-09A
B-K	1	B10 30		RCP-RC3C-SL-3	PUMP INTEGRAL ATTACHMENT	A-09A
B-K		B10 30		RCP-RC3D-SL-1	PUMP INTEGRAL ATTACHMENT	A-09A
B-K		B10 30		RCP-RC3D-SL-2	PUMP INTEGRAL ATTACHMENT	A-09A
B-K		B10 30		RCP-RC3D-SL-3	PUMP INTEGRAL ATTACHMENT	A-09A
B-L-1		B12 10		RCP-PC-RC3A-1	PRESSURE RETAINING WELD	A-09A
B-L-1		B12 10		RCP-PC-RC3B-1	PRESSURE RETAINING WELD	A-09A
B-L-1	1	B12 10		RCP-PC-RC3C-1	PRESSURE RETAINING WELD	A-09A
B-L-1		B12.10		RCP-PC-RC3D-1	PRESSURE RETAINING WELD	A-09A
B-L-2		B12 20		RCP-PC-RC3A-2	INTERNAL SURFACES	A-09A
B-L-2		B12 20		RCP-PC-RC3B-2	INTERNAL SURFACES	A-09A
B-L-2		B12 20		RCP-PC-RC3C-2	INTERNAL SURFACES	A-09A
B-L-2		B12 20		RCP-PC-RC3D-2	INTERNAL SURFACES	A-09A
B-M-1		B12 30		2-AS-1/CH-205	VALVE BODY WELD, DRESSER 2 OC	A-21
B-M-1	3	B12 30		2-CL-1/CH-202	VALVE BODY WELD, VELAN 2.OC	A-43
B-M-1	1	B12 30		2-CL-1/CH-345	VALVE BODY WELD, DRESSER 2 OG	A-43
B-M-1		B12 30		2-CL-12/CH-203	VALVE BODY WELD, DRESSER 2.OC	A-43
B-M-1	2	B12 30		2-CL-22/CH-204	VALVE BODY WELD, DRESSER 2.OC	A-44
B-M-1	3	B12 30		2-DL-10/RC-122	VALVE BODY WELD, DRESSER 2 OT	A-10
B-M-1		B12 30		2-DL-10/RC-128	VALVE BODY WELD, DRESSER 2 OT	A-10
B-M-1		B12 30		2-DL-11/RC-124	VALVE BODY WELD, DRESSER 2 OT	A-11
B-M-1		B12 30		2-DL-13/RC-123	VALVE BODY WELD, DRESSER 2 OT	A-12
B-M-1		B12 30		2-DL-13/RC-130	VALVE BODY WELD, DRESSER 2.OT	A-12
B-M-1		B12 30		2-DL-23/RC-112	VALVE BODY WELD, DRESSER 2.OT	A-13
B-M-1		B12 30		2-HPH-1.12/SI-202	VALVE BODY WELD, DRESSER 2.0C	A-35
B-M-1		B12 30		2-HPH-1.14/SI-205	VALVE BODY WELD, DRESSER 2.OC	A-34
B-M-1		B12 30		2-HPH-1.22/SI-196	VALVE BODY WELD, DRESSER 2.OC	A-36
B-M-1		B12 30		2-HPH-1.24/SI-199	VALVE BODY WELD, DRESSER 2.OC	A-37
B-M-1		B12 30		2-HPH-2 12/SI-201	VALVE BODY WELD, DRESSER 2.OC	A-38
B-M-1		B12 30		2-HPH-2 14/SI-204	VALVE BODY WELD, DRESSER 2.OC	A-39
B-M-1		B12 30		2-HPH-2 22/SI-195	VALVE BODY WELD, DRESSER 2 OC	A-40
B-M-1	1	B12 30		2-HPH-2 24/SI-198	VALVE BODY WELD, DRESSER 2 OC	A-41
B-M-1		B12 30		2-LL-2/CH-260	VALVE BODY WELD, DRESSER 2 OG	A-46
B-M-1	2	B12 30		2-LL-2/CH-340	VALVE BODY WELD, DRESSER 2.OG	A-46
B-M-1	2	B12 30		2-LL-21/RC-134	VALVE BODY WELD, DRESSER 2 0T	A-47
B-M-1		B12 30		2 5-PRL-2/PCV-102-1-M1	VALVE BODY WELD, DRESSER 2 5S	A-20
B-M-1		B12 30		2 5-PRL-2/PCV-102-2-M1	VALVE BODY WELD, DRESSER 2 5S	A-20

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B-M-1	3	B12.40		12-SDC-20/HCV-347-MI	VALVE BODY WELD (INLET SIDE)	A-42
B-M-2	*	B12.50		12-SDC-20/HCV-347-M2	VALVE INTERNALS, VELAN 10 OG	A-42
B-M-2	*	B12 50		12-SDC-20/HCV-348-M2	VALVE INTERNALS, VELAN 12.OG	A-42
B-M-2	*	B12 50		12-SI-12/SI-215-M2	VALVE INTERNALS, MISSION 12.OC	A-22
B-M-2	*	B12 50		12-SI-12/SI-216-M2	VALVE INTERNALS, MISSION 12 OC	A-22
B-M-2	*	B12 50		12-SI-14/SI-219-M2	VALVE INTERNALS, MISSION 12 OC	A-23
B-M-2	*	B12 50		12-SI-14/SI-220-M2	VALVE INTERNALS, MISSION 12 OC	A-23
B-M-2	*	B12 50		12-SI-22/SI-207-M2	VALVE INTERNALS, MISSION 12 OC	A-24
B-M-2	*	B12 50		12-SI-22/SI-208-M2	VALVE INTERNALS, MISSION 12 OC	A-24
B-M-2	*	B12 50		12-SI-24/SI-211-M2	VALVE INTERNALS, MISSION 12 OC	A-25
B-M-2	*	B12 50		12-SI-24/SI-212-M2	VALVE INTERNALS, MISSION 12 OC	A-25
B-M-2	*	B12.50		6-SI-12/SI-200-M2	VALVE INTERNALS, MISSION 6 OC	A-26
B-M-2	*	B12.50		6-SI-14/SI-203-M2	VALVE INTERNALS, MISSION 6 OC	A-27
B-M-2	*	B12 50		6-SI-22/SI-194-M2	VALVE INTERNALS, MISSION 6 OC	A-28
B-M-2	*	B12.50		6-SI-24/SI-197-M2	VALVE INTERNALS, MISSION 6 OC	A-29
B-N-1	1,2,3	B13 10		RPV-N1-1	VESSEL INTERIOR	A-01
B-N-2	3	B13 50		RPV-SC-A	SURVEILLANCE CAPSULE	A-01B
B-N-2	3	B13 50		RPV-SC-B	SURVEILLANCE CAPSULE	A-01B
B-N-2	3	B13 50		RPV-SC-C	SURVEILLANCE CAPSULE	A-01B
B-N-2	3	B13 50		RPV-SC-D	SURVEILLANCE CAPSULE	A-01B
B-N-2	3	B13.50		RPV-SC-E	SURVEILLANCE CAPSULE	A-01B
B-N-2	3	B13 50		RPV-SC-F	SURVEILLANCE CAPSULE	A-01B
B-N-2	3	B13 60		RPV-CS-A	CORE SUPPORT LUGS	A-01B
B-N-2	3	B13 60		RPV-CS-B	CORE SUPPORT LUGS	A-01B
B-N-2	3	B13.60		RPV-CS-C	CORE SUPPORT LUGS	A-01B
B-N-2	3	B13.60		RPV-CS-D	CORE SUPPORT LUGS	A-01B
B-N-2	3	B13.60		RPV-CS-E	CORE SUPPORT LUGS	A-01B
B-N-2	3	B13.60		RPV-CS-F	CORE SUPPORT LUGS	A-01B
B-N-2	3	B13 60		RPV-SL-A	CORE STOP LUG	A-01B
B-N-2	3	B13 60		RPV-SL-B	CORE STOP LUG	A-01B
B-N-2	3	B13 60		RPV-SL-C	CORE STOP LUG	A-01B
B-N-2	3	B13 60		RPV-SL-D	CORE STOP LUG	A-01B
B-N-2	3	B13 60		RPV-SL-E	CORE STOP LUG	A-01B
B-N-2	3	B13 60		RPV-SL-F	CORE STOP LUG	A-01B
B-N-2	3	B13 60		RPV-SL-G	CORE STOP LUG	A-01B
B-N-2	3	B13 60		RPV-SL-H	CORE STOP LUG	A-01B
B-N-2	3	B13 60		RPV-SL-J	CORE STOP LUG	A-01B
B-N-3	3	B13 70		RPV-N3-CSS-1	CORE SUPPORT STRUCTURE	A-01
B-O		B14 10		RPVCH-CRD-BO-01	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-01-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-01-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-01-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-02	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-02-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-02-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-02-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-03	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-03-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-03-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-03-3	CEDM HOUSING WELD	A-02A

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B-O		B14 10		RPVCH-CRD-BO-04	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-04-1	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-04-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-04-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-05	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-05-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-05-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-05-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-06	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-06-1	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-06-2	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-06-3	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-07	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-07-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-07-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-07-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-08	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-08-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-08-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-08-3	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-09	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-09-1	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-09-2	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-09-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-10	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-10-1	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-10-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-10-3	CEEM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-11	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-11-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-11-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-11-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-12	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-12-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-12-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-12-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-13	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-13-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-13-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-13-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-14	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-14-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-14-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-14-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-15	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-15-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-15-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-15-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-16	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-16-1	CEDM HOUSING WELD	A-02A

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B-O		B14.10		RPVCH-CRD-BO-16-2	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-16-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-17	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-17-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-17-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-17-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-18	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-18-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-18-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-18-3	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-19	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-19-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-19-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-19-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-20	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-20-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-20-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-20-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-21	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-21-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-21-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-21-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-22	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-22-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-22-2	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-22-3	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-23	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-23-1	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-23-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-23-3	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-24	CEVM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-24-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-24-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-24-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-25	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-25-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-25-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-25-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-26	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-26-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-26-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-26-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-27	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-27-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-27-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-27-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-28	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-28-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-28-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-28-3	CEDM HOUSING WELD	A-02A

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B-O		B14 10		RPVCH-CRD-BO-29	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-29-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-29-2	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-29-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-30	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-30-1	CFDH HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-30-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-30-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-31	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-31-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-31-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-31-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-32	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-32-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-32-2	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-32-3	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-33	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-33-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-33-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-33-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-34	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-34-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-34-2	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-34-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-35	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-35-1	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-35-2	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-35-3	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-36	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-36-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-36-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-36-3	CEDM HOUSING WELD	A-02A
B-O	3	B14 10		RPVCH-CRD-BO-37	CEDM HOUSING WELD	A-02A
B-O	3	B14 10		RPVCH-CRD-BO-37-1	CEDM HOUSING WELD	A-02A
B-O	3	B14 10		RPVCH-CRD-BO-37-2	CEDM HOUSING WELD	A-02A
B-O	2	B14 10		RPVCH-CRD-BO-37-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-38	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-38-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-38-2	CEDM HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-38-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-39	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-39-1	CEDN HOUSING WELD	A-02A
B-O		B14.10		RPVCH-CRD-BO-39-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-39-3	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-40	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-40-1	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-40-2	CEDM HOUSING WELD	A-02A
B-O		B14 10		RPVCH-CRD-BO-40-3	CEDM HOUSING WELD	A-02A
B-O	1	B14 10		RPVCH-CRD-BO-41	CEDM HOUSING WELD	A-02A
B-O	1	B14 10		RPVCH-CRD-BO-41-1	CEDM HOUSING WELD	A-02A

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B-O	2	B14.10		RPVCH-CRD-BO-41-2	CEDM HOUSING WELD	A-02A
B-O	2	B14.10		RPVCH-CRD-BO-41-3	CEDM HOUSING WELD	A-02A
F-A	3	F1.10	C	10-PSG-10/05-PR-2	SPRING CAN	A-14
F-A	3	F1.10	A	10-PSG-10/07-PR-1	STRUT, U-BOLT	A-14
F-A		F1.10	A	10-PSG-10/09-PR-1	STRUT, 3-BOLT	A-14
F-A		F1.10	A	10-PSG-10/09-PR-2	STRUT, 3-BOLT	A-14
F-A		F1.10	C	10-PSG-10/13-PR-1	SPRING CAN	A-14
F-A	2	F1.10	B	12-SDC-20/04-PR-3	PEDESTAL, U-BOLT	A-42
F-A		F1.10	B	12-SDC-20/08-PR-1	PEDESTAL, U-BOLT	A-42
F-A	1	F1.10	A	12-SDC-20/08-PR-3	STRUT, 3-BOLT	A-42
F-A		F1.10	C	12-SDC-20/19-PR	DUAL SPRING CAN, COMPLEX	A-42
F-A	3	F1.10	A	12-SI-12/14-PR	TRAPEZE, SADDLE, U-BOLT	A-22
F-A		F1.10	A	12-SI-12/14-PS	WHIP RESTRAINT	A-22
F-A		F1.10	A	12-SI-14/15-PR	ROD, 3-BOLT	A-23
F-A		F1.10	A	12-SI-22/13-PR	ROD, 3-BOLT	A-24
F-A	2	F1.10	B	12-SI-22/17-PR	PED, U-BOLT	A-24
F-A		F1.10	A	12-SI-24/14-PS-1	WHIP RESTRAINT	A-25
F-A		F1.10	A	12-SI-24/15-PR-1	TRAPEZE, SADDLE, U-BOLT	A-25
F-A		F1.10	B	2-AS-1/240-PR-2	PED, DUAL U-BOLT	A-21
F-A		F1.10	B	2-AS-1/249-PR-2	PED, SADDLE, DUAL U-BOLT	A-21
F-A		F1.10	B	2-CL-12/07-PR	ANGLE	A-43
F-A		F1.10	B	2-CL-12/11-PR	ANGLE, U-BOLT	A-43
F-A		F1.10	B	2-CL-12/238-PR-2	DUAL PED, U-BOLTS	A-43
F-A		F1.10	B	2-CL-22/01-PR	DUAL PED, U-BOLTS	A-44
F-A	2	F1.10	B	2-CL-22/07-PR	PIPE RESTRAINT	A-44
F-A		F1.10	B	2-DL-10/07-PR	PED SUPPORT, DUAL U-BOLT	A-10
F-A		F1.10	B	2-HPH-1.14/25-PR	PEDESTAL, U-BOLT	A-34
F-A		F1.10	B	2-HPH-1.22/12-PR	PEDESTAL, U-BOLT	A-36
F-A		F1.10	A	2-HPH-1 22/18-PR-1	ROD AND CLEVIS	A-36
F-A		F1.10	B	2-HPH-1 22/18-PR-2	ANGLE, U-BOLT	A-36
F-A		F1.10	B	2-HPH-1 22/22-PR-1	ANGLE, U-BOLT	A-36
F-A		F1.10	B	2-HPH-1.22/22-PR-2	ANGLE, U-BOLT	A-36
F-A	1	F1.10	B	2-HPH-1 24/11-PR	PEDESTAL, U-BOLT	A-37
F-A	1	F1.10	B	2-HPH-2.12/11-PR	PEDESTAL, U-BOLT	A-38
F-A		F1.10	B	2-HPH-2 12/17-PR	ANGLE, U-BOLT	A-38
F-A	1,3	F1.10	B	2-HPH-2.12/19-PR-1	ANGLE, U-BOLT	A-38
F-A		F1.10	A	2-HPH-2 12/19-PR-2	ROD AND CLEVIS	A-38
F-A		F1.10	A	2-HPH-2 12/21-PR	ROD AND CLEVIS	A-38
F-A		F1.10	B	2-HPH-2.14/23-PR	PEDESTAL, U-BOLT	A-39
F-A		F1.10	A	2-HPH-2.14/29-PR	PIPE RESTRAINT	A-39
F-A		F1.10	B	2-HPH-2 22/18-PR	PEDESTAL, U-BOLT	A-40
F-A		F1.10	B	2-HPH-2 24/13-PR	ANGLE, U-BOLT	A-41
F-A	1	F1.10	B	2-HPH-2 24/15-PR	UNISTRUT	A-41
F-A	1	F1.10	B	2-HPH-2 24/19-PR-2	UNISTRUT	A-41
F-A	1	F1.10	B	2-HPH-2.24/19-PR-3	UNISTRUT	A-41
F-A		F1.10	B	2-LL-1/03-PR	BOX RESTRAINT	A-45
F-A		F1.10	B	2-LL-1/05-PR	ANGLE, U-BOLT	A-45
F-A	2	F1.10	B	2-LL-1/15-PR-1	ANGLE, U-BOLT	A-45
F-A		F1.10	B	2-LL-1/15-PR-2	ANGLE, U-BOLT	A-45
F-A		F1.10	B	2-LL-1/19-PR	ANGLE, U-BOLT	A-45

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F-A		F1.10	B	2-LL-1/26-PR-1	ANGLE, U-BOLT	A-46
F-A	3	F1.10	B	2-LL-1/26-PR-2	ANGLE, U-BOLT	A-46
F-A	3	F1.10	B	2-LL-1/27-PR	ANGLE, U-BOLT	A-45
F-A		F1.10	B	2-LL-1/29-PR	ANGLE, U-BOLT	A-45
F-A		F1.10	B	2-LL-21/202-PR-2	PEDESTAL, U-BOLT	A-47
F-A	3	F1.10	C	2 5-PRL-2/01-PR-1	SPRING CAN, ROD, 3-BOLT	A-20
F-A		F1.10	A	2.5-PRL-2/150-PR	PED, I-BEAM	A-20
F-A		F1.10	C	2 5-PRL-3/12-PR	SPRING CAN, ROD, 3-BOLT	A-20
F-A		F1.10	A	2.5-PRL-3/18-PR	STRUT, 3-BOLT	A-20
F-A		F1.10	B	3-HPH-12/03-PR-1	3/4 BOX	A-30
F-A		F1 10	A	3-HPH-12/03-PR-2	ROD, 3-BOLT, TURNBUCKLE	A-30
F-A		F1.10	B	3-HPH-12/09-PR	ANGLE, 3-BOLT	A-30
F-A		F1 10	A	3-HPH-14/03-PR-1	ROD, 3-BOLT	A-31
F-A		F1.10	B	3-HPH-14/05-PR-1	FULL BOX	A-31
F-A	3	F1 10	A	3-HPH-14/10-PR-1	STRUT, 3-BOLT	A-31
F-A		F1.10	B	3-HPH-14/10-PR-2	FULL BOX	A-31
F-A		F1.10	B	3-HPH-22/01-PR	BOX	A-32
F-A		F1.10	B	3-HPH-22/05-PR	BOX	A-32
F-A		F1.10	A	3-HPH-22/07-PR	STRUT, 3-BOLT	A-32
F-A		F1.10	B	3-HPH-24/03-PR	ANGLE, U-BOLT	A-33
F-A		F1.10	A	3-HPH-24/03-PR-1	ROD, 3-BOLT, TURNBUCKLE	A-33
F-A		F1.10	A	3-HPH-24/09-PR	ANGLE, 3-BOLT	A-33
F-A		F1.10	C	3-PRL-1/07-PR	SPRING CAN, ROD, 3-BOLT	A-19
F-A	1	F1.10	A	3-PSS-14/02-PR-2	STRUT, 3-BOLT	A-17
F-A		F1.10	B	3-PSS-14/10-PR	FULL BOX	A-17
F-A		F1.10	B	3-PSS-14/10-PR-1	3/4 BOX	A-17
F-A		F1.10	C	3-PSS-14/12-PR	SPRING CAN	A-17
F-A	3	F1.10	B	3-PSS-14/22-PR	DUAL BOX	A-17
F-A		F1.10	B	3-PSS-14/23-PR-2	PED, DUAL 3-BOLT	A-17
F-A		F1.10	A	3-PSS-22/02-PR-2	PLATE, 3-BOLT	A-18
F-A		F1 10	A	3-PSS-22/02-PR-4	ROD, 3-BOLT	A-18
F-A		F1.10	C	3-PSS-22/09-PR-1	DUAL S/C, TRAP, U/B	A-18
F-A		F1 10	B	3-PSS-22/09-PR-5	PEDESTAL, SADDLE	A-18
F-A		F1.10	C	3-PSS-22/12-PR-2	PED, SPRING CAN	A-18
F-A		F1.10	C	3-PSS-22/12-PR-5	PED, S/C, SADDLE U/B	A-18
F-A		F1 10	C	3-PSS-22/13-PR-1	SPRING CAN, ROD	A-18
F-A		F1 10	A	3-PSS-22/14-PR-1	PLATE, 3-BOLT	A-18
F-A		F1 10	A	3-PSS-22/16-PR-2	STRUT, 3-BOLT, T/B	A-18
F-A		F1 10	B	3-PSS-22/24-PR-1	FULL BOX, DUAL	A-18
F-A	3	F1.10	B	3-PSS-22/26-PR-3	PED, I-BEAM, 3-BOLT	A-18
F-A		F1.10	C	4-PSS-1/02A-PR	SPRING CAN	A-15
F-A	2	F1.10	C	4-PSS-1/04-PR-1	SPRING CAN	A-15
F-A		F1.10	A	6-SI-12/07-PR-2	ROD & CLEVIS	A-26
F-A	3	F1 10	C	6-SI-14/09-PR-2	SPRING CAN, 3-BOLT, ROD	A-27
F-A		F1 10	A	6-SI-14/11-PR-1	STRUT, 3-BOLT	A-27
F-A		F1 10	B	6-SI-22/06-PR-2	SADDLE, U-BOLT	A-28
F-A		F1 10	B	6-SI-22/06-PR-4	SADDLE, U-BOLT	A-28
F-A	1	F1 10	A	6-SI-24/07-PR-2	ROD, 3-BOLT, TURNBUCKLE	A-29
F-A	1	F1.40	B	PRZ-FA-1	SUPPORT BOLTING	A-03
F-A		F1.40	C	RCP-RC3A-FC-1	PUMP SUPPORT	A-09A

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F-A		F1 40	C	RCP-RC3A-FC-2	PUMP SUPPORT	A-09A
F-A		F1 40	C	RCP-RC3A-FC-3	PUMP SUPPORT	A-09A
F-A		F1 40	C	RCP-RC3B-FC-1	PUMP SUPPORT	A-09A
F-A		F1.40	C	RCP-RC3B-FC-2	PUMP SUPPORT	A-09A
F-A		F1 40	C	RCP-RC3B-FC-3	PUMP SUPPORT	A-09A
F-A	2	F1 40	C	RCP-RC3C-FC-1	PUMP SUPPORT	A-09A
F-A	2	F1.40	C	RCP-RC3C-FC-2	PUMP SUPPORT	A-09A
F-A	2	F1.40	C	RCP-RC3C-FC-3	PUMP SUPPORT	A-09A
F-A		F1 40	C	RCP-RC3D-FC-1	PUMP SUPPORT	A-09A
F-A		F1 40	C	RCP-RC3D-FC-2	PUMP SUPPORT	A-09A
F-A		F1 40	C	RCP-RC3D-FC-3	PUMP SUPPORT	A-09A
F-A		F1 40	B	SG-1-FB-1	VERTICAL LINEAR SUPPORT	A-05A
F-A		F1 40	B	SG-1-FB-2	VERTICAL LINEAR SUPPORT	A-05A
F-A		F1 40	B	SG-1-FB-3	VERTICAL LINEAR SUPPORT	A-05A
F-A		F1 40	B	SG-1-FB-4	VERTICAL LINEAR SUPPORT	A-05A
F-A	2	F1.40	B	SG-2-FB-1	VERTICAL LINEAR SUPPORT	A-05A
F-A	2	F1.40	B	SG-2-FB-2	VERTICAL LINEAR SUPPORT	A-05A
F-A	2	F1.40	B	SG-2-FB-3	VERTICAL LINEAR SUPPORT	A-05A
F-A	2	F1.40	B	SG-2-FB-4	VERTICAL LINEAR SUPPORT	A-05A
NA	3	NA		CEDM #7	CEDM	A-02A
NA	3	NA		CEDM #11	CEDM	A-02A

* There are 3 types/sizes of valves under Item B12.50. The required internal inspection of one of each will be scheduled when the valve is opened for maintenance or the third period.

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-A		C1.10		SG-1-3	CONE TO UPPER SHELL	B-01
C-A		C1 10		SG-1-4	LOWER SHELL TO CONE	B-01
C-A		C1.10		SG-1-4B	EXT. RING TO LOWER SHELL	B-01
C-A	2	C1.10		SG-2-3	CONE TO UPPER SHEET	B-02
C-A	2	C1 10		SG-2-4	LOWER SHELL TO CONE	B-02
C-A	2	C1.10		SG-2-4B	EXT- RING TO LOWER SHELL	B-02
C-A		C1.20		RHE-C-01	HEAD TO SHELL	B-43
C-A	1	C1 20		RHE-C-16	HEAD TO SHELL	B-43
C-A	3	C1.20		SDHE-AC-4A-C-1	HEAD TO SHELL	B-44
C-A		C1.20		SDHE-AC-4B-C-1	HEAD TO SHELL	B-44
C-A		C1 20		SG-1-5	HEAD TO UPPER SHELL	B-01
C-A		C1.20		SG-1-5A	DOME WELD	B-01
C-A	3	C1 20		SG-2-5	HEAD TO UPPER SHELL	B-02
C-A		C1.20		SG-2-5A	DOME WELD	B-02
C-A		C1.30		RHE-C-04	TUBE SHEET TO SHELL	B-43
C-A	1	C1 30		RHE-C-13	TUBE SHEET TO SHELL	B-43
C-A	3	C1.30		SDHE-AC-4A-C-2	TUBE SHEET TO SHELL	B-44
C-A		C1.30		SDHE-AC-4B-C-2	TUBE SHEET TO SHELL	B-44
C-A		C1.30		SG-1-6	TUBE SHEET TO EXT. RING	B-01
C-A	3	C1.30		SG-2-6	TUBE SHEET TO EXT. RING	B-02
C-B	1	C2 21		RHE-N-14	NOZZLE TO SHELL	B-43
C-B	1	C2.21		RHE-N-15	SHELL TO NOZZLE	B-43
C-B		C2.21		RHE-N-2	NOZZLE TO SHELL	B-43
C-B		C2.21		RHE-N-3	SHELL TO NOZZLE	B-43
C-B	2	C2.21		SDHE-AC-4A-N-3	SHELL TO NOZZLE	B-44
C-B	2	C2.21		SDHE-AC-4A-N-4	NOZZLE TO SHELL	B-44
C-B		C2 21		SDHE-AC-4B-N-3	SHELL TO NOZZLE	B-44
C-B		C2 21		SDHE-AC-4B-N-4	NOZZLE TO SHELL	B-44
C-B		C2 21		SG-1-7	NOZZLE TO SHELL (MS)	B-01
C-B		C2 21		SG-1-8	NOZZLE TO SHELL (FW)	B-01
C-B	3	C2 21		SG-2-7	NOZZLE TO SHELL (MS)	B-02
C-B	3	C2 21		SG-2-8	NOZZLE TO SHELL (FW)	B-02
C-B		C2 22		SG-1-7-IR	INNER RADIUS (MS)	B-01
C-B		C2 22		SG-1-8-IR	INNER RADIUS (EN)	B-01
C-B	3	C2 22		SG-2-7-IR	INNER RADIUS (MS)	B-02
C-B	3	C2 22		SG-2-8-IR	INNER RADIUS (FW)	B-02
C-C		C3 10		RHE-1-PL-1	HEAT EXCH INTEGRAL ATTACH.	B-43
C-C		C3 10		RHE-1-PL-2	HEAT EXCH INTEGRAL ATTACH.	B-43
C-C	1	C3.10		RHE-1-PL-3	HEAT EXCH INTEGRAL ATTACH	B-43
C-C		C3.10		RHE-1-PL-4	HEAT EXCH INTEGRAL ATTACH	B-43
C-C		C3.20		12-LPH-2001/19-PL-1	INTEGRAL ATTACHMENT	B-16
C-C	2	C3.20		12-LPH-2001/19-PL-2	INTEGRAL ATTACHMENT	B-16
C-C		C3.20		12-LPH-2001/19-PL-3	INTEGRAL ATTACHMENT	B-16
C-C	1	C3.20		12-LPH-2001/19-PL-4	INTEGRAL ATTACHMENT	B-16
C-C		C3 20		16-FW-2001/02-PL-1	INTEGRAL ATTACHMENT	B-07
C-C		C3 20		16-FW-2001/02-PL-2	INTEGRAL ATTACHMENT	B-07
C-C		C3 20		16-FW-2001/02-PL-3	INTEGRAL ATTACHMENT	B-07
C-C		C3 20		16-FW-2001/02-PL-4	INTEGRAL ATTACHMENT	B-07
C-C		C3 20		16-FW-2002/04-PL-1	INTEGRAL ATTACHMENT	B-08

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C-C		C3 20		16-FW-2002/04-PL-2	INTEGRAL ATTACHMENT	B-08
C-C		C3 20		16-FW-2002/04-PL-3	INTEGRAL ATTACMIENT	B-08
C-C		C3 20		16-FW-2002/04-PL-4	INTEGRAL ATTACHMENT	B-08
C-C		C3 20		28-MS-2001/11-PL-1	INTEGRAL ATTACHMENT	B-03
C-C		C3 20		28-MS-2001/11-PL-2	INTEGRAL ATTACHMENT	B-03
C-C		C3.20		28-MS-2001/11-PL-3	INTEGRAL ATTACHMENT	B-03
C-C		C3 20		28-MS-2001/11-PL-4	INTEGRAL ATTACHMENT	B-03
C-C		C3 20		28-MS-2002/11-PL-1	INTEGRAL ATTACHMENT	B-05
C-C		C3 20		28-MS-2002/11-PL-2	INTEGRAL ATTACHMENT	B-05
C-C		C3 20		28-MS-2002/11-PL-3	INTEGRAL ATTACHMENT	B-05
C-C		C3 20		28-MS-2002/11-PL-4	INTEGRAL ATTACHMENT	B-05
C-C	3	C3 20		8-LPSI-2002/10-PR-3A	INTEGRAL ATTACHMENT	B-30
C-F-1	3	C5.11		12-CSS-2001/01	CAP TO PIPE	B-19
C-F-1		C5.11		12-CSS-2001/02	PIPE TO PIPE	B-19
C-F-1		C5.11		12-CSS-2001/03	PIPE TO 45 ELBOW	B-19
C-F-1		C5.11		12-CSS-2001/04	45 ELBOW TO ELBOW	B-19
C-F-1		C5.11		12-CSS-2001/05	ELBOW TO PIPE	B-19
C-F-1		C5.11		12-CSS-2001/06	PIPE TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/07	PIPE TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/08	PIPE TO ELBOW	B-19
C-F-1		C5 11		12-CSS-2001/09	ELBOW TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/10	PIPE TO ELBOW	B-19
C-F-1		C5.11		12-CSS-2001/11	ELBOW TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/12	PIPE TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/13	PIPE TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/13A	PIPE TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/14	PIPE TO PIPE	B-19
C-F-1	1	C5 11		12-CSS-2001/15	PIPE TO ELBOW	B-19
C-F-1		C5 11		12-CSS-2001/16	ELBOW TO ELBOW	B-19
C-F-1	1	C5 11		12-CSS-2001/17	ELBOW TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/18	PIPE TO ELBOW	B-19
C-F-1		C5 11		12-CSS-2001/19	ELBOW TO PIPE	B-19
C-F-1		C5.11		12-CSS-2001/20	PIPE TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/21	PIPE TO ELBOW	B-19
C-F-1		C5 11		12-CSS-2001/22	ELBOW TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/23	PIPE TO TEE	B-19
C-F-1		C5.11		12-CSS-2001/24	TEE TO PIPE	B-19
C-F-1		C5.11		12-CSS-2001/25	PIPE TO ELBOW	B-19
C-F-1		C5.11		12-CSS-2001/26	ELBOW TO PIPE	B-19
C-F-1		C5.11		12-CSS-2001/27	PIPE TO VALVE	B-19
C-F-1		C5.11		12-CSS-2001/28	VALVE TO ELBOW	B-19
C-F-1		C5.11		12-CSS-2001/29	ELBOW TO PIPE	B-19
C-F-1		C5 11		12-CSS-2001/30	PIPE TO ELBOW	B-19
C-F-1		C5 11		12-CSS-2001/31	ELBOW TO ELBOW	B-19
C-F-1		C5 11		12-CSS-2001/32	ELBOW TO NOZZLE	B-19
C-F-1		C5 11		12-CSS-2002/01	TEE TO ELBOW	B-20
C-F-1		C5 11		12-CSS-2002/02	ELBOW TO VALVE	B-20
C-F-1		C5 11		12-CSS-2002/03	VALVE TO PIPE	B-20
C-F-1		C5 11		12-CSS-2002/04	PIPE TO VALVE	B-20

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C-F-1		C5 11		12-CSS-2002/05	VALVE TO ELBOW	B-20
C-F-1		C5 11		12-CSS-2002/06	ELBOW TO PIPE	B-20
C-F-1		C5 11		12-CSS-2002/07	PIPE TO ELBOW	B-20
C-F-1		C5.11		12-CSS-2002/08	ELBOW TO PIPE	B-20
C-F-1		C5 11		12-CSS-2002/09	PIPE TO TEE	B-20
C-F-1		C5 11		12-CSS-2004/01	ELBOW TO PIPE	B-38
C-F-1		C5 11		12-CSS-2004/01B	FLANGE TO ELBOW	B-38
C-F-1	1	C5 11		12-CSS-2004/02	PIPE TO ELBOW	B-38
C-F-1	1	C5 11		12-CSS-2004/03	ELBOW TO PIPE	B-38
C-F-1		C5 11		12-CSS-2004/04	PIPE TO PIPE	B-38
C-F-1		C5 11		12-CSS-2004/05	PIPE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2004/06	ELBOW TO PIPE	B-38
C-F-1	1	C5 11		12-CSS-2004/07	PIPE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2004/08	ELBOW TO PIPE	B-38
C-F-1		C5 11		12-CSS-2004/09	PIPE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2004/10	ELBOW TO PIPE	B-38
C-F-1		C5.11		12-CSS-2004/11	PIPE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2004/12	ELBOW TO PIPE	B-38
C-F-1		C5 11		12-CSS-2004/13	PIPE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2004/14	ELBOW TO PIPE	B-38
C-F-1		C5 11		12-CSS-2004/15	PIPE TO PIPE	B-38
C-F-1		C5 11		12-CSS-2004/16	PIPE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2004/17	ELBOW TO PIPE	B-38
C-F-1		C5 11		12-CSS-2004/18	PIPE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2004/19	ELBOW TO FLANGE	B-38
C-F-1		C5 11		12-CSS-2004/20	FLANGE TO PIPE	B-38
C-F-1		C5.11		12-CSS-2004/22	PIPE TO PIPE	B-38
C-F-1		C5.11		12-CSS-2004/23	PIPE TO VALVE	B-38
C-F-1		C5.11		12-CSS-2005/01	ELBOW TO PIPE	B-38
C-F-1		C5 11		12-CSS-2005/01A	FLANGE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2005/02	PIPE TO ELBOW	B-38
C-F-1	3	C5 11		12-CSS-2005/03	ELBOW TO PIPE	B-38
C-F-1	3	C5 11		12-CSS-2005/04	PIPE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2005/05	ELBOW TO PIPE	B-38
C-F-1		C5 11		12-CSS-2005/06	PIPE TO PIPE	B-38
C-F-1		C5 11		12-CSS-2005/07	PIPE TO ELBOW	B-38
C-F-1		C5 11		12-CSS-2005/08	ELBOW TO FLANGE	B-38
C-F-1		C5 11		12-CSS-2005/09	FLANGE TO PIPE	B-38
C-F-1		C5 11		12-CSS-2005/10	PIPE TO PIPE	B-38
C-F-1		C5 11		12-CSS-2005/11	PIPE TO VALVE	B-38
C-F-1		C5 11		12-CSS-2011/07	VALVE TO PIPE	B-39
C-F-1	3	C5.11		12-CSS-2011/08	PIPE TO REDUCER	B-39
C-F-1	3	C5.11		12-CSS-2011/09	REDUCER TO FLANGE (10")	B-39
C-F-1		C5.11		12-CSS-2012/05	VALVE TO PIPE	B-39
C-F-1	3	C5 11		12-CSS-2012/06	PIPE TO ELBOW	B-39
C-F-1	3	C5 11		12-CSS-2012/07	ELBOW TO PIPE	B-39
C-F-1		C5.11		12-CSS-2012/08	PIPE TO REDUCER	B-39
C-F-1		C5.11		12-CSS-2012/09	REDUCER TO FLANGE (10")	B-39
C-F-1		C5.11		12-CSS-2013/06	VALVE TO ELBOW	B-39

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C-F-1		C5 11		12-CSS-2013/07	ELBOW TO ELBOW	B-39
C-F-1		C5 11		12-CSS-2013/08	ELBOW TO PIPE	B-39
C-F-1		C5 11		12-CSS-2013/09	PIPE TO REDUCER	B-39
C-F-1		C5 11		12-CSS-2013/10	REDUCER TO FLANGE (10")	B-39
C-F-1		C5 11		12-LPH-2001/03	REDUCER TO PIPE	B-16
C-F-1		C5 11		12-LPH-2001/04	PIPE TO ELBOW	B-16
C-F-1		C5 11		12-LPH-2001/05	ELBOW TO TEE	B-16
C-F-1		C5 11		12-LPH-2001/09A	FLANGE TO TEE	B-16
C-F-1		C5 11		12-LPH-2001/10	TEE TO PIPE	B-16
C-F-1	1	C5 11		12-LPH-2001/11	PIPE TO TEE	B-16
C-F-1		C5 11		12-LPH-2001/13	PIPE TO VALVE (8")	B-16
C-F-1	3	C5 11		12-LPH-2001/14	TEE TO PIPE	B-16
C-F-1		C5 11		12-LPH-2001/15	PIPE TO ELBOW	B-16
C-F-1	3	C5 11		12-LPH-2001/16	ELBOW TO PIPE	B-16
C-F-1		C5 11		12-LPH-2001/17	PIPE TO FLANGE	B-16
C-F-1		C5 11		12-LPH-2001/18	FLANGE TO PIPE	B-16
C-F-1		C5 11		12-LPH-2001/19	PIPE TO PIPE	B-16
C-F-1		C5 11		12-LPH-2001/20	PIPE TO PIPE	B-16
C-F-1		C5 11		12-LPH-2001/21	PIPE TO ELBOW	B-16
C-F-1		C5 11		12-LPH-2001/22	ELBOW TO PIPE	B-16
C-F-1		C5 11		12-LPH-2001/23	PIPE TO TEE	B-16
C-F-1		C5 11		12-LPH-2001/24	TEE TO REDUCER	B-16
C-F-1	2	C5 11		12-LPH-2001/25	TEE TO PIPE BEND	B-16
C-F-1		C5 11		12-LPH-2001/26	PIPE BEND TO PIPE	B-16
C-F-1		C5 11		12-LPH-2001/27	PIPE TO TEE	B-16
C-F-1		C5 11		12-LPH-2001/29	TEE TO PIPE	B-16
C-F-1		C5 11		12-LPH-2001/29A	PIPE TO 45 ELBOW	B-16
C-F-1	2	C5 11		12-LPH-2001/30	45 ELBOW TO REDUCER	B-16
C-F-1		C5 11		12-LPSI-2002/01	TEE TO PIPE	B-17
C-F-1	1	C5 11		12-LPSI-2002/02	PIPE TO ELBOW	B-17
C-F-1	3	C5 11		12-LPSI-2002/03	ELBOW TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/04	PIPE TO TEE	B-17
C-F-1	1	C5 11		12-LPSI-2002/05	TEE TO REDUCER	B-17
C-F-1		C5 11		12-LPSI-2002/06	TEE TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/06A	ELBOW TO FLANGE	B-17
C-F-1	3	C5 11		12-LPSI-2002/07	PIPE TO ELBOW	B-17
C-F-1		C5 11		12-LPSI-2002/08	ELBOW TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/09	PIPE TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/10	PIPE TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/10A	PIPE TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/11	PIPE TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/12	PIPE TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/13	PIPE TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/14	PIPE TO ELBOW	B-17
C-F-1	2	C5 11		12-LPSI-2002/15	ELBOW TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/16	PIPE TO PIPE	B-17
C-F-1		C5 11		12-LPSI-2002/17	PIPE TO ELBOW	B-17
C-F-1	1	C5 11		12-LPSI-2002/18	ELBOW TO PIPE	B-17
C-F-1	1	C5 11		12-LPSI-2002/19	PIPE TO ELBOW	B-17

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C-F-1		C5 11		12-LPSI-2002/20	ELBOW TO PIPE	B-17
C-F-1		C5.11		12-LPSI-2002/21	PIPE TO PIPE	B-17
C-F-1		C5.11		12-LPSI-2002/22	PIPE TO PIPE	B-17
C-F-1		C5.11		12-LPSI-2002/23A	FLANGE TO ELBOW	B-17
C-F-1		C5.11		12-LPSI-2003/01	REDUCER TO TEE	B-18
C-F-1		C5.11		12-LPSI-2003/02	TEE TO PIPE	B-18
C-F-1		C5.11		12-LPSI-2003/03	PIPE TO ELBOW	B-18
C-F-1		C5.11		12-LPSI-2003/04	ELBOW TO PIPE	B-18
C-F-1		C5.11		12-LPSI-2003/05	PIPE TO ELBOW	B-18
C-F-1		C5.11		12-LPSI-2003/06	ELBOW TO PIPE	B-18
C-F-1		C5.11		12-LPSI-2003/07	PIPE TO PIPE	B-18
C-F-1	2	C5.11		12-LPSI-2003/08	PIPE TO ELBOW	B-18
C-F-1	2	C5.11		12-LPSI-2003/09	ELBOW TO PIPE	B-18
C-F-1		C5.11		12-LPSI-2003/10	PIPE TO PIPE	B-18
C-F-1		C5.11		12-LPSI-2003/11	PIPE TO ELBOW	B-18
C-F-1		C5.11		12-LPSI-2003/12	ELBOW TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/13	PIPE TO ELBOW	B-18
C-F-1		C5 11		12-LPSI-2003/14	ELBOW TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/15	PIPE TO PIPE	B-18
C-F-1		C5.11		12-LPSI-2003/16	PIPE TP PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/17	PIPE TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/18	PIPE TP PIPE	B-18
C-F-1	3	C5 11		12-LPSI-2003/19	PIPE TO ELBOW	B-18
C-F-1	3	C5 11		12-LPSI-2003/20	ELBOW TO PIPE	B-18
C-F-1	3	C5 11		12-LPSI-2003/20A	PIPE TO ELBOW	B-18
C-F-1	1	C5 11		12-LPSI-2003/21	ELBOW TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/21A	PIPE TO FLANGE	B-18
C-F-1		C5 11		12-LPSI-2003/21B	FLANGE TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/21C	PIPE TO FLANGE	B-18
C-F-1		C5 11		12-LPSI-2003/21D	FLANGE TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/22	PIPE TO ELBOW	B-18
C-F-1		C5 11		12-LPSI-2003/23	ELBOW TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/24	PIPE TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/25	PIPE TO ELBOW	B-18
C-F-1		C5 11		12-LPSI-2003/26	ELBOW TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/27	PIPE TO FLANGE	B-18
C-F-1		C5 11		12-LPSI-2003/28A	FLANGE TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/28B	PIPE TO FLANGE	B-18
C-F-1		C5 11		12-LPSI-2003/28C	FLANGE TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/29	PIPE TO ELBOW	B-18
C-F-1		C5 11		12-LPSI-2003/30	ELBOW TO TEE	B-18
C-F-1		C5 11		12-LPSI-2003/33	TEE TO VALVE	B-18
C-F-1		C5 11		12-LPSI-2003/34	VALVE TO ELBOW	B-18
C-F-1		C5 11		12-LPSI-2003/35	ELBOW TO PIPE	B-18
C-F-1		C5 11		12-LPSI-2003/36	PIPE TO ELBOW	B-18
C-F-1	1	C5 11		12-LPSI-2003/37	ELBOW TO NOZZLE	B-18
C-F-1	1	C5 11		12-SDC-2001/01	NOZZLE TO ELBOW	B-21
C-F-1		C5 11		12-SDC-2001/02	ELBOW TO PIPE	B-21
C-F-1		C5 11		12-SDC-2001/03	PIPE TO VALVE	B-21

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C-F-1		C5.11		12-SDC-2001/04	VALVE TO ELBOW	B-21
C-F-1		C5 11		12-SDC-2001/05	ELBOW TO PIPE	B-21
C-F-1		C5 11		12-SDC-2001/06	PIPE TO ELBOW	B-21
C-F-1		C5 11		12-SDC-2001/07	ELBOW TO TEE	B-21
C-F-1		C5 11		12-SDC-2001/08	TEE TO PIPE	B-21
C-F-1		C5 11		12-SDC-2001/09	PIPE TO ELBOW	B-21
C-F-1		C5 11		12-SDC-2001/10	ELBOW TO VALVE	B-21
C-F-1		C5.11		12-SDC-2001/11	TEE TO PIPE	B-21
C-F-1		C5.11		12-SDC-2001/12	PIPE TO ELBOW	B-21
C-F-1		C5.11		12-SDC-2001/13	ELBOW TO PIPE	B-21
C-F-1		C5 11		12-SDC-2001/14	PIPE TO ELBOW	B-21
C-F-1		C5.11		12-SDC-2001/15	ELBOW TO PIPE	B-21
C-F-1		C5.11		12-SDC-2001/16	PIPE TO TEE	B-21
C-F-1		C5.11		12-SDC-2001/17	TEE TO PIPE	B-21
C-F-1		C5 11		12-SDC-2001/18	PIPE TO FLANGE	B-21
C-F-1		C5 11		12-SDC-2001/19	FLANGE TO PIPE	B-21
C-F-1		C5 11		12-SDC-2001/20	PIPE TO ELBOW	B-21
C-F-1		C5.11		12-SDC-2001/21	ELBOW TO PIPE	B-21
C-F-1		C5.11		12-SDC-2001/22	PIPE TO ELBOW	B-21
C-F-1		C5.11		12-SDC-2001/23	ELBOW TO PIPE	B-21
C-F-1		C5 11		12-SDC-2001/24	PIPE TO PIPE	B-21
C-F-1		C5 11		12-SDC-2001/25	PIPE TO PIPE	B-21
C-F-1		C5 11		12-SDC-2001/26	PIPE TO REDUCER	B-21
C-F-1		C5.11		12-SDC-2001/27	REDUCER TO VALVE (8")	B-21
C-F-1		C5 11		12-SDC-2002/01	NOZZLE TO ELBOW	B-22
C-F-1		C5.11		12-SDC-2002/02	ELBOW TO PIPE	B-22
C-F-1		C5 11		12-SDC-2002/03	PIPE TO ELBOW	B-22
C-F-1		C5.11		12-SDC-2002/04	ELBOW TO PIPE	B-22
C-F-1		C5.11		12-SDC-2002/05	PIPE TO VALVE	B-22
C-F-1		C5.11		12-SDC-2002/06	VALVE TO PIPE	B-22
C-F-1		C5.11		12-SDC-2002/07	PIPE TO TEE	B-22
C-F-1		C5 11		12-SDC-2002/08	TEE TO PIPE	B-22
C-F-1		C5 11		12-SDC-2002/09	PIPE TO ELBOW	B-22
C-F-1		C5 11		12-SDC-2002/10	ELBOW TO VALVE	B-22
C-F-1		C5 11		12-SDC-2002/11	TEE TO PIPE	B-22
C-F-1		C5.11		12-SDC-2002/12	PIPE TO ELBOW	B-22
C-F-1		C5 11		12-SDC-2002/13	ELBOW TO ELBOW	B-22
C-F-1		C5 11		12-SDC-2002/14	ELBOW TO PIPE	B-22
C-F-1		C5 11		12-SDC-2002/15	PIPE TO ELBOW	B-22
C-F-1		C5.11		12-SDC-2002/16	ELBOW TO PIPE	B-22
C-F-1	3	C5 11		12-SDC-2002/17	PIPE TO FLANGE	B-22
C-F-1		C5 11		12-SDC-2002/18	FLANGE TO PIPE	B-22
C-F-1		C5 11		12-SDC-2002/19	PIPE TO ELBOW	B-22
C-F-1	3	C5 11		12-SDC-2002/20	ELBOW TO PIPE	B-22
C-F-1		C5 11		12-SDC-2002/21	PIPE TO PIPE	B-22
C-F-1		C5 11		12-SDC-2002/22	PIPE TO ELBOW	B-22
C-F-1		C5 11		12-SDC-2002/23	ELBOW TO PIPE	B-22
C-F-1		C5 11		12-SDC-2002/24	PIPE TO ELBOW	B-22
C-F-1		C5.11		12-SDC-2002/25	ELBOW TO PIPE	B-22

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C-F-1		C5 11		12-SDC-2002/26	PIPE TO PIPE	B-22
C-F-1		C5.11		12-SDC-2002/27	PIPE TO REDUCER	B-22
C-F-1		C5 11		12-SDC-2002/28	REDUCER TO FLANGE (8")	B-22
C-F-1		C5.11		12-SDC-2003/01	VALVE TO PIPE	B-22A
C-F-1		C5.11		12-SDC-2003/02	PIPE TO TEE	B-22A
C-F-1		C5.11		12-SDC-2003/03	VALVE TO PIPE	B-22A
C-F-1		C5 11		12-SDC-2003/04	PIPE TO TEE	B-22A
C-F-1		C5 11		12-SDC-2003/05	TEE TO PIPE	B-22A
C-F-1		C5 11		12-SDC-2003/06	PIPE TO ELBOW	B-22A
C-F-1		C5 11		12-SDC-2003/07	ELBOW TO PIPE	B-22A
C-F-1		C5 11		12-SDC-2003/08	PIPE TO 45 ELBOW	B-22A
C-F-1		C5 11		12-SDC-2003/09	45 ELBOW TO PIPE	B-22A
C-F-1		C5.11		12-SDC-2003/09A	PIPE TO PIPE	B-22A
C-F-1		C5.11		12-SDC-2003/09B	PIPE TO PIPE	B-22A
C-F-1		C5.11		12-SDC-2003/10	PIPE TO ELBOW	B-22A
C-F-1		C5.11		12-SDC-2003/11	ELBOW TO PIPE	B-22A
C-F-1		C5.11		12-SDC-2003/12	PIPE TO ELBOW	B-22A
C-F-1	3	C5.11		12-SDC-2003/13	ELBOW TO ELBOW	B-22A
C-F-1		C5.11		12-SDC-2003/14	ELBOW TO PIPE	B-22A
C-F-1		C5.11		12-SDC-2003/14A	PIPE TO PIPE	B-22A
C-F-1		C5.11		12-SDC-2003/15	PIPE TO PIPE	B-22A
C-F-1		C5.11		12-SDC-2003/16	PIPE TO PIPE	B-22A
C-F-1	1	C5 11		12-SDC-2003/17	ELBOW TO PIPE	B-22A
C-F-1		C5 11		12-SDC-2003/18	PIPE TO ELBOW	B-22A
C-F-1		C5 11		12-SDC-2003/19	ELBOW TO VALVE (8")	B-22A
C-F-1		C5 11		12-SDC-2020/01	VALVE TO REDUCER	B-11
C-F-1		C5 11		12-SDC-2020/02	REDUCER TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/03	PIPE TO TEE	B-11
C-F-1		C5.11		12-SDC-2020/04	TEE TO FLANGE (8")	B-11
C-F-1		C5 11		12-SDC-2020/05	TEE TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/06	PIPE TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/07	PIPE TO ELBOW	B-11
C-F-1		C5 11		12-SDC-2020/08	ELBOW TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/09	PIPE TO ELBOW	B-11
C-F-1		C5 11		12-SDC-2020/10	ELBOW TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/11	PIPE TO ELBOW	B-11
C-F-1	2	C5 11		12-SDC-2020/12	ELBOW TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/13	PIPE TO ELBOW	B-11
C-F-1		C5 11		12-SDC-2020/14	ELBOW TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/15	PIPE TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/16	PIPE TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/17	PIPE TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/18	PIPE TO PIPE	B-11
C-F-1		C5 11		12-SDC-2020/19	PIPE TO PIPE	B-11
C-F-1		C5 11		20-SI-2001/01	REDUCER TO PIPE	B-36
C-F-1		C5 11		20-SI-2001/01A	PIPE TO PIPE	B-36
C-F-1		C5 11		20-SI-2001/01B	PIPE TO PIPE	B-36
C-F-1		C5 11		20-SI-2001/01D	PIPE TO TEE	B-36
C-F-1		C5 11		20-SI-2001/01E	TEE TO PIPE	B-36

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C-F-1		C5 11		20-SI-2001/02	PIPE TO TEE	B-36
C-F-1	1	C5.11		20-SI-2001/03	TEE TO PIPE	B-36
C-F-1		C5 11		20-SI-2001/04	PIPE TO ELBOW	B-36
C-F-1		C5 11		20-SI-2001/05	ELBOW TO PIPE	B-36
C-F-1		C5 11		20-SI-2001/07	PIPE TO VALVE	B-36
C-F-1		C5 11		20-SI-2002/01	PIPE TO TEE	B-37
C-F-1		C5.11		20-SI-2002/02	ELBOW TO PIPE	B-37
C-F-1		C5.11		20-SI-2002/03	VALVE TO ELBOW	B-37
C-F-1		C5.11		24-SI-2001/01	FLANGE TO PIPE	B-36
C-F-1		C5.11		24-SI-2001/02	PIPE TO ELBOW	B-36
C-F-1		C5.11		24-SI-2001/03	ELBOW TO PIPE	B-36
C-F-1		C5 11		24-SI-2001/04	PIPE TO ELBOW	B-36
C-F-1		C5.11		24-SI-2001/05	ELBOW TO FLANGE	B-36
C-F-1		C5 11		24-SI-2001/06	FLANGE TO PIPE	B-36
C-F-1		C5 11		24-SI-2001/07	PIPE TO ELBOW	B-36
C-F-1		C5 11		24-SI-2001/08	ELBOW TO PIPE	B-36
C-F-1		C5 11		24-SI-2001/09	PIPE TO PIPE	B-36
C-F-1		C5 11		24-SI-2001/09A	PIPE TO PIPE	B-36
C-F-1		C5 11		24-SI-2001/10	PIPE TO PIPE	B-36
C-F-1		C5.11		24-SI-2001/11	PIPE TO TEE	B-36
C-F-1		C5 11		24-SI-2001/12	TEE TO PIPE	B-36
C-F-1	1	C5 11		24-SI-2001/13	PIPE TO ELBOW	B-36
C-F-1		C5 11		24-SI-2001/14	ELBOW TO PIPE	B-36
C-F-1		C5 11		24-SI-2001/15	PIPE TO TEE	B-36
C-F-1		C5 11		24-SI-2001/16	TEE TO REDUCER	B-36
C-F-1		C5 11		24-SI-2002/01	FLANGE TO PIPE	B-37
C-F-1		C5.11		24-SI-2002/01A	PIPE TO PIPE	B-37
C-F-1		C5.11		24-SI-2002/02	PIPE TO ELBOW	B-37
C-F-1		C5.11		24-SI-2002/03	ELBOW TO VALVE	B-37
C-F-1		C5.11		24-SI-2002/04	VALVE TO PIPE	B-37
C-F-1		C5.11		24-SI-2002/04A	PIPE TO PIPE	B-37
C-F-1		C5.11		24-SI-2002/05	PIPE TO PIPE	B-37
C-F-1		C5.11		24-SI-2002/06	PIPE TO PIPE	B-37
C-F-1		C5 11		24-SI-2002/07	PIPE TO PIPE	B-37
C-F-1		C5 11		24-SI-2002/10	PIPE TO PIPE	B-37
C-F-1		C5 11		24-SI-2002/10A	PIPE TO PIPE	B-37
C-F-1		C5 11		24-SI-2002/11	PIPE TO TEE	B-37
C-F-1		C5 11		24-SI-2002/12	TEE TO PIPE	B-37
C-F-1	2	C5.11		24-SI-2002/13	PIPE TO ELBOW	B-37
C-F-1		C5 11		24-SI-2002/14	ELBOW TO PIPE	B-37
C-F-1		C5 11		24-SI-2002/15	PIPE TO ELBOW	B-37
C-F-1	2	C5 11		24-SI-2002/16	ELBOW TO PIPE	B-37
C-F-1		C5 11		24-SI-2002/17	PIPE TO PIPE	B-37
C-F-1		C5 11		24-SI-2002/18	PIPE TO TEE	B-37
C-F-1		C5 11		24-SI-2002/19	TEE TO PIPE	B-37
C-F-1		C5 11		24-SI-2002/19A	PIPE TO TEE	B-37
C-F-1		C5 11		24-SI-2002/20	TEE TO PIPE	B-37
C-F-1		C5 11		24-SI-2002/21	PIPE TO TEE	B-37
C-F-1	2	C5 11		24-SI-2002/22	TEE TO CAP	B-37

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C-F-1		C5.11		6-SI-2002/01	REDUCER TO ELBOW	B-42
C-F-1		C5 11		6-SI-2002/02	ELBOW TO PIPE	B-42
C-F-1	2	C5 11		6-SI-2002/03	PIPE TO ELBOW	B-42
C-F-1		C5 11		6-SI-2002/04	ELBOW TO PIPE	B-42
C-F-1		C5 11		6-SI-2002/05	PIPE TO ELBOW	B-42
C-F-1	2	C5.11		6-SI-2002/06	ELBOW TO PIPE	B-42
C-F-1		C5.11		6-SI-2002/07	PIPE TO ELBOW	B-42
C-F-1		C5 11		6-SI-2002/08	ELBOW TO PIPE	B-42
C-F-1		C5 11		6-SI-2002/09	PIPE TO ELBOW	B-42
C-F-1		C5 11		6-SI-2002/10	ELBOW TO PIPE	B-42
C-F-1		C5.11		6-SI-2002/11	PIPE TO ELBOW	B-42
C-F-1		C5 11		6-SI-2002/12	ELBOW TO PIPE	B-42
C-F-1		C5 11		6-SI-2002/13	PIPE TO ELBOW	B-42
C-F-1		C5 11		6-SI-2002/14	ELBOW TO PIPE	B-42
C-F-1	3	C5 11		6-SI-2002/15	ELBOW TO PIPE	B-42
C-F-1		C5.11		6-SI-2002/16	PIE TO TEE	B-42
C-F-1		C5.11		6-SI-2002/17	TEE TO PIPE	B-42
C-F-1		C5 11		6-SI-2002/18	PIPE TO REDUCER	B-42
C-F-1		C5.11		6-SI-2002/19	ELBOW TO FLANGE	B-42
C-F-1		C5.11		6-SI-2012/10	REDUCER TO PIPE	B-33
C-F-1		C5.11		6-SI-2012/11	PIPE TO VALVE	B-33
C-F-1	3	C5.11		6-SI-2014/20	REDUCER TO PIPE	B-34
C-F-1		C5.11		6-SI-2014/21	PIPE TO PIPE	B-34
C-F-1		C5.11		6-SI-2014/22	PIPE TO VALVE	B-34
C-F-1		C5.11		6-SI-2022/10	REDUCER TO PIPE	B-31
C-F-1		C5.11		6-SI-2022/11	PIPE TO VALVE	B-31
C-F-1		C5.11		6-SI-2024/10	REDUCER TO PIPE	B-32
C-F-1		C5.11		6-SI-2024/11	PIPE TO PIPE	B-32
C-F-1		C5.11		6-SI-2024/12	PIPE TO VALVE	B-32
C-F-1		C5 21		2 5-CH-10/01	EXPANDER TO ELBOW	B-64
C-F-1		C5 21		2 5-CH-10/02	ELBOW TO NOZZLE	B-64
C-F-1		C5 21		2 5-CH-16/01	EXPANDER TO PIPE	B-66
C-F-1		C5 21		2 5-CH-16/02	PIPE TO FLANGE	B-66
C-F-1		C5 21		2 5-CH-16/03	FLANGE TO PIPE	B-66
C-F-1	3	C5 21		2 5-CH-16/04	PIPE TO REDUCER	B-66
C-F-1		C5 21		4-CH-10/01	PIPE TO PIPE	B-73
C-F-1		C5 21		4-CH-10/01A	PIPE TO ELBOW	B-73
C-F-1		C5 21		4-CH-10/02	ELBOW TO PIPE	B-73
C-F-1		C5 21		4-CH-10/03	PIPE TO ELBOW	B-73
C-F-1		C5 21		4-CH-10/04	ELBOW TO PIPE	B-73
C-F-1		C5 21		4-CH-10/04A	PIPE TO PIPE	B-73
C-F-1		C5 21		4-CH-10/05	PIPE TO PIPE	B-73
C-F-1		C5 21		4-CH-10/05A	PIPE TO PIPE	B-73
C-F-1		C5 21		4-CH-10/06	PIPE TO ELBOW	B-73
C-F-1		C5 21		4-CH-10/07	ELBOW TO PIPE	B-73
C-F-1		C5 21		4-CH-10/08	PIPE TO ELBOW	B-73
C-F-1		C5 21		4-CH-10/09	ELBOW TO PIPE	B-73
C-F-1		C5 21		4-CH-10/10	PIPE TO ELBOW	B-73
C-F-1		C5 21		4-CH-10/11	ELBOW TO PIPE	B-73

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C-F-1	3	C5.21		4-CH-10/12	PIPE TO ELBOW	B-73
C-F-1		C5.21		4-CH-10/13	ELBOW TO PIPE	B-73
C-F-1		C5.21		4-CH-10/14	PIPE TO ELBOW	B-73
C-F-1		C5.21		4-CH-10/15	ELBOW TO VALVE	B-73
C-F-1		C5.21		4-CH-10/16	VALVE TO ELBOW	B-73
C-F-1		C5.21		4-CH-10/17	PIPE TO VALVE	B-73
C-F-1		C5.21		4-CH-10/18	VALVE TO PIPE	B-73
C-F-1	3	C5.21		4-CH-10/19	PIPE TO VALVE	B-73
C-F-1		C5.21		4-CH-10/20	VALVE TO PIPE	B-73
C-F-1	3	C5.21		4-CH-10/21	PIPE TO ELBOW	B-73
C-F-1	3	C5.21		4-CH-10/22	ELBOW TO PIPE	B-73
C-F-1		C5.21		4-CH-10/23	PIPE TO ELBOW	B-73
C-F-1		C5.21		4-CH-10/24	ELBOW TO PIPE	B-73
C-F-1		C5.21		4-CH-10/25	PIPE TO ELBOW	B-73
C-F-1	3	C5.21		4-CH-10/26	ELBOW TO ELBOW	B-73
C-F-1	3	C5 21		4-CH-10/27	ELBOW TO PIPE	B-73
C-F-1		C5.21		4-CH-10/28	PIPE TO PIPE	B-73
C-F-1		C5.21		4-CH-10/29	PIPE TO PIPE	B-73
C-F-1		C5.21		4-CH-11/01	PIPE TO REDUCER	B-74
C-F-1		C5.21		4-CH-11/02	REDUCER TO ELBOW	B-74
C-F-1		C5.21		4-CH-11/03	ELBOW TO PIPE	B-74
C-F-1		C5.21		4-CH-11/04	PIPE TO VALVE	B-74
C-F-1		C5.21		4-CH-11/05	VALVE TO PIPE	B-74
C-F-1		C5.21		4-CH-11/06	PIPE TO VALVE	B-74
C-F-1		C5.21		4-CH-11/07	VALVE TO ELBOW	B-74
C-F-1		C5.21		4-CH-11/08	ELBOW TO PIPE	B-74
C-F-1		C5.21		4-CH-11/09	PIPE TO TEE	B-74
C-F-1		C5.21		4-CH-11/10	TEE TO VALVE	B-74
C-F-1		C5.21		4-CH-11/11	VALVE TO PIPE	B-74
C-F-1		C5.21		4-CH-11/12	TEE TO PIPE	B-74
C-F-1		C5.21		4-CH-11/13	PIPE TO ELBOW	B-74
C-F-1		C5.21		4-CH-11/14	ELBOW TO PIPE	B-74
C-F-1		C5.21		4-CH-11/15	PIPE TO ELBOW	B-74
C-F-1		C5.21		4-CH-11/16	ELBOW TO PIPE	B-74
C-F-1		C5.21		4-CH-11/16A	PIPE TO PIPE	B-74
C-F-1		C5.21		4-CH-11/17	PIPE TO REDUCER	B-74
C-F-1	2	C5.21		4-CH-11/18	REDUCER TO ELBOW	B-74
C-F-1		C5.21		4-CH-11/19	ELBOW TO PIPE	B-74
C-F-1		C5.21		4-CH-11/20	PIPE TO VALVE	B-74
C-F-1	2	C5 21		4-CH-11/21	VALVE TO PIPE	B-74
C-F-1		C5 21		4-CH-11/22	PIPE TO VALVE	B-74
C-F-1		C5 21		4-CH-11/23	VALVE TO ELBOW	B-74
C-F-1		C5 21		4-CH-11/24	ELBOW TO PIPE	B-74
C-F-1		C5 21		4-CH-11/25	PIPE TO TEE	B-74
C-F-1		C5 21		4-CH-11/26	TEE TO PIPE	B-74
C-F-1		C5 21		4-CH-11/27	TEE TO VALVE	B-74
C-F-1		C5 21		4-CH-11/28	VALVE TO PIPE	B-74
C-F-1		C5 21		4-CH-11/29	PIPE TO ELBOW	B-74
C-F-1		C5 21		4-CH-11/30	ELBOW TO PIPE	B-74

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C-F-1		C5 21		4-CH-11/31	PIPE TO ELBOW	B-74
C-F-1		C5 21		4-CH-11/32	ELBOW TO PIPE	B-74
C-F-1		C5 21		4-CH-11/33	PIPE TO ELBOW	B-74
C-F-1		C5 21		4-CH-11/34	ELBOW TO PIPE	B-74
C-F-1		C5 21		4-CH-11/35	PIPE TO PIPE	B-74
C-F-1		C5 21		4-CH-12/01	PIPE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/01A	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/02	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/03	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/04	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/05	PIPE TO TEE	B-75
C-F-1		C5 21		4-CH-12/06	PIPE TO EXPANDER	B-75
C-F-1		C5 21		4-CH-12/07	EXPANDER TO ELBOW	B-75
C-F-1	3	C5 21		4-CH-12/08	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/09	PIPE TO VALVE	B-75
C-F-1		C5 21		4-CH-12/10	VALVE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/11	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/12	ELBOW TO VALVE	B-75
C-F-1		C5 21		4-CH-12/13	VALVE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/14	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/15	ELBOW TO TEE	B-75
C-F-1		C5 21		4-CH-12/16	TEE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/16A	PIPE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/17	PIPE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/17A	PIPE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/18	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/19	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/20	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/21	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/22	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/23	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/24	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/25	ELBOW TO VALVE	B-75
C-F-1		C5.21		4-CH-12/26	VALVE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/27	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/28	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/29	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/30	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/31	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/32	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/33	PIPE TO ELBOW	B-75
C-F-1		C5 21		4-CH-12/34	ELBOW TO PIPE	B-75
C-F-1		C5 21		4-CH-12/35	PIPE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/36	PIPE TO PIPE	B-75
C-F-1		C5 21		4-CH-12/37	PIPE TO PIPE	B-75
C-F-1		C5 21		4-CH-13/01	PIPE TO ELBOW	B-76
C-F-1	2	C5 21		4-CH-13/02	ELBOW TO PIPE	B-76
C-F-1		C5.21		4-CH-13/03	PIPE TO ELBOW	B-76
C-F-1	2	C5 21		4-CH-13/04	ELBOW TO PIPE	B-76

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-F-1		C5.21		4-CH-13/05	PIPE TO ELBOW	B-76
C-F-1		C5 21		4-CH-13/06	ELBOW TO PIPE	B-76
C-F-1		C5 21		4-CH-13/07	PIPE TO TEE	B-76
C-F-1		C5 21		4-CH-13/08	TEE TO REDUCER	B-76
C-F-1		C5 21		4-CH-13/09	TEE TO PIPE	B-76
C-F-1		C5 21		4-CH-13/09A	PIPE TO PIPE	B-76
C-F-1		C5 21		4-CH-13/09B	PIPE TO PIPE	B-76
C-F-1		C5 21		4-CH-13/10	PIPE TO PIPE	B-76
C-F-1		C5 21		4-CH-13/11	TEE TO PIPE	B-76
C-F-1		C5 21		4-CH-13/12	PIPE TO ELBOW	B-76
C-F-1		C5 21		4-CH-13/13	ELBOW TO PIPE	B-76
C-F-1		C5 21		4-CH-13/14	PIPE TO ELBOW	B-76
C-F-1		C5 21		4-CH-13/15	ELBOW TO PIPE	B-76
C-F-1		C5 21		4-CH-13/16	PIPE TO ELBOW	B-76
C-F-1		C5 21		4-CH-13/17	ELBOW TO PIPE	B-76
C-F-1		C5.21		4-CH-13/18	PIPE TO ELBOW	B-76
C-F-1		C5 21		4-CH-13/19	ELBOW TO PIPE	B-76
C-F-1		C5 21		4-CH-13/20	PIPE TO TEE	B-76
C-F-1		C5 21		4-CH-13/21	PIPE TO REDUCER	B-76
C-F-1		C5.21		4-CH-14/01	PIPE TO ELBOW	B-81
C-F-1		C5.21		4-CH-14/02	ELBOW TO PIPE	B-81
C-F-1		C5.21		4-CH-14/03	PIPE TO ELBOW	B-81
C-F-1		C5.21		4-CH-14/04	ELBOW TO PIPE	B-81
C-F-1		C5.21		4-CH-14/05	PIPE TO ELBOW	B-81
C-F-1		C5.21		4-CH-14/06	ELBOW TO PIPE	B-81
C-F-1		C5.21		4-CH-14/07	PIPE TO TEE	B-81
C-F-1		C5.21		4-CH-14/08	TEE TO REDUCER	B-81
C-F-1		C5.21		4-CH-14/09	TEE TO PIPE	B-81
C-F-1		C5.21		4-CH-14/10	PIPE TO PIPE	B-81
C-F-1		C5 21		4-CH-14/10A	PIPE TO PIPE	B-81
C-F-1		C5 21		4-CH-14/11	PIPE TO ELBOW	B-81
C-F-1		C5 21		4-CH-14/12	ELBOW TO PIPE	B-81
C-F-1		C5 21		4-CH-14/13	PIPE TO ELBOW	B-81
C-F-1		C5 21		4-CH-14/14	ELBOW TO PIPE	B-81
C-F-1		C5 21		4-CH-14/15	PIPE TO ELBOW	B-81
C-F-1		C5 21		4-CH-14/16	ELBOW TO PIPE	B-81
C-F-1		C5 21		4-CH-14/17	PIPE TO ELBOW	B-81
C-F-1		C5 21		4-CH-14/18	ELBOW TO PIPE	B-81
C-F-1		C5 21		4-CH-14/19	PIPE TO PIPE	B-81
C-F-1		C5 21		4-CH-14/20	PIPE TO REDUCER	B-81
C-F-1		C5 30		2-CH-10/01	ELBOW TO PIPE	B-60
C-F-1		C5 30		2-CH-10/02	PIPE TO ELBOW	B-60
C-F-1		C5 30		2-CH-10/03	ELBOW TO PIPE	B-60
C-F-1		C5 30		2-CH-10/04	PIPE TO TEE	B-60
C-F-1		C5 30		2-CH-10/05	PIPE TO VALVE	B-60
C-F-1		C5 30		2-CH-10/06	TEE TO PIPE	B-60
C-F-1		C5 30		2-CH-10/07	TEE TO PIPE	B-60
C-F-1		C5 30		2-CH-10/08	PIPE TO ELBOW	B-60
C-F-1		C5 30		2-CH-10/09	ELBOW TO PIPE	B-60

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C-F-1		C5.30		2-CH-10/10	PIPE TO ELBOW	B-60
C-F-1		C5.30		2-CH-10/11	ELBOW TO PIPE	B-60
C-F-1		C5.30		2-CH-10/12	PIPE TO VALVE	B-60
C-F-1		C5.30		2-CH-11/01	ELBOW TO PIPE	B-61
C-F-1		C5.30		2-CH-11/02	PIPE TO TEE	B-61
C-F-1		C5.30		2-CH-11/03	TEE TO PIPE	B-61
C-F-1		C5.30		2-CH-11/04	PIPE TO COUPLING	B-61
C-F-1		C5 30		2-CH-11/05	COUPLING TO PIPE	B-61
C-F-1		C5 30		2-CH-11/06	PIPE TO ELBOW	B-61
C-F-1		C5 30		2-CH-11/07	ELBOW TO PIPE	B-61
C-F-1		C5 30		2-CH-11/08	PIPT TO ELBOW	B-61
C-F-1		C5 30		2-CH-11/09	ELBOW TO PIPE	B-61
C-F-1		C5 30		2-CH-11/10	PIPE TO ELBOW	B-61
C-F-1		C5 30		2-CH-11/11	ELBOW TO PIPE	B-61
C-F-1		C5 30		2-CH-11/12	PIPE TO ELBOW	B-61
C-F-1		C5 30		2-CH-11/13	ELBOW TO PIPE	B-61
C-F-1		C5 30		2-CH-11/14	PIPE TO ELBOW	B-61
C-F-1		C5 30		2-CH-12/01	ELBOW TO PIPE	B-62
C-F-1		C5 30		2-CH-12/02	PIPE TO COUPLING	B-62
C-F-1		C5 30		2-CH-12/03	COUPLING TO PIPE	B-62
C-F-1		C5 30		2-CH-12/04	PIPE TO COUPLING	B-62
C-F-1		C5 30		2-CH-12/05	COUPLING TO PIPE	B-62
C-F-1		C5 30		2-CH-12/06	PIPE TO ELBOW	B-62
C-F-1		C5 30		2-CH-12/07	ELBOW TO PIPE	B-62
C-F-1		C5 30		2-CH-12/08	PIPE TO ELBOW	B-62
C-F-1		C5 30		2-CH-12/09	ELBOW TO PIPE	B-62
C-F-1		C5 30		2-CH-12/10	PIPE TO ELBOW	B-62
C-F-1		C5 30		2-CH-12/11	ELBOW TO PIPE	B-62
C-F-1		C5 30		2-CH-12/12	PIPE TO COUPLING	B-62
C-F-1		C5 30		2-CH-12/13	COUPLING TO PIPE	B-62
C-F-1		C5 30		2-CH-12/14	PIPE TO VALVE	B-62
C-F-1		C5 30		2-CH-12/15	VALVE TO PIPE	B-62
C-F-1		C5 30		2-CH-12/16	PIPE TO COUPLING	B-62
C-F-1		C5 30		2-CH-12/17	COUPLING TO PIPE	B-62
C-F-1		C5 30		2-CH-12/18	PIPE TO ELBOW	B-62
C-F-1		C5 30		2-CH-12/19	ELBOW TO PIPE	B-62
C-F-1		C5 30		2-CH-12/20	PIPE TO TEE	B-62
C-F-1		C5 30		2-CH-12/21	TEE TO PIPE	B-62
C-F-1		C5 30		2-CH-12/22	PIPE TO TEE	B-62
C-F-1		C5 30		2-CH-12/23	TEE TO PIPE	B-62
C-F-1		C5 30		2-CH-12/24	PIPE TO VALVE	B-62
C-F-1		C5 30		2-CH-12/25	TEE TO PIPE	B-62
C-F-1		C5 30		2-CH-12/26	PIPE TO ELBOW	B-62
C-F-1		C5 30		2-CH-12/27	ELBOW TO PIPE	B-62
C-F-1		C5 30		2-CH-12/28	PIPE TO VALVE	B-62
C-F-1		C5 30		2-CH-13/01	PIPE TO TEE	B-63
C-F-1		C5 30		2-CH-13/02	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/03	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/04	ELBOW TO PIPE	B-63

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C-F-1		C5.30		2-CH-13/05	PIPE TO ELBOW	B-63
C-F-1		C5.30		2-CH-13/06	COUPLING TO PIPE	B-63
C-F-1		C5.30		2-CH-13/07	PIPE TO COUPLING	B-63
C-F-1		C5.30		2-CH-13/08	ELBOW TO PIPE	B-63
C-F-1		C5.30		2-CH-13/09	PIPE TO ELBOW	B-63
C-F-1		C5.30		2-CH-13/10	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/11	PIPE TO ELBOW	B-63
C-F-1		C5.30		2-CH-13/12	ELBOW TO PIPE	B-63
C-F-1		C5.30		2-CH-13/13	PIPE TO ELBOW	B-63
C-F-1		C5.30		2-CH-13/14	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/15	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/16	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/17	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/18	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/19	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/20	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/21	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/22	TEE TO PIPE	B-63
C-F-1		C5 30		2-CH-13/22A	PIPE TO TEE	B-63
C-F-1		C5 30		2-CH-13/22B	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/22C	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/22D	TEE TO PIPE	B-46
C-F-1		C5.30		2-CH-13/22E	TEE TO REDUCER	B-63
C-F-1		C5 30		2-CH-13/22F	COUPLING TO PIPE	B-63
C-F-1		C5 30		2-CH-13/22G	NOZZLE TO COUPLING	B-63
C-F-1		C5 30		2-CH-13/23	TEE TO PIPE	B-63
C-F-1		C5 30		2-CH-13/24	PIPE TO COUPLING	B-63
C-F-1		C5 30		2-CH-13/25	COUPLING TO PIPE	B-63
C-F-1		C5 30		2-CH-13/26	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/27	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/28	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/29	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/30	PIPE TO ELBOW	B-63
C-F-1		C5.30		2-CH-13/31	ELBOW TO PIPE	B-63
C-F-1		C5.30		2-CH-13/32	PIPE TO ELBOW	B-63
C-F-1		C5.30		2-CH-13/33	ELBOW TO PIPE	B-63
C-F-1		C5.30		2-CH-13/34	PIPE TO ELBOW	B-63
C-F-1		C5.30		2-CH-13/35	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/36	PIPE TO COUPLING	B-63
C-F-1		C5 30		2-CH-13/37	COUPLING TO PIPE	B-63
C-F-1		C5 30		2-CH-13/38	PIPE TO VALVE	B-63
C-F-1		C5 30		2-CH-13/39	VALVE TO PIPE	B-63
C-F-1		C5 30		2-CH-13/40	PIPE TO COUPLING	B-63
C-F-1		C5 30		2-CH-13/41	COUPLING TO PIPE	B-63
C-F-1		C5 30		2-CH-13/42	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/43	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/44	PIPE TO ELBOW	B-63
C-F-1		C5 30		2-CH-13/45	ELBOW TO PIPE	B-63
C-F-1		C5 30		2-CH-13/46	PIPE TO VALVE	B-63

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-F-1	2	C5 30		2-CH-14/01	PIPE TO COUPLING	B-64
C-F-1		C5 30		2-CH-14/01A	COUPLING TO PIPE	B-64
C-F-1		C5 30		2-CH-14/02	PIPE TO ELBOW	B-64
C-F-1	2	C5 30		2-CH-14/03	ELBOW TO PIPE	B-64
C-F-1	2	C5 30		2-CH-14/04	PIPE TO ELBOW	B-64
C-F-1		C5 30		2-CH-14/05	ELBOW TO PIPE	B-64
C-F-1		C5.30		2-CH-14/06	PIPE TO ELBOW	B-64
C-F-1		C5.30		2-CH-14/07	ELBOW TO PIPE	B-64
C-F-1		C5.30		2-CH-14/08	PIPE TO ELBOW	B-64
C-F-1		C5.30		2-CH-14/09	ELBOW TO PIPE	B-64
C-F-1		C5.30		2-CH-14/10	PIPE TO ELBOW	B-64
C-F-1		C5 30		2-CH-14/11	ELBOW TO PIPE	B-64
C-F-1		C5.30		2-CH-14/12	PIPE TO COUPLING	B-64
C-F-1		C5 30		2-CH-14/13	COUPLING TO PIPE	B-64
C-F-1		C5 30		2-CH-14/14	PIPE TO ELBOW	B-64
C-F-1		C5 30		2-CH-14/15	ELBOW TO PIPE	B-64
C-F-1		C5 30		2-CH-14/16	PIPE TO ELBOW	B-64
C-F-1		C5 30		2-CH-14/17	ELBOW TO PIPE	B-64
C-F-1	2	C5 30		2-CH-14/18	PIPE TO ELBOW	B-64
C-F-1	2	C5 30		2-CH-14/19	ELBOW TO PIPE	B-64
C-F-1		C5 30		2-CH-14/20	PIPE TO ELBOW	B-64
C-F-1		C5 30		2-CH-14/21	ELBOW TO PIPE	B-64
C-F-1		C5.30		2-CH-14/22	PIPE TO ELBOW	B-64
C-F-1		C5 30		2-CH-14/23	ELBOW TO PIPE	B-64
C-F-1		C5 30		2-CH-14/24	PIPE TO ELBOW	B-64
C-F-1		C5 30		2-CH-14/25	ELBOW TO PIPE	B-64
C-F-1		C5 30		2-CH-14/26	PIPE TO ELBOW	B-64
C-F-1		C5 30		2-CH-14/27	ELBOW TO PIPE	B-64
C-F-1		C5 30		2-CH-14/28	PIPE TO ELBOW	B-64
C-F-1		C5 30		2-CH-14/29	ELBOW TO PIPE	B-64
C-F-1		C5 30		2-CH-14/30	PIPE TO EXPANDER	B-64
C-F-1		C5.30		2-CH-15/01	REDUCER TO ELBOW	B-65
C-F-1		C5.30		2-CH-15/02	ELBOW TO PIPE	B-65
C-F-1		C5.30		2-CH-15/03	PIPE TO ELBOW	B-65
C-F-1		C5.30		2-CH-15/04	ELBOW TO PIPE	B-65
C-F-1		C5.30		2-CH-15/05	PIPE TO ELBOW	B-65
C-F-1		C5.30		2-CH-15/06	ELBOW TO PIPE	B-65
C-F-1		C5.30		2-CH-15/07	PIPE TO COUPLING	B-65
C-F-1		C5.30		2-CH-15/08	COUPLING TO PIPE	B-65
C-F-1		C5.30		2-CH-15/09	PIPE TO VALVE	B-65
C-F-1	1	C5.30		2-CH-15/10	VALVE TO PIPE	B-65
C-F-1	1	C5.30		2-CH-15/11	PIPE TO ELBOW	B-65
C-F-1	1	C5 30		2-CH-15/12	ELBOW TO PIPE	B-65
C-F-1		C5 30		2-CH-15/13	PIPE TO ELBOW	B-65
C-F-1		C5 30		2-CH-15/14	ELBOW TO PIPE	B-65
C-F-1		C5 30		2-CH-15/15	PIPE TO VALVE	B-65
C-F-1	3	C5 30		2-CH-15/16	VALVE TO PIPE	B-65
C-F-1		C5 30		2-CH-15/17	PIPE TO COUPLING	B-65
C-F-1	3	C5 30		2-CH-15/18	COUPLING TO PIPE	B-65

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C-F-1		C5.30		2-CH-16/01	ELBOW TO PIPE	B-66
C-F-1		C5 30		2-CH-16/02	PIPE TO ELBOW	B-66
C-F-1		C5 30		2-CH-16/03	ELBOW TO PIPE	B-66
C-F-1		C5 30		2-CH-16/04	PIPE TO ELBOW	B-66
C-F-1		C5 30		2-CH-16/05	ELBOW TO PIPE	B-66
C-F-1		C5 30		2-CH-16/06	PIPE TO COUPLING	B-66
C-F-1		C5 30		2-CH-16/07	COUPLING TO PIPE	B-66
C-F-1		C5 30		2-CH-16/08	PIPE TO COUPLING	B-66
C-F-1		C5.30		2-CH-16/09	COUPLING TO PIPE	B-66
C-F-1		C5.30		2-CH-16/10	PIPE TO COUPLING	B-66
C-F-1		C5.30		2-CH-16/11	COUPLING TO PIPE	B-66
C-F-1		C5.30		2-CH-16/12	PIPE TO ELBOW	B-66
C-F-1		C5 30		2-CH-16/13	ELBOW TO EXPANDER	B-66
C-F-1		C5 30		2-CH-17/02	PIPE TO ELBOW	B-67
C-F-1		C5 30		2-CH-17/03	ELBOW TO PIPE	B-67
C-F-1		C5 30		2-CH-17/04	PIPE TO COUPLING	B-67
C-F-1		C5.30		2-CH-17/05	COUPLING TO PIPE	B-67
C-F-1		C5 30		2-CH-17/06	PIPE TO ELBOW	B-67
C-F-1		C5 30		2-CH-17/07	ELBOW TO PIPE	B-67
C-F-1		C5 30		2-CH-17/08	PIPE TO ELBOW	B-67
C-F-1		C5 30		2-CH-17/09	ELBOW TO PIPE	B-67
C-F-1		C5.30		2-CH-17/10	PIPE TO ELBOW	B-67
C-F-1		C5.30		2-CH-17/11	ELBOW TO PIPE	B-67
C-F-1		C5.30		2-CH-17/12	PIPE TO ELBOW	B-67
C-F-1		C5.30		2-CH-17/13	ELBOW TO PIPE	B-67
C-F-1		C5 30		2-CH-17/14	PIPE TO ELBOW	B-67
C-F-1		C5 30		2-CH-18/01	TEE TO REDUCER	B-68
C-F-1		C5 30		2-CH-18/02	PIPE TO TEE	B-68
C-F-1		C5 30		2-CH-18/02A	FLANGE TO PIPE	B-68
C-F-1		C5 30		2-CH-18/02B	NOZZLE TO FLANGE	B-68
C-F-1		C5 30		2-CH-18/03	TEE TO PIPE	B-68
C-F-1		C5 30		2-CH-18/04	PIPE TO TEE	B-68
C-F-1		C5 30		2-CH-18/04A	TEE TO REDUCER	B-68
C-F-1		C5 30		2-CH-18/05	TEE TO PIPE	B-68
C-F-1		C5 30		2-CH-18/06	PIPE TO ELBOW	B-68
C-F-1		C5 30		2-CH-18/07	ELBOW TO PIPE	B-68
C-F-1		C5 30		2-CH-18/08	PIPE TO ELBOW	B-68
C-F-1		C5 30		2-CH-18/09	ELBOW TO PIPE	B-68
C-F-1		C5 30		2-CH-18/10	PIPE TO ELBOW	B-68
C-F-1		C5.30		2-CH-18/11	ELBOW TO PIPE	B-68
C-F-1		C5.30		2-CH-18/12	PIPE TO TEE	B-68
C-F-1		C5.30		2-CH-18/12A	TEE TO REDUCER	B-68
C-F-1		C5.30		2-CH-18/13	TEE TO PIPE	B-68
C-F-1		C5.30		2-CH-18/14	PIPE TO ELBOW	B-68
C-F-1		C5 30		2-CH-18/15	ELBOW TO PIPE	B-68
C-F-1		C5 30		2-CH-18/16	PIPE TO TEE	B-68
C-F-1		C5 30		2-CH-18/16A	TEE TO REDUCER	B-68
C-F-1		C5 30		2-CH-18/17	TEE TO PIPE	B-68
C-F-1		C5.30		2-CH-18/18	PIPE TO ELBOW	B-68

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-F-1		C5.30		2-CH-18/19	ELBOW TO PIPE	B-68
C-F-1		C5.30		2-CH-18/20	PIPE TO VALVE	B-68
C-F-1		C5.30		2-CH-18/21	VALVE TO PIPE	B-68
C-F-1		C5.30		2-CH-18/22	PIPE TO TEE	B-68
C-F-1		C5.30		2-CH-18/22A	TEE TO REDUCER	B-68
C-F-1		C5.30		2-CH-18/23	TEE TO PIPE	B-68
C-F-1		C5.30		2-CH-18/24	PIPE TO VALVE	B-68
C-F-1		C5.30		2-CH-18/25	VALVE TO PIPE	B-68
C-F-1		C5.30		2-CH-18/26	PIPE TO TEE	B-68
C-F-1		C5.30		2-CH-18/27	TEE TO PIPE	B-68
C-F-1		C5.30		2-CH-18/28	PIPE TO ELBOW	B-68
C-F-1		C5.30		2-CH-18/29	ELBOW TO PIPE	B-68
C-F-1		C5.30		2-CH-18/30	PIPE TO TEE	B-68
C-F-1		C5.30		2-CH-18/30A	TEE TO REDUCER	B-68
C-F-1		C5.30		2-CH-18/31	TEE TO PIPE	B-68
C-F-1		C5.30		2-CH-18/32	PIPE TO TEE	B-68
C-F-1		C5 30		2-CH-18/32A	TEE TO REDUCER	B-68
C-F-1		C5.30		2-CH-18/33	TEE TO PIPE	B-68
C-F-1		C5.30		2-CH-18/34	PIPE TO ELBOW	B-68
C-F-1		C5 30		2-CH-18/35	ELBOW TO PIPE	B-68
C-F-1		C5 30		2-CH-19/01	TEE TO REDUCER	B-69
C-F-1		C5.30		2-CH-19/02	PIPE TO TEE	B-69
C-F-1		C5 30		2-CH-19/02A	FLANGE TO PIPE	B-69
C-F-1		C5.30		2-CH-19/02B	NOZZLE TO FLANGE	B-69
C-F-1		C5.30		2-CH-19/03	TEE TO PIPE	B-69
C-F-1		C5.30		2-CH-19/04	PIPE TO TEE	B-69
C-F-1		C5.30		2-CH-19/04A	TEE TO REDUCER	B-69
C-F-1		C5.30		2-CH-19/05	TEE TO PIPE	B-69
C-F-1		C5.30		2-CH-19/06	PIPE TO ELBOW	B-69
C-F-1		C5 30		2-CH-19/07	ELBOW TO PIPE	B-69
C-F-1		C5.30		2-CH-19/08	PIPE TO ELBOW	B-69
C-F-1		C5 30		2-CH-19/09	ELBOW TO PIPE	B-69
C-F-1		C5 30		2-CH-19/10	PIPE TO TEE	B-69
C-F-1		C5 30		2-CH-19/10A	TEE TO REDUCER	B-69
C-F-1		C5 30		2-CH-19/11	TEE TO PIPE	B-69
C-F-1		C5 30		2-CH-19/12	PIPE TO ELBOW	B-69
C-F-1		C5 30		2-CH-19/13	ELBOW TO PIPE	B-69
C-F-1		C5 30		2-CH-19/14	PIPE TO ELBOW	B-69
C-F-1		C5 30		2-CH-19/15	ELBOW TO PIPE	B-69
C-F-1		C5 30		2-CH-19/16	PIPE TO VALVE	B-69
C-F-1		C5 30		2-CH-19/17	VALVE TO PIPE	B-69
C-F-1		C5 30		2-CH-19/18	PIPE TO TEE	B-69
C-F-1		C5.30		2-CH-19/18A	TEE TO REDUCER	B-69
C-F-1		C5.30		2-CH-19/19	TEE TO PIPE	B-69
C-F-1		C5 30		2-CH-19/20	PIPE TO VALVE	B-69
C-F-1		C5.30		2-CH-19/21	VALVE TO PIPE	B-69
C-F-1		C5 30		2-CH-19/22	PIPE TO ELBOW	B-69
C-F-1		C5 30		2-CH-19/23	ELBOW TO PIPE	B-69
C-F-1		C5 30		2-CH-19/24	PIPE TO TEE	B-69

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C-F-1		C5 30		2-CH-20/01	TEE TO PIPE	B-70
C-F-1		C5 30		2-CH-20/02	PIPE TO ELBOW	B-70
C-F-1		C5 30		2-CH-20/03	ELBOW TO PIPE	B-70
C-F-1		C5 30		2-CH-20/04	PIPE TO COUPLING	B-70
C-F-1		C5 30		2-CH-20/05	COUPLING TO PIPE	B-70
C-F-1		C5 30		2-CH-20/06	PIPE TO TEE	B-70
C-F-1		C5 30		2-CH-20/07	TEE TO PIPE	B-70
C-F-1		C5 30		2-CH-20/08	PIPE TO VALVE	B-70
C-F-1		C5 30		2-CH-20/09	VALVE TO PIPE	B-70
C-F-1		C5 30		2-CH-20/10	PIPE TO ELBOW	B-70
C-F-1		C5 30		2-CH-20/11	ELBOW TO PIPE	B-70
C-F-1		C5 30		2-CH-20/12	PIPE TO TEE	B-70
C-F-1		C5 30		2-CH-20/13	TEE TO PIPE	B-70
C-F-1		C5 30		2-CH-20/14	PIPE TO ELBOW	B-70
C-F-1		C5 30		2-CH-20/15	ELBOW TO PIPE	B-70
C-F-1		C5 30		2-CH-20/16	PIPE TO COUPLING	B-70
C-F-1		C5 30		2-CH-20/17	COUPLING TO PIPE	B-70
C-F-1		C5 30		2-CH-20/18	PIPE TO ELBOW	B-70
C-F-1		C5 30		2-CH-20/19	ELBOW TO PIPE	B-70
C-F-1		C5 30		2-CH-20/20	PIPE TO ELBOW	B-70
C-F-1		C5 30		2-CH-20/21	ELBOW TO PIPE	B-70
C-F-1		C5.30		2-CH-20/22	PIPE TO ELBOW	B-70
C-F-1		C5.30		2-CH-21/01	TEE TO REDUCER	B-71
C-F-1		C5.30		2-CH-21/02	PIPE TO TEE	B-71
C-F-1		C5.30		2-CH-21/02A	FLANGE TO PIPE	B-71
C-F-1		C5.30		2-CH-21/02B	NOZZLE TO FLANGE	B-71
C-F-1		C5 30		2-CH-21/03	TEE TO PIPE	B-71
C-F-1		C5 30		2-CH-21/04	PIPE TO TEE	B-71
C-F-1		C5 30		2-CH-21/04A	TEE TO REDUCER	B-71
C-F-1		C5 30		2-CH-21/05	TEE TO PIPE	B-71
C-F-1		C5 30		2-CH-21/06	PIPE TO ELBOW	B-71
C-F-1		C5.30		2-CH-21/07	ELBOW TO PIPE	B-71
C-F-1		C5 30		2-CH-21/08	PIPE TO ELBOW	B-71
C-F-1		C5 30		2-CH-21/09	ELBOW TO PIPE	B-71
C-F-1		C5 30		2-CH-21/10	PIPE TO TEE	B-71
C-F-1		C5.30		2-CH-21/10A	TEE TO REDUCER	B-71
C-F-1		C5 30		2-CH-21/11	TEE TO PIPE	B-71
C-F-1		C5 30		2-CH-21/12	PIPE TO ELBOW	B-71
C-F-1		C5 30		2-CH-21/13	ELBOW TO PIPE	B-71
C-F-1		C5 30		2-CH-21/14	PIPE TO ELBOW	B-71
C-F-1		C5 30		2-CH-21/15	ELBOW TO PIPE	B-71
C-F-1		C5 30		2-CH-21/16	PIPE TO VALVE	B-71
C-F-1		C5 30		2-CH-21/17	VALVE TO PIPE	B-71
C-F-1		C5 30		2-CH-21/18	PIPE TO TEE	B-71
C-F-1		C5 30		2-CH-21/18A	TEE TO REDUCER	B-71
C-F-1		C5 30		2-CH-21/19	TEE TO PIPE	B-71
C-F-1		C5 30		2-CH-21/20	PIPE TO VALVE	B-71
C-F-1		C5 30		2-CH-21/21	VALVE TO PIPE	B-71
C-F-1		C5 30		2-CH-21/22	PIPE TO ELBOW	B-71

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-F-1		C5 30		2-CH-21/23	ELBOW TO PIPE	B-71
C-F-1		C5.30		2-CH-21/24	PIPE TO ELBOW	B-71
C-F-1		C5 30		2-CH-21/25	ELBOW TO PIPE	B-71
C-F-1		C5 30		2-CH-22/01	ELBOW TO PIPE	B-72
C-F-1		C5 30		2-CH-22/02	PIPE TO ELBOW	B-72
C-F-1		C5 30		2-CH-22/03	ELBOW TO PIPE	B-72
C-F-1		C5 30		2-CH-22/04	PIPE TO ELBOW	B-72
C-F-1		C5.30		2-CH-22/05	ELBOW TO PIPE	B-72
C-F-1		C5.30		2-CH-22/06	PIPE TO ELBOW	B-72
C-F-1		C5.30		2-CH-22/07	ELBOW TO PIPE	B-72
C-F-1		C5 30		2-CH-22/08	PIPE TO COUPLING	B-72
C-F-1		C5 30		2-CH-22/09	COUPLING TO PIPE	B-72
C-F-1		C5 30		2-CH-22/10	PIPE TO COUPLING	B-72
C-F-1		C5 30		2-CH-22/11	COUPLING TO PIPE	B-72
C-F-1		C5 30		2-CH-22/12	PIPE TO COUPLING	B-72
C-F-1		C5 30		2-CH-22/13	COUPLING TO PIPE	B-72
C-F-1		C5.30		2-CH-22/14	PIPE TO ELBOW	B-72
C-F-1		C5 30		2-CH-22/15	ELBOW TO PIPE	B-72
C-F-1		C5 30		2-CH-22/16	PIPE TO ELBOW	B-72
C-F-1		C5 30		2-CH-22/17	ELBOW TO PIPE	B-72
C-F-1		C5 30		2-CH-22/18	PIPE TO COUPLING	B-72
C-F-1		C5 30		2-CH-22/19	COUPLING TO PIPE	B-72
C-F-1		C5 30		2-CH-22/20	PIPE TO ELBOW	B-72
C-F-1		C5 30		2-CH-22/21	ELBOW TO PIPE	B-72
C-F-1		C5 30		2-CH-22/22	PIPE TO ELBOW	B-72
C-F-1		C5 30		2-CH-22/23	ELBOW TO PIPE	B-72
C-F-1		C5 30		2-CH-22/24	PIPE TO TEE	B-72
C-F-1		C5 30		2-CH-22/25	TEE TO PIPE	B-72
C-F-1		C5 30		2-CH-22/26	PIPE TO ELBOW	B-72
C-F-1	1	C5 30		2-CH-22/27	ELBOW TO PIPE	B-72
C-F-1		C5 30		2-CH-22/28	PIPE TO VALVE	B-72
C-F-1		C5 30		2-CH-22/29	VALVE TO PIPE	B-72
C-F-1		C5 30		2-CH-22/30	PIPE TO TEE	B-72
C-F-1		C5 30		2-CH-22/31	TEE TO PIPE	B-72
C-F-1		C5 30		2-CH-22/32	PIPE TO VALVE	B-72
C-F-1		C5 30		2-CH-22/33	VALVE TO PIPE	B-72
C-F-1		C5 30		2-CH-22/34	PIPE TO TEE	B-72
C-F-1	3	C5 30		2-CH-22/35	TEE TO REDUCER	B-72
C-F-1	3	C5 30		2-CH-22/36	TEE TO PIPE	B-72
C-F-1		C5 30		2-CH-22/37	PIPE TO VALVE	B-72
C-F-1	3	C5 30		2-CH-22/38	VALVE TO PIPE	B-72
C-F-1	3	C5 30		2-CH-22/39	PIPE TO ELBOW	B-72
C-F-1		C5 30		2-CH-22/40	ELBOW TO PIPE	B-72
C-F-1		C5 30		2-CH-22/41	PIPE TO TEE	B-72
C-F-1		C5 30		2-CH-22/42	TEE TO PIPE	B-72
C-F-1		C5 30		2-CH-22/43	PIPE TO ELBOW	B-72
C-F-1		C5 30		2-CH-22/44	ELBOW TO PIPE	B-72
C-F-1		C5.30		2-CH-22/45	PIPE TO TEE	B-72
C-F-1	1	C5 30		2-CH-23/01A	BRANCH TO PIPE	B-74

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C-F-1		C5.30		2-CH-23/01B	BRANCH TO PIPE	B-75
C-F-1	2	C5 30		2-CH-23/01C	BRANCH TO PIPE	B-74
C-F-1		C5 30		2-CH-23/02A	PIPE TO VALVE	B-74
C-F-1		C5 30		2-CH-23/02B	PIPE TO VALVE	B-75
C-F-1	2	C5.30		2-CH-23/02C	PIPE TO VALVE	B-74
C-F-1		C5.30		2-CH-24/01	TEE TO PIPE	B-77
C-F-1		C5.30		2-CH-24/02	PIPE TO ELBOW	B-77
C-F-1		C5 30		2-CH-24/03	ELBOW TO PIPE	B-77
C-F-1		C5 30		2-CH-24/04	PIPE TO ELBOW	B-77
C-F-1		C5 30		2-CH-24/05	ELBOW TO PIPE	B-77
C-F-1		C5 30		2-CH-24/06	PIPE TO ELBOW	B-77
C-F-1		C5 30		2-CH-24/07	ELBOW TO PIPE	B-77
C-F-1		C5 30		2-CH-24/08	PIPE TO VALVE	B-71
C-F-1		C5 30		2-CH-24/09	VALVE TO PIPE	B-77
C-F-1		C5 30		2-CH-24/10	PIPE TO VALVE	B-77
C-F-1		C5 30		2-CH-25/01	REDUCER TO PIPE	B-78
C-F-1		C5 30		2-CH-25/02	PIPE TO COUPLING	B-78
C-F-1		C5.30		2-CH-25/03	COUPLING TO PIPE	B-78
C-F-1		C5.30		2-CH-25/04	PIPE TO COUPLING	B-78
C-F-1		C5.30		2-CH-25/05	COUPLING TO PIPE	B-78
C-F-1		C5.30		2-CH-25/06	PIPE TO COUPLING	B-78
C-F-1		C5.30		2-CH-25/07	COUPLING TO PIPE	B-78
C-F-1		C5.30		2-CH-25/08	PIPE TO ELBOW	B-78
C-F-1		C5 30		2-CH-25/09	ELBOW TO PIPE	B-78
C-F-1	1	C5 30		2-CH-25/10	PIPE TO ELBOW	B-78
C-F-1	1	C5 30		2-CH-25/11	ELBOW TO PIPE	B-78
C-F-1		C5 30		2-CH-25/12	PIPE TO VALVE	B-78
C-F-1	1	C5 30		2-CH-25/13	VALVE TO PIPE	B-78
C-F-1	1	C5 30		2-CH-25/14	PIPE TO VALVE	B-78
C-F-1		C5 30		2-CH-26/01	REDUCER TO PIPE	B-79
C-F-1		C5 30		2-CH-26/02	PIPE TO COUPLING	B-79
C-F-1	--	C5 30		2-CH-26/03	COUPLING TO PIPE	B-79
C-F-1		C5 30		2-CH-26/03A	PIPE TO COUPLING	B-79
C-F-1		C5.30		2-CH-26/03B	COUPLING TO PIPE	B-79
C-F-1		C5.30		2-CH-26/04	PIPE TO ELBOW	B-79
C-F-1		C5.30		2-CH-26/05	ELBOW TO PIPE	B-79
C-F-1		C5.30		2-CH-26/06	PIPE TO ELBOW	B-79
C-F-1		C5.30		2-CH-26/07	ELBOW TO PIPE	B-79
C-F-1	3	C5.30		2-CH-26/08	PIPE TO ELBOW	B-79
C-F-1	3	C5.30		2-CH-26/09	ELBOW TO PIPE	B-79
C-F-1		C5 30		2-CH-26/10	PIPE TO COUPLING	B-79
C-F-1		C5 30		2-CH-26/11	COUPLING TO PIPE	B-79
C-F-1		C5.30		2-CH-26/12	PIPE TO ELBOW	B-79
C-F-1		C5 30		2-CH-26/13	ELBOW TO PIPE	B-79
C-F-1	2	C5 30		2-CH-26/14	PIPE TO ELBOW	B-79
C-F-1	2	C5 30		2-CH-26/15	ELBOW TO PIPE	B-79
C-F-1		C5 30		2-CH-26/16	PIPE TO ELBOW	B-79
C-F-1		C5 30		2-CH-26/17	ELBOW TO PIPE	B-79
C-F-1		C5 30		2-CH-26/18	PIPE TO ELBOW	B-79

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-F-1		C5 30		2-CH-26/19	ELBOW TO PIPE	B-79
C-F-1		C5.30		2-CH-26/20	PIPE TO VALVE	B-79
C-F-1		C5.30		2-CH-26/21	VALVE TO PIPE	B-79
C-F-1		C5 30		2-CH-26/22	PIPE TO VALVE	B-79
C-F-1		C5 30		2-CH-27/01	TEE TO PIPE	B-80
C-F-1		C5 30		2-CH-27/02	PIPE TO ELBOW	B-80
C-F-1		C5 30		2-CH-27/03	ELBOW TO PIPE	B-80
C-F-1		C5 30		2-CH-27/04	PIPE TO ELBOW	B-80
C-F-1		C5.30		2-CH-27/05	ELBOW TO PIPE	B-80
C-F-1		C5 30		2-CH-27/06	PIPE TO ELBOW	B-80
C-F-1		C5 30		2-CH-27/07	ELBOW TO PIPE	B-80
C-F-1		C5 30		2-CH-27/08	PIPE TO ELBOW	B-80
C-F-1		C5 30		2-CH-27/09	ELBOW TO PIPE	B-80
C-F-1		C5 30		2-CH-27/10	PIPE TO VALVE	B-80
C-F-1		C5 30		2-CH-27/11	VALVE TO PIPE	B-80
C-F-1		C5 30		2-CH-27/12	PIPE TO VALVE	B-80
C-F-1		C5 30		2-CH-28/01	TEE TO PIPE	B-82
C-F-1		C5.30		2-CH-28/02	PIPE TO ELBOW	B-82
C-F-1		C5 30		2-CH-28/03	ELBOW TO PIPE	B-82
C-F-1		C5 30		2-CH-28/04	PIPE TO ELBOW	B-82
C-F-1		C5 30		2-CH-28/05	ELBOW TO PIPE	B-82
C-F-1		C5 30		2-CH-28/06	PIPE TO ELBOW	B-82
C-F-1	1	C5 30		2-CH-28/07	ELBOW TO PIPE	B-82
C-F-1		C5.30		2-CH-28/08	PIPE TO VALVE	B-82
C-F-1		C5 30		2-CH-28/09	VALVE TO PIPE	B-82
C-F-1		C5 30		2-CH-28/10	PIPE TO VALVE	B-82
C-F-1		C5 30		2-CH-29/01	REDUCER TO PIPE	B-83
C-F-1		C5 30		2-CH-29/02	PIPE TO COUPLING	B-83
C-F-1		C5 30		2-CH-29/03	COUPLING TO PIPE	B-83
C-F-1	1	C5.30		2-CH-29/04	PIPE TO ELBOW	B-83
C-F-1	1	C5 30		2-CH-29/05	ELBOW TO PIPE	B-83
C-F-1		C5 30		2-CH-29/06	PIPE TO ELBOW	B-83
C-F-1		C5 30		2-CH-29/07	ELBOW TO PIPE	B-83
C-F-1		C5.30		2-CH-29/08	PIPE TO ELBOW	B-83
C-F-1		C5.30		2-CH-29/09	ELBOW TO PIPE	B-83
C-F-1		C5.30		2-CH-29/10	PIPE TO ELBOW	B-83
C-F-1		C5.30		2-CH-29/11	ELBOW TO PIPE	B-83
C-F-1		C5 30		2-CH-29/12	PIPE TO ELBOW	B-83
C-F-1		C5 30		2-CH-29/13	ELBOW TO PIPE	B-83
C-F-1		C5.30		2-CH-29/14	PIPE TO ELBOW	B-83
C-F-1		C5 30		2-CH-29/15	ELBOW TO PIPE	B-83
C-F-1		C5 30		2-CH-29/16	PIPE TO VALVE	B-83
C-F-1		C5.30		2-CH-29/17	VALVE TO PIPE	B-83
C-F-1		C5.30		2-CH-29/18	PIPE TO VALVE	B-83
C-F-1	2	C5 30		2-CH-30/01	REDUCER TO PIPE	B-84
C-F-1		C5.30		2-CH-30/02	PIPE TO ELBOW	B-84
C-F-1		C5.30		2-CH-30/03	ELBOW TO PIPE	B-84
C-F-1	2	C5.30		2-CH-30/04	PIPE TO ELBOW	B-84
C-F-1	2	C5.30		2-CH-30/05	ELBOW TO PIPE	B-84

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C-F-1		C5.30		2-CH-30/08	PIPE TO ELBOW	B-84
C-F-1		C5.30		2-CH-30/09	ELBOW TO PIPE	B-84
C-F-1		C5.30		2-CH-30/10	PIPE TO COUPLING	B-84
C-F-1		C5.30		2-CH-30/11	COUPLING TO PIPE	B-84
C-F-1		C5.30		2-CH-30/12	PIPE TO ELBOW	B-84
C-F-1		C5.30		2-CH-30/13	ELBOW TO PIPE	B-84
C-F-1	2	C5.30		2-CH-30/14	PIPE TO ELBOW	B-84
C-F-1	2	C5 30		2-CH-30/15	ELBOW TO PIPE	B-84
C-F-1		C5 30		2-CH-30/16	PIPE TO ELBOW	B-84
C-F-1		C5 30		2-CH-30/17	ELBOW TO PIPE	B-84
C-F-1		C5 30		2-CH-30/18	PIPE TO ELBOW	B-84
C-F-1	1	C5.30		2-CH-30/19	ELBOW TO PIPE	B-84
C-F-1		C5 30		2-CH-30/20	PIPE TO ELBOW	B-84
C-F-1		C5.30		2-CH-30/21	ELBOW TO PIPE	B-84
C-F-1		C5 30		2-CH-30/22	PIPE TO VALVE	B-84
C-F-1		C5 30		2-CH-30/23	VALVE TO PIPE	B-84
C-F-1		C5 30		2-CH-30/24	PIPE TO VALVE	B-84
C-F-1	2	C5.30		2-CH-31/01	TEE TO PIPE	B-85
C-F-1		C5 30		2-CH-31/02	PIPE TO PIPE	B-85
C-F-1		C5 30		2-CH-31/03	PIPE TO ELBOW	B-85
C-F-1		C5.30		2-CH-31/04	ELBOW TO PIPE	B-85
C-F-1		C5 30		2-CH-31/05	PIPE TO ELBOW	B-85
C-F-1		C5.30		2-CH-31/06	ELBOW TO PIPE	B-85
C-F-1		C5 30		2-CH-31/07	PIPE TO ELBOW	B-85
C-F-1		C5 30		2-CH-31/08	ELBOW TO PIPE	B-85
C-F-1		C5 30		2-CH-31/09	PIPE TO VALVE	B-85
C-F-1		C5 30		2-CH-31/10	VALVE TO PIPE	B-85
C-F-1		C5 30		2-CH-31/11	PIPE TO VALVE	B-85
C-F-1		C5 41		12-CSS-2001/01-BC-1	BRANCH (8-CSS-2001)	B-19
C-F-1	3	C5 41		12-CSS-2001/01-BC-2	BRANCH (8-CSS-2002)	B-19
C-F-1		C5 41		12-CSS-2001/01-BC-3	BRANCH (8-CSS-2003)	B-19
C-F-1		C5 41		4-CH-10/19-BC	BRANCH CONNECTION	B-73
C-F-1		C5 41		4-CH-11/05-BC	BRANCH CONNECTION	B-74
C-F-1		C5.41		4-CH-11/21-BC	BRANCH CONNECTION	B-74
C-F-1	3	C5.41		4-CH-12/10-BC	BRANCH CONNECTION	B-75
C-F-1		C5.41		4-CH-14/09-BC	BRANCH CONNECTION	B-81
C-F-1		C5.41		4-CH-14/19-BC	BRANCH CONNECTION	B-81
C-F-1		<0 375 Wall		10-LPH-2001/31	REDUCER TO PIPE	B-23
C-F-1		<0 375 Wall		10-LPH-2001/32	PIPE TO ELBOW	B-23
C-F-1		<0 375 Wall		10-LPH-2001/33	ELBOW TO PIPE	B-23
C-F-1		<0 375 Wall		10-LPH-2001/34	PIPE TO ELBOW	B-23
C-F-1		<0 375 Wall		10-LPH-2001/35	ELBOW TO PIPE	B-23
C-F-1		<0 375 Wall		10-LPH-2001/36	PIPE TO ELBOW	B-23
C-F-1		<0 375 Wall		10-LPH-2001/37	ELBOW TO PIPE	B-23
C-F-1		<0 375 Wall		10-LPH-2001/38	PIPE TO ELBOW	B-23
C-F-1		<0 375 Wall		10-LPH-2001/39	ELBOW TO PIPE	B-23
C-F-1		<0 375 Wall		10-LPH-2001/40	PIPE TO ELBOW	B-23
C-F-1		<0 375 Wall		10-LPH-2001/41	ELBOW TO PIPE	B-23
C-F-1		<0.375 Wall		10-LPH-2001/42	PIPE TO TEE	B-23

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C-F-1		<0 375 Wall		10-LPH-2001/43	TEE TO REDUCER	B-23
C-F-1		<0 375 Wall		10-LPSI-2001/01	TEE TO PIPE	B-24
C-F-1		<0 375 Wall		10-LPSI-2001/02	PIPE TO ELBOW	B-24
C-F-1		<0.375 Wall		10-LPSI-2001/03	ELBOW TO PIPE	B-24
C-F-1		<0 375 Wall		10-LPSI-2001/04	PIPE TO ELBOW	B-24
C-F-1		<0 375 Wall		10-LPSI-2001/05	ELBOW TO PIPE	B-24
C-F-1		<0 375 Wall		10-LPSI-2001/06	PIPE TO ELBOW	B-24
C-F-1		<0 375 Wall		10-LPSI-2001/07	ELBOW TO ELBOW	B-24
C-F-1		<0 375 Wall		10-LPSI-2001/08	ELBOW TO VALVE	B-24
C-F-1		<0 375 Wall		10-LPSI-2001/09	VALVE TO PIPE	B-24
C-F-1		<0.375 Wall		10-LPSI-2001/10	PIPE TO ELBOW	B-24
C-F-1		<0.375 Wall		10-LPSI-2001/11	ELBOW TO PIPE	B-24
C-F-1		<0.375 Wall		10-LPSI-2001/12	PIPE TO TEE	B-24
C-F-1		<0.375 Wall		10-LPSI-2002/01	REDUCER TO PIPE	B-25
C-F-1		<0.375 Wall		10-LPSI-2002/02	PIPE TO ELBOW	B-25
C-F-1		<0.375 Wall		10-LPSI-2002/03	ELBOW TO PIPE	B-25
C-F-1		<0.375 Wall		10-LPSI-2002/04	PIPE TO ELBOW	B-25
C-F-1		<0.375 Wall		10-LPSI-2002/05	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/06	PIPE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/07	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/08	PIPE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/09	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/10	PIPE TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/11	PIPE TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/12	PIPE TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/13	PIPE TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/14	PIPE TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/15	PIPE TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/16	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/17	PIPE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/18	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/19	PIPE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/20	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/21	PIPE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/22	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/22A	PIPE TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/23	PIPE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/24	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/25	PIPE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/26	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/27	PIPE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/28	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/29	PIPE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/30	ELBOW TO VALVE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/31	VALVE TO ELBOW	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/32	ELBOW TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/33	PIPE TO PIPE	B-25
C-F-1		<0 375 Wall		10-LPSI-2002/34	PIPE TO TEE	B-25
C-F-1		<0 375 Wall		12-CSS-2011/01	TEE TO PIPE	B-39

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C-F-1		<0 375 Wall		12-CSS-2011/01A	PIPE TO ELBOW	B-39
C-F-1		<0 375 Wall		12-CSS-2011/02	ELBOW TO PIPE	B-39
C-F-1		<0 375 Wall		12-CSS-2011/03	PIPE TO ELBOW	B-39
C-F-1		<0 375 Wall		12-CSS-2011/04	ELBOW TO PIPE	B-39
C-F-1		<0 375 Wall		12-CSS-2011/05	PIPE TO ELBOW	B-39
C-F-1		<0 375 Wall		12-CSS-2011/06	PIPE TO VALVE	B-39
C-F-1		<0 375 Wall		12-CSS-2012/01	PIPE TO ELBOW	B-39
C-F-1		<0 375 Wall		12-CSS-2012/01A	TEE TO PIPE	B-39
C-F-1		<0 375 Wall		12-CSS-2012/02	ELBOW TO PIPE	B-39
C-F-1		<0 375 Wall		12-CSS-2012/03	PIPE TO ELBOW	B-39
C-F-1		<0 375 Wall		12-CSS-2012/04	ELBOW TO VALVE	B-39
C-F-1		<0 375 Wall		12-CSS-2013/01	PIPE TO ELBOW	B-39
C-F-1		<0 375 Wall		12-CSS-2013/02	ELBOW TO PIPE	B-39
C-F-1		<0 375 Wall		12-CSS-2013/03	ELBOW TO PIPE	B-39
C-F-1		<0 375 Wall		12-CSS-2013/04	ELBOW TO PIPE	B-39
C-F-1		<0 375 Wall		12-CSS-2013/05	PIPE TO VALVE	B-39
C-F-1		<0 375 Wall		12-LPH-2001/02	FLANGE TO REDUCER (8")	B-16
C-F-1		<0 375 Wall		12-LPH-2001/12	TEE TO PIPE (8")	B-16
C-F-1		<0 375 Wall		14-LPSI-2001/01	VALVE TO ELBOW	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/02	ELBOW TO PIPE	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/03	PIPE TO ELBOW	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/04	ELBOW TO PIPE	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/05	PIPE TO TEE	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/06	TEE TO PIPE	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/07	PIPE TO REDUCER	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/08	REDUCER TO FLANGE	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/A1	TEE TO PIPE	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/A2	PIPE TO ELBOW	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/A3	ELBOW TO PIPE	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/A4	PIPE TO PIPE	B-09
C-F-1		<0 375 Wall		14-LPSI-2001/A5	PIPE TO VALVE	B-09
C-F-1		<0 375 Wall		14-LPSI-2002/01	VALVE TO ELBOW	B-10
C-F-1		<0 375 Wall		14-LPSI-2002/02	ELBOW TO ELBOW	B-10
C-F-1		<0 375 Wall		14-LPSI-2002/03	ELBOW TO PIPE	B-10
C-F-1		<0 375 Wall		14-LPSI-2002/04	PIPE TO TEE	B-10
C-F-1		<0 375 Wall		14-LPSI-2002/05	TEE TO REDUCER	B-10
C-F-1		<0 375 Wall		14-LPSI-2002/07	REDUCER FLANGE	B-10
C-F-1		<0 375 Wall		14-LPSI-2002/A2	ELBOW TO PIPE	B-10
C-F-1		<0 375 Wall		14-LPSI-2002/A3	PIPE TO ELBOW	B-10
C-F-1		<0 375 Wall		14-LPSI-2002/A4	ELBOW TO PIPE	B-10
C-F-1		<0 375 Wall		14-LPSI-2002/A5	PIPE TO VALVE	B-10
C-F-1		<0 375 Wall		6-CSS-2001/01	TEE TO PIPE	B-35
C-F-1		<0 375 Wall		6-CSS-2001/02	PIPE TO ELBOW	B-35
C-F-1		<0 375 Wall		6-CSS-2001/03	ELBOW TO PIPE	B-35
C-F-1		<0 375 Wall		6-CSS-2001/04	PIPE TO ELBOW	B-35
C-F-1		<0 375 Wall		6-CSS-2001/05	ELBOW TO PIPE	B-35
C-F-1		<0 375 Wall		6-CSS-2001/06	PIPE TO ELBOW	B-35
C-F-1		<0 375 Wall		6-CSS-2001/07	ELBOW TO PIPE	B-35
C-F-1		<0 375 Wall		6-CSS-2001/08	PIPE TO ELBOW	B-35

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C-F-1		<0.375 Wall		6-CSS-2001/09	ELBOW TO PIPE	B-35
C-F-1		<0.375 Wall		6-CSS-2001/10	PIPE TO TEE	B-35
C-F-1		<0.375 Wall		6-CSS-2001/11	TEE TO PIPE	B-35
C-F-1		<0.375 Wall		6-CSS-2001/11A	PIPE TO VALVE	B-35
C-F-1		<0.375 Wall		6-CSS-2001/12	TEE TO REDUCER	B-35
C-F-1		<0.375 Wall		6-CSS-2001/13	VALVE TO PIPE	B-35
C-F-1		<0.375 Wall		6-CSS-2001/14	PIPE TO ELBOW	B-35
C-F-1		<0.375 Wall		6-CSS-2001/15	ELBOW TO VALVE	B-35
C-F-1		<0.375 Wall		6-HPSI-2001/01	TEE TO PIPE	B-41
C-F-1		<0.375 Wall		6-HPSI-2001/02	PIPE TO ELBOW	B-41
C-F-1		<0.375 Wall		6-HPSI-2001/03	ELBOW TO PIPE	B-41
C-F-1		<0.375 Wall		6-HPSI-2001/04	PIPE TO VALVE	B-41
C-F-1		<0.375 Wall		6-HPSI-2001/05	VALVE TO TEE	B-41
C-F-1		<0.375 Wall		6-HPSI-2001/06	REDUCER TO TEE	B-41
C-F-1		<0.375 Wall		6-HPSI-2001/07	TEE TO PIPE	B-41
C-F-1		<0.375 Wall		6-HPSI-2001/08	PIPE TO VALVE	B-41
C-F-1		<0.375 Wall		6-HPSI-2001/09	VALVE TO PIPE	B-41
C-F-1		<0 375 Wall		6-HPSI-2001/10	PIPE TO ELBOW	B-41
C-F-1		<0.375 Wall		6-HPSI-2001/11	ELBOW TO REDUCER	B-41
C-F-1		<0.375 Wall		6-HPSI-2002/15	REDUCER TO PIPE	B-40
C-F-1		<0.375 Wall		6-HPSI-2002/16	PIPE TO ELBOW	B-40
C-F-1		<0.375 Wall		6-HPSI-2002/17	ELBOW TO VALVE	B-40
C-F-1		<0.375 Wall		6-HPSI-2002/18	VALVE TO PIPE	B-40
C-F-1		<0 375 Wall		6-HPSI-2002/19	PIPE TO ELBOW	B-40
C-F-1		<0 375 Wall		6-HPSI-2002/20	ELBOW TO REDUCER	B-40
C-F-1		<0 375 Wall		6-HPSI-2003/07	TEE TO PIPE	B-40
C-F-1		<0 375 Wall		6-HPSI-2003/07A	PIPE TO PIPE	B-40
C-F-1		<0 375 Wall		6-HPSI-2003/08	PIPE TO ELBOW	B-40
C-F-1		<0 375 Wall		6-HPSI-2003/09	ELBOW TO PIPE	B-40
C-F-1		<0 375 Wall		6-HPSI-2003/10	PIPE TO ELBOW	B-40
C-F-1		<0 375 Wall		6-HPSI-2003/11	ELBOW TO VALVE	B-40
C-F-1		<0 375 Wall		6-HPSI-2003/12	VALVE TO PIPE	B-40
C-F-1		<0 375 Wall		6-HPSI-2003/13	PIPE TO ELBOW	B-40
C-F-1		<0 375 Wall		6-HPSI-2003/14	ELBOW TO REDUCER	B-40
C-F-1		<0 375 Wall		6-LPH-2012/01	TEE TO PIPE	B-33
C-F-1		<0 375 Wall		6-LPH-2012/02	PIPE TO FLANGE	B-33
C-F-1		<0 375 Wall		6-LPH-2012/03	FLANGE TO PIPE	B-33
C-F-1		<0 375 Wall		6-LPH-2012/04	PIPE TO ELBOW	B-33
C-F-1		<0 375 Wall		6-LPH-2012/05	ELBOW TO PIPE	B-33
C-F-1		<0 375 Wall		6-LPH-2012/06	PIPE TO ELBOW	B-33
C-F-1		<0 375 Wall		6-LPH-2012/07	ELBOW TO REDUCER	B-33
C-F-1		<0 375 Wall		6-LPH-2014/01	REDUCER TO PIPE	B-34
C-F-1		<0 375 Wall		6-LPH-2014/02	PIPE TO ELBOW	B-34
C-F-1		<0 375 Wall		6-LPH-2014/03	ELBOW TO PIPE	B-34
C-F-1		<0 375 Wall		6-LPH-2014/04	PIPE TO ELBOW	B-34
C-F-1		<0 375 Wall		6-LPH-2014/05	ELBOW TO PIPE	B-34
C-F-1		<0 375 Wall		6-LPH-2014/06	PIPE TO ELBOW	B-34
C-F-1		<0 375 Wall		6-LPH-2014/07	ELBOW TO PIPE	B-34
C-F-1		<0 375 Wall		6-LPH-2014/08	PIPE TO ELBOW	B-34

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C-F-1		<0.375 Wall		6-LPH-2014/09	ELBOW TO PIPE	B-34
C-F-1		<0.375 Wall		6-LPH-2014/10	PIPE TO ELBOW	B-34
C-F-1		<0.375 Wall		6-LPH-2014/11	ELBOW TO PIPE	B-34
C-F-1		<0 375 Wall		6-LPH-2014/12	PIPE TO ELBOW	B-34
C-F-1		<0.375 Wall		6-LPH-2014/13	ELBOW TO PIPE	B-34
C-F-1		<0 375 Wall		6-LPH-2014/14	PIPE TO FLANGE	B-34
C-F-1		<0 375 Wall		6-LPH-2014/15	FLANGE TO PIPE	B-34
C-F-1		<0 375 Wall		6-LPH-2014/16	PIPE TO ELBOW	B-34
C-F-1		<0 375 Wall		6-LPH-2014/17	ELBOW TO REDUCER	B-34
C-F-1		<0.375 Wall		6-LPH-2022/01	REDUCER TO PIPE BEND	B-31
C-F-1		<0 375 Wall		6-LPH-2022/02	PIPE BEND TO FLANGE	B-31
C-F-1		<0 375 Wall		6-LPH-2022/03	FLANGE TO PIPE	B-31
C-F-1		<0 375 Wall		6-LPH-2022/03A	FLANGE TO PIPE	B-31
C-F-1		<0 375 Wall		6-LPH-2022/03B	ELBOW TO PIPE	B-31
C-F-1		<0 375 Wall		6-LPH-2022/03C	PIPE TO ELBOW	B-31
C-F-1		<0 375 Wall		6-LPH-2022/03D	ELBOW TO PIPE	B-31
C-F-1		<0 375 Wall		6-LPH-2022/04	PIPE TO ELBOW	B-31
C-F-1		<0.375 Wall		6-LPH-2022/05	ELBOW TO PIPE	B-31
C-F-1		<0.375 Wall		6-LPH-2022/06	PIPE TO ELBOW	B-31
C-F-1		<0.375 Wall		6-LPH-2022/07	ELBOW TO REDUCER	B-31
C-F-1		<0.375 Wall		6-LPH-2024/01	TEE TO PIPE	B-32
C-F-1		<0.375 Wall		6-LPH-2024/02	PIPE TO FLANGE	B-32
C-F-1		<0.375 Wall		6-LPH-2024/03	FLANGE TO PIPE	B-32
C-F-1		<0.375 Wall		6-LPH-2024/04	PIPE TO ELBOW	B-32
C-F-1		<0.375 Wall		6-LPH-2024/05	ELBOW TO ELBOW	B-32
C-F-1		<0 375 Wall		6-LPH-2024/06	ELBOW TO PIPE	B-32
C-F-1		<0 375 Wall		6-LPH-2024/07	PIPE TO REDUCER	B-32
C-F-1		<0 375 Wall		8-CSS-2001/01	FLANGE TO ELBOW	B-26
C-F-1		<0 375 Wall		8-CSS-2001/02	ELBOW TO PIPE	B-26
C-F-1		<0 375 Wall		8-CSS-2001/03	PIPE TO ELBOW	B-26
C-F-1		<0 375 Wall		8-CSS-2001/04	ELBOW TO PIPE	B-26
C-F-1	--	<0 375 Wall		8-CSS-2001/05	PIPE TO PIPE	B-26
C-F-1		<0 375 Wall		8-CSS-2001/06	PIPE TO VALVE	B-26
C-F-1		<0 375 Wall		8-CSS-2001/07	VALVE TO ELBOW	B-26
C-F-1		<0 375 Wall		8-CSS-2001/08	ELBOW TO PIPE	B-26
C-F-1		<0 375 Wall		8-CSS-2001/09	PIPE TO PIPE	B-26
C-F-1		<0 375 Wall		8-CSS-2001/10	PIPE TO WELDOLET	B-26
C-F-1		<0 375 Wall		8-CSS-2001/A1	FLANGE TO REDUCER (6")	B-26
C-F-1		<0 375 Wall		8-CSS-2001/A2	REDUCER TO PIPE	B-26
C-F-1		<0 375 Wall		8-CSS-2001/A3	PIPE TO FLANGE	B-26
C-F-1		<0 375 Wall		8-CSS-2002/01	FLANGE TO ELBOW	B-27
C-F-1		<0 375 Wall		8-CSS-2002/02	ELBOW TO ELBOW	B-27
C-F-1		<0 375 Wall		8-CSS-2002/03	ELBOW TO PIPE	B-27
C-F-1		<0 375 Wall		8-CSS-2002/03A	PIPE TO PIPE	B-27
C-F-1		<0 375 Wall		8-CSS-2002/04	PIPE TO ELBOW	B-27
C-F-1		<0 375 Wall		8-CSS-2002/05	PIPE TO VALVE	B-27
C-F-1		<0 375 Wall		8-CSS-2002/06	VALVE TO PIPE	B-27
C-F-1		<0.375 Wall		8-CSS-2002/07	PIPE TO PIPE	B-27
C-F-1		<0.375 Wall		8-CSS-2002/08	PIPE TO WELDOLET	B-27

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C-F-1		<0 375 Wall		8-CSS-2002/A1	FLANGE TO REDUCER (6")	B-27
C-F-1		<0 375 Wall		8-CSS-2002/A2	REDUCER TO PIPE	B-27
C-F-1		<0 375 Wall		8-CSS-2002/A3	PIPE TO FLANGE	B-27
C-F-1		<0 375 Wall		8-CSS-2003/01	FLANGE TO ELBOW	B-28
C-F-1		<0 375 Wall		8-CSS-2003/02	ELBOW TO PIPE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/03	PIPE TO VALVE	B-28
C-F-1		<0.375 Wall		8-CSS-2003/04	VALVE TO ELBOW	B-28
C-F-1		<0.375 Wall		8-CSS-2003/05	ELBOW TO PIPE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/06	PIPE TO ELBOW	B-28
C-F-1		<0 375 Wall		8-CSS-2003/07	ELBOW TO PIPE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/08	PIPE TO ELBOW	B-28
C-F-1		<0 375 Wall		8-CSS-2003/09	ELBOW TO PIPE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/10	PIPE TO ELBOW	B-28
C-F-1		<0 375 Wall		8-CSS-2003/11	ELBOW TO PIPE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/12	PIPE TO PIPE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/14	PIPE TO PIPE	B-28
C-F-1		<0.375 Wall		8-CSS-2003/15	PIPE TO ELBOW	B-28
C-F-1		<0.375 Wall		8-CSS-2003/16	ELBOW TO PIPE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/17	PIPE TO PIPE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/18	PIPE TO WELDOLET	B-28
C-F-1		<0 375 Wall		8-CSS-2003/A1	FLANGE TO RE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/A2	REDUCER TO PIPE	B-28
C-F-1		<0 375 Wall		8-CSS-2003/A3	PIPE TO FLANGE	B-28
C-F-1		<0 375 Wall		8-HPSI-2001/01	PIPE TO FLANGE	B-40
C-F-1		<0 375 Wall		8-HPSI-2001/01A	TEE TO PIPE	B-40
C-F-1		<0 375 Wall		8-HPSI-2001/02	FLANGE TO TEE	B-40
C-F-1		<0.375 Wall		8-HPSI-2001/02A	PIPE TO PIPE	B-40
C-F-1		<0.375 Wall		8-HPSI-2001/03	PIPE TO ELBOW	B-40
C-F-1		<0 375 Wall		8-HPSI-2001/04	ELBOW TO PIPE	B-40
C-F-1		<0 375 Wall		8-HPSI-2001/05	PIPE TO TEE	B-40
C-F-1		<0 375 Wall		8-HPSI-2001/06	TEE TO REDUCER	B-40
C-F-1		<0 375 Wall		8-LPSI-2001/01	FLANGE TO REDUCER (6")	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/02	REDUCER TO PIPE	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/03	PIPE TO FLANGE	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/04	FLANGE TO ELBOW	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/05	ELBOW TO PIPE	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/06	PIPE TO VALVE	B-29
C-F-1		<0.375 Wall		8-LPSI-2001/07	VALVE TO ELBOW	B-29
C-F-1		<0.375 Wall		8-LPSI-2001/08	ELBOW TO PIPE	B-29
C-F-1		<0.375 Wall		8-LPSI-2001/09	PIPE TO ELBOW	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/10	ELBOW TO PIPE	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/11	PIPE TO ELBOW	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/12	ELBOW TO PIPE	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/13	PIPE TO ELBOW	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/14	ELBOW TO PIPE	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/15	PIPE TO PIPE	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/17	PIPE TO PIPE	B-29
C-F-1		<0.375 Wall		8-LPSI-2001/18	PIPE TO ELBOW	B-29
C-F-1		<0 375 Wall		8-LPSI-2001/19	ELBOW TO PIPE	B-29

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C-F-1		<0.375 Wall		8-LPSI-2001/20	PIPE TO ELBOW	B-29
C-F-1		<0.375 Wall		8-LPSI-2001/21	ELBOW TO PIPE	B-29
C-F-1		<0.375 Wall		8-LPSI-2001/22	PIPE TO ELBOW	B-29
C-F-1		<0.375 Wall		8-LPSI-2001/23	ELBOW TO REDUCER	B-29
C-F-1		<0 375 Wall		8-LPSI-2002/01	FLANGE TO REDUCER (6")	B-30
C-F-1		<0.375 Wall		8-LPSI-2002/02	REDUCER TO PIPE	B-30
C-F-1		<0 375 Wall		8-LPSI-2002/03	PIPE TO FLANGE	B-30
C-F-1		<0 375 Wall		8-LPSI-2002/04	FLANGE TO ELBOW	B-30
C-F-1		<0 375 Wall		8-LPSI-2002/05	ELBOW TO VALVE	B-30
C-F-1		<0 375 Wall		8-LPSI-2002/06	VALVE TO PIPE	B-30
C-F-1		<0 375 Wall		8-LPSI-2002/07	PIPE TO ELBOW	B-30
C-F-1		<0 375 Wall		8-LPSI-2002/08	ELBOW TO PIPE	B-30
C-F-1		<0 375 Wall		8-LPSI-2002/09	PIPE TO ELBOW	B-30
C-F-1		<0 375 Wall		8-LPSI-2002/10	ELBOW TO PIPE	B-30
C-F-1		<0 375 Wall		8-LPSI-2002/11	PIPE TO REDUCER	B-30
C-F-2		C5.51		16-FW-2001/03	PIPE TO PIPE	B-07
C-F-2		C5.51		16-FW-2001/04	PIPE TO ELBOW	B-07
C-F-2		C5.51		16-FW-2001/05	ELBOW TO VALVE	B-07
C-F-2		C5.51		16-FW-2001/06	VALVE TO PIPE	B-07
C-F-2		C5 51		16-FW-2001/07	PIPE TO PIPE	B-07
C-F-2	1	C5 51		16-FW-2001/08	PIPE TO ELBOW	B-07
C-F-2	1	C5 51		16-FW-2001/09	ELBOW TO PIPE	B-07
C-F-2	1	C5 51		16-FW-2001/10	PIPE TO ELBOW	B-07
C-F-2	1	C5.51		16-FW-2001/11	ELBOW TO SAFE END	B-07
C-F-2	1	C5 51		16-FW-2001/12	SAFE END TO NOZZLE	B-07
C-F-2		C5 51		16-FW-2002/05	PIPE TO PIPE	B-08
C-F-2		C5 51		16-FW-2002/06	PIPE TO PIPE	B-08
C-F-2		C5.51		16-FW-2002/07	PIPE TO PIPE	B-08
C-F-2		C5 51		16-FW-2002/08	PIPE TO ELBOW	B-08
C-F-2		C5 51		16-FW-2002/09	ELBOW TO VALVE	B-08
C-F-2		C5 51		16-FW-2002/10	VALVE TO PIPE	B-08
C-F-2		C5 51		16-FW-2002/11	PIPE TO PIPE	B-08
C-F-2		C5 51		16-FW-2002/12	PIPE TO ELBOW	B-08
C-F-2	2	C5 51		16-FW-2002/13	ELBOW TO PIPE	B-08
C-F-2	2	C5 51		16-FW-2002/14	PIPE TO ELBOW	B-08
C-F-2	2	C5 51		16-FW-2002/15	ELBOW TO SAFE END	B-08
C-F-2	2	C5 51		16-FW-2002/16	SAFE END TO NOZZLE	B-08
C-F-2	3	C5 51		28-MS-2001/01	SAFE END TO ELBOW	B-03
C-F-2		C5 51		28-MS-2001/01A	NOZZLE TO SAFE END	B-03
C-F-2	3	C5 51		28-MS-2001/02	ELBOW TO PIPE	B-03
C-F-2	3	C5 51		28-MS-2001/03	PIPE TO ELBOW	B-03
C-F-2	3	C5 51		28-MS-2001/04	ELBOW TO PIPE	B-03
C-F-2		C5 51		28-MS-2001/05	PIPE TO ELBOW	B-03
C-F-2		C5 51		28-MS-2001/06	ELBOW TO PIPE	B-03
C-F-2		C5.51		28-MS-2001/07	PIPE TO ELBOW	B-03
C-F-2		C5.51		28-MS-2001/08	ELBOW TO PIPE	B-03
C-F-2		C5.51		28-MS-2001/09	PIPE TO ELBOW	B-03
C-F-2		C5.51		28-MS-2001/10	ELBOW TO PIPE	B-03
C-F-2		C5.51		28-MS-2001/11	PIPE TO ELBOW	B-03

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C-F-2	2	C5 51		28-MS-2002/01	SAFE END TO ELBOW	B-05
C-F-2	2	C5 51		28-MS-2002/01A	NOZZLE TO SAFE END	B-05
C-F-2	2	C5 51		28-MS-2002/02	ELBOW TO PIPE	B-05
C-F-2	2	C5.51		28-MS-2002/03	PIPE TO ELBOW	B-05
C-F-2	2	C5 51		28-MS-2002/04	ELBOW TO PIPE	B-05
C-F-2	2	C5 51		28-MS-2002/05	PIPE TO ELBOW	B-05
C-F-2	2	C5 51		28-MS-2002/06	ELBOW TO PIPE	B-05
C-F-2		C5 51		28-MS-2002/07	PIPE TO ELBOW	B-05
C-F-2		C5 51		28-MS-2002/08	ELBOW TO PIPE	B-05
C-F-2		C5 51		28-MS-2002/09	PIPE TO ELBOW	B-05
C-F-2		C5.51		28-MS-2002/10	ELBOW TO PIPE	B-05
C-F-2		C5.51		28-MS-2002/11	PIPE TO PIPE	B-05
C-F-2		C5.51		28-MS-2002/12	PIPE TO PIPE	B-06
C-F-2		C5.51		28-MS-2002/13	PIPE TO 45 ELBOW	B-06
C-F-2		C5.51		28-MS-2002/14	45 ELBOW TO PIPE BEND	B-06
C-F-2		C5.51		28-MS-2002/15	PIPE BEND TO PIPE	B-06
C-F-2		C5.51		28-MS-2002/16	PIPE TO VALVE	B-06
C-F-2		C5 51		6-MS-2001/01	SWEEPOLET TO PIPE	B-04
C-F-2		C5 51		6-MS-2001/02	PIPE TO FLANGE	B-04
C-F-2		C5 51		6-MS-2002/01	SWEEPOLET TO PIPE	B-04
C-F-2		C5 51		6-MS-2002/02	PIPE TO FLANGE	B-04
C-F-2		C5 51		6-MS-2003/01	SWEEPOLET TO PIPE	B-04
C-F-2	1	C5.51		6-MS-2003/02	PIPE TO FLANGE	B-04
C-F-2		C5 51		6-MS-2004/01	SWEEPOLET TO PIPE	B-04
C-F-2	1	C5 51		6-MS-2004/02	PIPE TO FLANGE	B-04
C-F-2		C5 51		6-MS-2005/01	SWEEPOLET TO PIPE	B-06
C-F-2	3	C5 51		6-MS-2005/02	PIPE TO FLANGE	B-06
C-F-2		C5 51		6-MS-2006/01	SWEEPOLET TO PIPE	B-06
C-F-2	3	C5 51		6-MS-2006/02	PIPE TO FLANGE	B-06
C-F-2		C5 51		6-MS-2007/01	SWEEPOLET TO PIPE	B-06
C-F-2		C5.51		6-MS-2007/02	PIPE TO FLANGE	B-06
C-F-2		C5.51		6-MS-2008/01	SWEEPOLET TO PIPE	B-06
C-F-2		C5.51		6-MS-2008/02	PIPE TO FLANGE	B-06
C-F-2		C5 60		3-AFW-3001/02	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/03	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/04	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/05	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/06	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/07	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/08	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/09	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/10	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/11	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/12	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/13	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/14	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/15	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/16	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/17	ELBOW TO PIPE	B-58

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C-F-2		C5 60		3-AFW-3001/18	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/19	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/20	PIPE TO VALVE	B-58
C-F-2		C5.60		3-AFW-3001/21	VALVE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/22	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/23	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/24	ELBOW TO PIPE	B-58
C-F-2		C5 60		3-AFW-3001/25	PIPE TO VALVE	B-58
C-F-2		C5.60		3-AFW-3001/26	VALVE TO ELBOW	B-58
C-F-2		C5.60		3-AFW-3001/27	ELBOW TO PIPE	B-58
C-F-2		C5.60		3-AFW-3001/28	PIPE TO ELBOW	B-58
C-F-2		C5 60		3-AFW-3001/29	ELBOW TO REDUCER (4")	B-58
C-F-2		C5 60		3-AFW-3001/30	REDUCER TO PIPE (4")	B-58
C-F-2		C5 60		3-AFW-3002/02	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/03	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/04	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/05	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/06	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/07	ELBOW TO PIPE	B-59
C-F-2		C5.60		3-AFW-3002/08	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/09	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/10	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/11	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/12	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/13	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/14	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/15	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/16	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/17	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/18	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/19	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/20	PIPE TO VALVE	B-59
C-F-2		C5 60		3-AFW-3002/21	VALVE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/22	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/23	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/24	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/25	PIPE TO VALVE	B-59
C-F-2		C5 60		3-AFW-3002/26	VALVE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/27	ELBOW TO PIPE	B-59
C-F-2		C5 60		3-AFW-3002/28	PIPE TO ELBOW	B-59
C-F-2		C5 60		3-AFW-3002/29	ELBOW TO REDUCER (4")	B-59
C-F-2		C5 60		3-AFW-3002/30	REDUCER TO PIPE (4")	B-59
C-F-2		<0 375 Wall		10-AC-2001/01	FLANGE TO REDUCER	B-50
C-F-2		<0 375 Wall		10-AC-2001/02	REDUCER TO PIPE	B-50
C-F-2		<0 375 Wall		10-AC-2001/03	PIPE TO TEE	B-50
C-F-2		<0 375 Wall		10-AC-2001/04	FLANGE TO PIPE (8")	B-50
C-F-2		<0 375 Wall		10-AC-2001/05	PIPE TO ELBOW (8")	B-50
C-F-2		<0 375 Wall		10-AC-2001/06	ELBOW TO PIPE	B-50
C-F-2		<0.375 Wall		10-AC-2001/07	PIPE TO TEE	B-50

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C-F-2	2	<0 375 Wall		10-AC-2001/08	TEE TO REDUCER	B-50
C-F-2		<0 375 Wall		10-AC-2001/09	REDUCER TO FLANGE (8")	B-50
C-F-2		<0 375 Wall		10-AC-2001/10	FLANGE TO ELBOW (8")	B-50
C-F-2		<0 375 Wall		10-AC-2001/11	ELBOW TO ELBOW	B-50
C-F-2		<0 375 Wall		10-AC-2001/12	ELBOW TO PIPE	B-50
C-F-2		<0 375 Wall		10-AC-2001/13	PIPE TO ELBOW	B-50
C-F-2		<0 375 Wall		10-AC-2001/14	ELBOW TO PIPE	B-50
C-F-2	2	<0 375 Wall		10-AC-2001/15	PIPE TO PIPE	B-50
C-F-2		<0 375 Wall		10-AC-2001/16	PIPE TO PIPE BEND	B-50
C-F-2		<0 375 Wall		10-AC-2001/17	PIPE BEND TO ELBOW	B-50
C-F-2		<0 375 Wall		10-AC-2001/18	ELBOW TO PIPE BEND	B-50
C-F-2		<0.375 Wall		10-AC-2001/19	PIPE BEND TO ELBOW	B-50
C-F-2		<0.375 Wall		10-AC-2001/20	ELBOW TO	B-50
C-F-2		<0.375 Wall		10-AC-2001/21	PIPE TO PIPE	B-50
C-F-2		<0.375 Wall		10-AC-2001/22	PIPE TO ELBOW	B-50
C-F-2		<0 375 Wall		10-AC-2001/23	ELBOW TO PIPE	B-50
C-F-2		<0 375 Wall		10-AC-2001/24	PIPE TO ELBOW	B-50
C-F-2		<0 375 Wall		10-AC-2001/25	ELBOW TO PIPE	B-50
C-F-2		<0 375 Wall		10-AC-2001/32	ELBOW TO PIPE	B-50
C-F-2		<0 375 Wall		10-AC-2001/33	PIPE TO ELBOW	B-50
C-F-2		<0 375 Wall		10-AC-2001/34	ELBOW TO PIPE	B-50
C-F-2		<0 375 Wall		10-AC-2001/35	PIPE TO PIPE	B-50
C-F-2		<0 375 Wall		10-AC-2001/36	PIPE TO TEE	B-50
C-F-2		<0 375 Wall		10-AC-2001/37	TEE TO REDUCER	B-50
C-F-2		<0 375 Wall		10-AC-2002/01	FLANGE TO REDUCER (8")	B-51
C-F-2		<0 375 Wall		10-AC-2002/02	REDUCER TO PIPE	B-51
C-F-2		<0 375 Wall		10-AC-2002/03	PIPE TO TEE	B-51
C-F-2		<0 375 Wall		10-AC-2002/04	FLANGE TO PIPE (8")	B-51
C-F-2		<0 375 Wall		10-AC-2002/05	PIPE TO ELBOW (8")	B-51
C-F-2		<0 375 Wall		10-AC-2002/06	ELBOW TO PIPE	B-51
C-F-2		<0 375 Wall		10-AC-2002/07	PIPE TO TEE	B-51
C-F-2		<0 375 Wall		10-AC-2002/08	TEE TO REDUCER	B-51
C-F-2		<0 375 Wall		10-AC-2002/09	REDUCER TO FLANGE (8")	B-51
C-F-2		<0 375 Wall		10-AC-2002/10	FLANGE TO RED FLANGE (8")	B-51
C-F-2	3	<0 375 Wall		10-AC-2002/11	ELBOW TO PIPE	B-51
C-F-2		<0 375 Wall		10-AC-2002/11A	PIPE TO PIPE	B-51
C-F-2		<0 375 Wall		10-AC-2002/12	PIPE TO PIPE	B-51
C-F-2		<0 375 Wall		10-AC-2002/13	PIPE TO ELBOW	B-51
C-F-2		<0 375 Wall		10-AC-2002/14	ELBOW TO PIPE	B-51
C-F-2	3	<0 375 Wall		10-AC-2002/15	PIPE TO ELBOW	B-51
C-F-2		<0 375 Wall		10-AC-2002/16	ELBOW TO PIPE	B-51
C-F-2		<0 375 Wall		10-AC-2002/17	PIPE TO PIPE	B-51
C-F-2		<0 375 Wall		10-AC-2002/18	PIPE TO PIPE	B-51
C-F-2	3	<0 375 Wall		10-AC-2002/19	PIPE TO ELBOW	B-51
C-F-2	3	<0 375 Wall		10-AC-2002/20	ELBOW TO PIPE	B-51
C-F-2		<0 375 Wall		10-AC-2002/21	PIPE TO ELBOW	B-51
C-F-2		<0.375 Wall		10-AC-2002/22	ELBOW TO PIPE	B-51
C-F-2		<0.375 Wall		10-AC-2002/23	PIPE TO ELBOW	B-51
C-F-2		<0.375 Wall		10-AC-2002/24	ELBOW TO PIPE BEND	B-51

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-F-2		<0 375 Wall		10-AC-2002/25	PIPE BEND TO ELBOW	B-51
C-F-2		<0 375 Wall		10-AC-2002/26	ELBOW T PIPE	B-51
C-F-2	3	<0 375 Wall		10-AC-2002/27	PIPE TO ELBOW	B-51
C-F-2		<0 375 Wall		10-AC-2002/28	ELBOW TO PIPE	B-51
C-F-2		<0 375 Wall		10-AC-2002/29	PIPE TO ELBOW	B-51
C-F-2		<0 375 Wall		10-AC-2002/30	ELBOW TO PIPE	B-51
C-F-2		<0.375 Wall		10-AC-2002/31	PIPE TO ELBOW	B-51
C-F-2		<0.375 Wall		10-AC-2002/32	ELBOW TO PIPE	B-51
C-F-2		<0.375 Wall		10-AC-2002/33	PIPE TO TEE	B-51
C-F-2		<0.375 Wall		10-AC-2002/34	TEE TO REDUCER	B-51
C-F-2		<0 375 Wall		10-AC-2003/01	REDUCER TO TEE	B-56
C-F-2		<0 375 Wall		10-AC-2003/02	TEE TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/03	PIPE TO ELBOW	B-56
C-F-2		<0 375 Wall		10-AC-2003/04	ELBOW TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/05	PIPE TO ELBOW	B-56
C-F-2		<0 375 Wall		10-AC-2003/06	ELBOW TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/07	PIPE TO ELBOW	B-56
C-F-2		<0.375 Wall		10-AC-2003/08	ELBOW TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/09	PIPE TO ELBOW	B-56
C-F-2		<0 375 Wall		10-AC-2003/10	ELBOW TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/11	PIPE TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/12	PIPE TO ELBOW	B-56
C-F-2		<0 375 Wall		10-AC-2003/13	ELBOW TO PIPE BEND	B-56
C-F-2		<0 375 Wall		10-AC-2003/14	PIPE BEND TO ELBOW	B-56
C-F-2		<0 375 Wall		10-AC-2003/15	ELBOW TO PIPE	B-56
C-F-2		<0.375 Wall		10-AC-2003/16	PIPE TO ELBOW	B-56
C-F-2		<0.375 Wall		10-AC-2003/17	ELBOW TO PIPE	B-56
C-F-2		<0.375 Wall		10-AC-2003/18	PIPE TO PIPE BEND	B-56
C-F-2		<0.375 Wall		10-AC-2003/19	PIPE BEND TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/20	PIPE TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/22	PIPE TO ELBOW	B-56
C-F-2	3	<0 375 Wall		10-AC-2003/23	ELBOW TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/24	PIPE TO ELBOW	B-56
C-F-2		<0 375 Wall		10-AC-2003/25	ELBOW TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/26	PIPE TO ELBOW	B-56
C-F-2		<0 375 Wall		10-AC-2003/27	ELBOW TO FLANGE (8")	B-56
C-F-2		<0 375 Wall		10-AC-2003/28	FLANGE TO PIPE (8")	B-56
C-F-2		<0 375 Wall		10-AC-2003/29	PIPE TO REDUCER (8")	B-56
C-F-2		<0 375 Wall		10-AC-2003/30	REDUCER TO TEE	B-56
C-F-2		<0 375 Wall		10-AC-2003/31	TEE TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/32	PIPE TO ELBOW	B-56
C-F-2		<0 375 Wall		10-AC-2003/33	ELBOW TO FLANGE (8")	B-56
C-F-2		<0 375 Wall		10-AC-2003/34	TEE TO PIPE	B-56
C-F-2		<0 375 Wall		10-AC-2003/35	PIPE TO REDUCER	B-56
C-F-2		<0 375 Wall		10-AC-2003/36	REDUCER TO FLANGE (8")	B-56
C-F-2		<0 375 Wall		10-AC-2004/01	REDUCER TO TEE	B-57
C-F-2		<0 375 Wall		10-AC-2004/02	TEE TO PIPE	B-57
C-F-2		<0.375 Wall		10-AC-2004/03	PIPE TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/04	PIPE TO ELBOW	B-57

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-F-2		<0 375 Wall		10-AC-2004/05	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/06	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		10-AC-2004/07	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/08	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		10-AC-2004/09	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/10	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		10-AC-2004/11	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/12	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		10-AC-2004/13	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/14	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/15	ELBOW TO PIPE	B-57
C-F-2		<0.375 Wall		10-AC-2004/16	PIPE TO ELBOW	B-57
C-F-2		<0.375 Wall		10-AC-2004/17	ELBOW TO PIPE	B-57
C-F-2		<0.375 Wall		10-AC-2004/18	PIPE TO ELBOW	B-57
C-F-2		<0.375 Wall		10-AC-2004/19	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		10-AC-2004/20	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		10-AC-2004/21	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/22	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		10-AC-2004/23	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/24	PIPE TO PIPE	B-57
C-F-2	3	<0 375 Wall		10-AC-2004/25	PIPE TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/26	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		10-AC-2004/27	ELBOW TO ELBOW	B-57
C-F-2		<0 375 Wall		10-AC-2004/28	ELBOW TO PIPE (8")	B-57
C-F-2		<0 375 Wall		10-AC-2004/29	PIPE TO FLANGE (8")	B-57
C-F-2		<0 375 Wall		10-AC-2004/30	FLANGE TO PIPE (8")	B-57
C-F-2		<0 375 Wall		10-AC-2004/31	PIPE TO REDUCER (8")	B-57
C-F-2		<0.375 Wall		10-AC-2004/32	REDUCER TO TEE	B-57
C-F-2		<0.375 Wall		10-AC-2004/33	TEE TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/34	PIPE TO ELBOW	B-57
C-F-2		<0.375 Wall		10-AC-2004/35	ELBOW TO FLANGE (8")	B-57
C-F-2		<0 375 Wall		10-AC-2004/36	TEE TO PIPE	B-57
C-F-2		<0 375 Wall		10-AC-2004/37	PIPE TO REDUCER	B-57
C-F-2		<0 375 Wall		10-AC-2004/38	REDUCER TO FLANGE (8")	B-57
C-F-2		<0 375 Wall		6-AC-2001/01	FLANGE TO PIPE	B-48
C-F-2		<0 375 Wall		6-AC-2001/03	PIPE TO ELBOW	B-48
C-F-2		<0 375 Wall		6-AC-2001/04	ELBOW TO PIPE	B-48
C-F-2		<0 375 Wall		6-AC-2001/05	PIPE TO ELBOW	B-48
C-F-2		<0 375 Wall		6-AC-2001/06	ELBOW TO ELBOW	B-48
C-F-2		<0 375 Wall		6-AC-2001/07	ELBOW TO PIPE	B-48
C-F-2		<0 375 Wall		6-AC-2001/08	PIPE TO PIPE	B-48
C-F-2		<0 375 Wall		6-AC-2001/09	PIPE TO PIPE BEND	B-48
C-F-2		<0 375 Wall		6-AC-2001/10	PIPE BEND TO ELBOW	B-48
C-F-2		<0 375 Wall		6-AC-2001/11	ELBOW TO PIPE BEND	B-48
C-F-2		<0 375 Wall		6-AC-2001/12	PIPE BEND TO ELBOW	B-48
C-F-2		<0 375 Wall		6-AC-2001/13	ELBOW TO PIPE	B-48
C-F-2		<0 375 Wall		6-AC-2001/14	PIPE TO ELBOW	B-48
C-F-2		<0.375 Wall		6-AC-2001/15	ELBOW TO FLANGE	B-48
C-F-2		<0.375 Wall		6-AC-2001/16	FLANGE TO PIPE	B-48

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-F-2		<0 375 Wall		6-AC-2001/17	PIPE TO TEE	B-48
C-F-2		<0.375 Wall		6-AC-2001/18	TEE TO PIPE	B-48
C-F-2		<0.375 Wall		6-AC-2001/19	PIPE TO REDUCING ELBOW	B-48
C-F-2		<0 375 Wall		6-AC-2002/01	REDUCER TO TEE	B-49
C-F-2		<0 375 Wall		6-AC-2002/02	TEE TO PIPE	B-49
C-F-2		<0 375 Wall		6-AC-2002/03	PIPE TO TEE	B-49
C-F-2		<0 375 Wall		6-AC-2002/04	REDUCER TO TEE	B-49
C-F-2		<0 375 Wall		6-AC-2002/05	TEE TO PIPE	B-49
C-F-2		<0 375 Wall		6-AC-2002/07	PIPE TO FLANGE	B-49
C-F-2		<0 375 Wall		6-AC-2002/09	FLANGE TO ELBOW	B-49
C-F-2		<0 375 Wall		6-AC-2002/10	ELBOW TO PIPE	B-49
C-F-2		<0 375 Wall		6-AC-2002/11	PIPE TO ELBOW	B-49
C-F-2		<0 375 Wall		6-AC-2002/12	ELBOW TO PIPE BEND	B-49
C-F-2		<0 375 Wall		6-AC-2002/13	PIPE BEND TO PIPE	B-49
C-F-2		<0 375 Wall		6-AC-2002/14	PIPE TO ELBOW	B-49
C-F-2		<0 375 Wall		6-AC-2002/15	ELBOW TO ELBOW	B-49
C-F-2		<0.375 Wall		6-AC-2002/16	ELBOW TO PIPE	B-49
C-F-2		<0.375 Wall		6-AC-2002/17	PIPE TO ELBOW	B-49
C-F-2		<0 375 Wall		6-AC-2002/19	ELBOW TO FLANGE	B-49
C-F-2		<0 375 Wall		6-AC-2003/01	TEE TO ELBOW	B-50A
C-F-2		<0 375 Wall		6-AC-2003/02	ELBOW TO PIPE	B-50A
C-F-2		<0 375 Wall		6-AC-2003/03	PIPE TO ELBOW	B-50A
C-F-2		<0 375 Wall		6-AC-2003/04	ELBOW TO PIPE	B-50A
C-F-2		<0 375 Wall		6-AC-2003/05	PIPE TO PIPE	B-50A
C-F-2		<0 375 Wall		6-AC-2004/01	REDUCER TO PIPE	B-50A
C-F-2		<0 375 Wall		6-AC-2004/02	PIPE TO ELBOW	B-50A
C-F-2		<0 375 Wall		6-AC-2004/03	ELBOW TO PIPE	B-50A
C-F-2		<0 375 Wall		6-AC-2004/04	PIPE TO ELBOW	B-50A
C-F-2		<0 375 Wall		6-AC-2004/05	ELBOW TO PIPE	B-50A
C-F-2		<0 375 Wall		6-AC-2004/06	PIPE TO ELBOW	B-50A
C-F-2		<0 375 Wall		6-AC-2004/07	ELBOW TO VALVE	B-50A
C-F-2		<0.375 Wall		6-AC-2005/01	TEE TO PIPE	B-51A
C-F-2		<0.375 Wall		6-AC-2005/02	ELBOW TO PIPE	B-51A
C-F-2		<0.375 Wall		6-AC-2005/03	PIPE TO ELBOW	B-51A
C-F-2		<0.375 Wall		6-AC-2005/04	ELBOW TO PIPE	B-51A
C-F-2		<0.375 Wall		6-AC-2005/05	PIPE TO ELBOW	B-51A
C-F-2		<0 375 Wall		6-AC-2005/06	ELBOW TO PIPE	B-51A
C-F-2		<0 375 Wall		6-AC-2006/01	REDUCER TO PIPE	B-51A
C-F-2		<0 375 Wall		6-AC-2006/02	PIPE TO ELBOW	B-51A
C-F-2		<0 375 Wall		6-AC-2006/03	ELBOW TO PIPE	B-51A
C-F-2		<0 375 Wall		6-AC-2006/04	PIPE TO PIPE	B-51A
C-F-2		<0 375 Wall		6-AC-2007/01	REDUCER TO PIPE	B-52
C-F-2		<0 375 Wall		6-AC-2008/38	REDUCER TO PIPE	B-53
C-F-2		<0 375 Wall		6-AC-2009/37	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		6-AC-2010/32	RED ELBOW TO PIPE	B-55
C-F-2		<0 375 Wall		6-AC-2011/45	TEE TO ELBOW	B-56
C-F-2		<0 375 Wall		6-AC-2011/46	ELBOW TO PIPE	B-56
C-F-2		<0 375 Wall		6-AC-2011/47	PIPE TO ELBOW	B-56
C-F-2		<0 375 Wall		6-AC-2011/48	ELBOW TO PIPE	B-56

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C-F-2		<0.375 Wall		6-AC-2011/49	PIPE TO PIPE	B-56
C-F-2		<0.375 Wall		6-AC-2011/50	PIPE TO PIPE	B-56
C-F-2		<0.375 Wall		6-AC-2012/41	PIPE TO PIPE	B-56
C-F-2		<0.375 Wall		6-AC-2012/42	PIPE TO ELBOW	B-56
C-F-2		<0.375 Wall		6-AC-2012/43	ELBOW TO PIPE	B-56
C-F-2		<0.375 Wall		6-AC-2012/44	PIPE TO REDUCER	B-56
C-F-2		<0.375 Wall		6-AC-2013/48	TEE TO ELBOW	B-57
C-F-2		<0 375 Wall		6-AC-2013/49	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		6-AC-2013/50	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		6-AC-2013/51	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		6-AC-2013/52	PIPE TO PIPE	B-57
C-F-2		<0 375 Wall		6-AC-2014/42	PIPE TO PIPE	B-57
C-F-2		<0 375 Wall		6-AC-2014/43	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		6-AC-2014/44	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		6-AC-2014/45	PIPE TO ELBOW	B-57
C-F-2		<0 375 Wall		6-AC-2014/46	ELBOW TO PIPE	B-57
C-F-2		<0 375 Wall		6-AC-2014/47	PIPE TO REDUCER	B-57
C-F-2		<0 375 Wall		8-AC-2001/01	FLANGE TO REDUCER (6")	B-52
C-F-2		<0 375 Wall		8-AC-2001/02	REDUCER TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/03	PIPE TO TEE	B-52
C-F-2		<0 375 Wall		8-AC-2001/04	FLANGE TO ELBOW (6")	B-52
C-F-2		<0 375 Wall		8-AC-2001/05	ELBOW TO PIPE	B-52
C-F-2		<0.375 Wall		8-AC-2001/06	PIPE TO TEE	B-52
C-F-2		<0.375 Wall		8-AC-2001/07	TEE TO PIPE	B-52
C-F-2		<0.375 Wall		8-AC-2001/08	PIPE TO REDUCER	B-52
C-F-2		<0.375 Wall		8-AC-2001/09	REDUCER TO FLANGE (6")	B-52
C-F-2		<0.375 Wall		8-AC-2001/10	FLANGE TO PIPE (6")	B-52
C-F-2		<0.375 Wall		8-AC-2001/10A	PIPE TO ELBOW (6")	B-52
C-F-2		<0.375 Wall		8-AC-2001/11	ELBOW TO ELBOW	B-52
C-F-2		<0 375 Wall		8-AC-2001/12	ELBOW TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/13	PIPE TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/14	PIPE TO PIPE BEND	B-52
C-F-2		<0 375 Wall		8-AC-2001/15	PIPE BEND TO ELBOW	B-52
C-F-2		<0 375 Wall		8-AC-2001/16	ELBOW TO PIPE BEND	B-52
C-F-2		<0 375 Wall		8-AC-2001/17	PIPE BEND TO ELBOW	B-52
C-F-2		<0 375 Wall		8-AC-2001/18	ELBOW TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/19	PIPE TO ELBOW	B-52
C-F-2		<0 375 Wall		8-AC-2001/20	ELBOW TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/21	PIPE TO ELBOW	B-52
C-F-2		<0 375 Wall		8-AC-2001/22	ELBOW TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/23	PIPE TO ELBOW	B-52
C-F-2		<0 375 Wall		8-AC-2001/24	ELBOW TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/25	PIPE TO ELBOW	B-52
C-F-2		<0 375 Wall		8-AC-2001/26	ELBOW TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/27	PIPE TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/28	PIPE TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/29	PIPE TO ELBOW	B-52
C-F-2		<0 375 Wall		8-AC-2001/30	ELBOW TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/31	PIPE TO ELBOW	B-52

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
C-F-2		<0 375 Wall		8-AC-2001/32	ELBOW TO PIPE	B-52
C-F-2		<0 375 Wall		8-AC-2001/33	PIPE TO ELBOW	B-52
C-F-2		<0 375 Wall		8-AC-2001/34	ELBOW TO REDUCER	B-52
C-F-2		<0 375 Wall		8-AC-2002/01	FLANGE TO REDUCER (6")	B-53
C-F-2		<0 375 Wall		8-AC-2002/02	REDUCER TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/03	PIPE TO TEE	B-53
C-F-2		<0 375 Wall		8-AC-2002/04	FLANGE TO ELBOW (6")	B-53
C-F-2		<0 375 Wall		8-AC-2002/05	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/06	PIPE TO TEE	B-53
C-F-2		<0 375 Wall		8-AC-2002/07	TEE TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/08	PIPE TO REDUCER	B-53
C-F-2		<0 375 Wall		8-AC-2002/09	REDUCER TO FLANGE (6")	B-53
C-F-2		<0 375 Wall		8-AC-2002/10	FLANGE TO ELBOW (6")	B-53
C-F-2		<0 375 Wall		8-AC-2002/11	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/12	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/13	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/14	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/15	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/16	PIPE TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/17	PIPE TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/18	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/19	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/20	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/21	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/22	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/23	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/24	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/25	ELBOW TO PIPE	B-53
C-F-2		<0.375 Wall		8-AC-2002/26	PIPE TO ELBOW	B-53
C-F-2		<0.375 Wall		8-AC-2002/27	ELBOW TO PIPE	B-53
C-F-2		<0.375 Wall		8-AC-2002/28	PIPE TO ELBOW	B-53
C-F-2		<0.375 Wall		8-AC-2002/29	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/30	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/31	ELBOW TO PIPE	B-53
C-F-2		<0.375 Wall		8-AC-2002/32	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/33	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/34	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/35	ELBOW TO PIPE	B-53
C-F-2		<0 375 Wall		8-AC-2002/36	PIPE TO ELBOW	B-53
C-F-2		<0 375 Wall		8-AC-2002/37	ELBOW TO REDUCER	B-53
C-F-2		<0 375 Wall		8-AC-2003/01	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/02	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/03	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/04	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/05	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/06	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/07	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/08	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/09	ELBOW TO PIPE	B-54

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C-F-2		<0.375 Wall		8-AC-2003/10	PIPE TO PIPE	B-54
C-F-2		<0.375 Wall		8-AC-2003/11	PIPE TO ELBOW	B-54
C-F-2		<0.375 Wall		8-AC-2003/12	ELBOW TO PIPE	B-54
C-F-2		<0.375 Wall		8-AC-2003/13	PIPE TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/14	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/15	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/16	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/17	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/18	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/19	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/20	PIPE TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/22	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/23	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/24	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/25	ELBOW TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/26	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/27	ELBOW TO FLANGE (6")	B-54
C-F-2		<0 375 Wall		8-AC-2003/28	FLANGE TO PIPE (6")	B-54
C-F-2		<0 375 Wall		8-AC-2003/29	PIPE TO REDUCER (6")	B-54
C-F-2		<0 375 Wall		8-AC-2003/30	REDUCER TO TEE	B-54
C-F-2		<0 375 Wall		8-AC-2003/31	TEE TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/32	PIPE TO ELBOW	B-54
C-F-2		<0 375 Wall		8-AC-2003/33	ELBOW TO FLANGE (6")	B-54
C-F-2		<0 375 Wall		8-AC-2003/34	TEE TO PIPE	B-54
C-F-2		<0 375 Wall		8-AC-2003/35	PIPE TO REDUCER	B-54
C-F-2		<0 375 Wall		8-AC-2003/36	REDUCER TO FLANGE (6")	B-54
C-F-2		<0.375 Wall		8-AC-2004/01	ELBOW TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/02	PIPE TO ELBOW	B-55
C-F-2		<0 375 Wall		8-AC-2004/03	ELBOW TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/04	PIPE TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/05	PIPE TO ELBOW	B-55
C-F-2		<0.375 Wall		8-AC-2004/06	ELBOW TO ELBOW	B-57
C-F-2		<0.375 Wall		8-AC-2004/07	ELBOW TO PIPE	B-55
C-F-2		<0.375 Wall		8-AC-2004/08	PIPE TO ELBOW	B-55
C-F-2		<0 375 Wall		8-AC-2004/09	ELBOW TO PIPE	B-55
C-F-2		<0.375 Wall		8-AC-2004/10	PIPE TO ELBOW	B-55
C-F-2		<0 375 Wall		8-AC-2004/11	ELBOW TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/12	PIPE TO ELBOW	B-55
C-F-2		<0 375 Wall		8-AC-2004/13	ELBOW TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/14	PIPE TO ELBOW	B-55
C-F-2		<0 375 Wall		8-AC-2004/15	ELBOW TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/16	PIPE TO ELBOW	B-55
C-F-2		<0 375 Wall		8-AC-2004/17	ELBOW TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/17A	PIPE TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/18	PIPE TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/19	PIPE TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/20	PIPE TO ELBOW	B-55
C-F-2		<0 375 Wall		8-AC-2004/21	ELBOW TO ELBOW	B-55
C-F-2		<0 375 Wall		8-AC-2004/22	ELBOW TO FLANGE (6")	B-55

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C-F-2		<0 375 Wall		8-AC-2004/23	FLANGE TO PIPE (6")	B-55
C-F-2		<0 375 Wall		8-AC-2004/24	PIPE TO REDUCER (6")	B-55
C-F-2		<0 375 Wall		8-AC-2004/25	REDUCER TO TEE	B-55
C-F-2		<0 375 Wall		8-AC-2004/26	TEE TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/27	PIPE TO ELBOW	B-55
C-F-2		<0 375 Wall		8-AC-2004/28	ELBOW TO FLANGE (6")	B-55
C-F-2		<0 375 Wall		8-AC-2004/29	TEE TO PIPE	B-55
C-F-2		<0 375 Wall		8-AC-2004/30	PIPE TO REDUCER	B-55
C-F-2		<0 375 Wall		8-AC-2004/31	REDUCER TO FLANGE (6")	B-55
C-G	3	C6.20		12-SDC-2020/HCV-347	VALVE BODY WELD (OUTLET)	B-11
F-A	1	F1.20	B	10-AC-2001/02-PR	3/4 BOX	B-50
F-A	3	F1.20	B	10-AC-2001/14-PR	PEDESTAL, U-BOLT	B-50
F-A		F1.20	A	10-AC-2001/16-PR-1	STRUT, 3-BOLT	B-50
F-A		F1.20	B	10-AC-2001/18-PR-1	FULL BOX	B-50
F-A		F1.20	A	10-AC-2001/18-PR-2	STRUT, 3-BOLT	B-50
F-A		F1.20	B	10-AC-2001/18-PR-3	DUAL STRUT, LUG	B-50
F-A		F1.20	C	10-AC-2001/18-PR-4	TRAPEZE, DUAL SPRING CAN	B-50
F-A	2	F1.20	A	10-AC-2001/18-PR-6	STRUT, 3-BOLT	B-50
F-A	2	F1 20	C	10-AC-2001/18-PR-7	SPRING CAN, TRAPEZE, T/B	B-50
F-A		F1 20	B	10-AC-2001/23-PR	GANG SUPP, U-BOLT	B-50
F-A	1	F1 20	A	10-AC-2001/32-PR	STRUT, 3-BOLT	B-50
F-A		F1 20	B	10-AC-2001/34-PR	GANG SUPPORT, BOX	B-50
F-A		F1 20	B	10-AC-2001/34-PR-1	GANG SUPPORT, BOX	B-50
F-A		F1 20	B	10-AC-2001/35-PR	GANG SUPPORT, U-BOLT	B-50
F-A		F1 20	B	10-AC-2002/02-PR	PEDESTAL, U-BOLT	B-51
F-A	1	F1 20	B	10-AC-2002/14-PR	PEDESTAL, U-BOLT	B-51
F-A		F1.20	B	10-AC-2002/16-PR	BOX	B-51
F-A		F1 20	A	10-AC-2002/21-PR	STRUT, 3-BOLT	B-51
F-A		F1.20	B	10-AC-2002/24-PR-1	ANGLE, U-BOLT	B-51
F-A		F1.20	B	10-AC-2002/24-PR-2	TRAPEZE, STRUT, U-BOLT	B-51
F-A		F1.20	A	10-AC-2002/24-PR-3	I-BEAM, 3-BOLT	B-51
F-A		F1 20	B	10-AC-2002/24-PR-4	BOX	B-51
F-A		F1.20	B	10-AC-2002/24-PR-5	I-BEAM, DUAL U-BOLT	B-51
F-A		F1.20	A	10-AC-2002/24-PR-6	STRUT, 3-BOLT	B-51
F-A		F1 20	B	10-AC-2002/28-PR	GANG SUPPORT, U-BOLT	B-51
F-A		F1.20	B	10-AC-2002/30-PR	BOX	B-51
F-A		F1 20	B	10-AC-2002/32-PR	GANG SUPPORT, BOX	B-51
F-A	3	F1 20	B	10-AC-2002/32-PR-1	GANG SUPPORT, BOX	B-51
F-A		F1.20	B	10-AC-2003/02-PR	GANG, BOX 4 PIPE	B-56
F-A		F1 20	B	10-AC-2003/03-PR	GANG, FULL BOX	B-56
F-A		F1 20	B	10-AC-2003/08-PR	PEDESTAL, 3/4 BOX	B-56
F-A		F1.20	C	10-AC-2003/13-PR	U-BOLT, 2-SPRING CAN	B-56
F-A		F1.20	C	10-AC-2003/13-PR-2	DUAL SPRING CAN, U-BOLT	B-56
F-A		F1.20	A	10-AC-2003/13-PR-3	TRAPEZE RODS	B-56
F-A		F1.20	C	10-AC-2003/15-PR	SPRING CAN, ROD & CLEVIS	B-56
F-A		F1.20	A	10-AC-2003/17-PR	ROD & CLEVIS	B-56
F-A		F1.20	B	10-AC-2003/28-PR	PEDESTAL, 3/4 BOX	B-56
F-A		F1.20	B	10-AC-2003/34-PR	PEDESTAL, U-BOLT	B-56
F-A		F1.20	A	10-AC-2003/34-PR-1	PLATE, 3-BOLT	B-56

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F-A		F1.20	B	10-AC-2004/02-PR	GANG, U-BOLT, 2-PIPES	B-57
F-A		F1.20	B	10-AC-2004/03-PR-1	GANG FULL BOX, 4-PIPES	B-57
F-A		F1.20	B	10-AC-2004/04-PR	GANG, FULL BOX, 2-PIPES	B-57
F-A		F1.20	B	10-AC-2004/05-PR	FULL BOX	B-57
F-A		F1.20	B	10-AC-2004/09-PR	FULL BOX	B-57
F-A		F1.20	B	10-AC-2004/09-PR-1	FULL BOX	B-57
F-A		F1.20	C	10-AC-2004/16-PR	SPRING CAN, ROD & CLEVIS	B-57
F-A		F1.20	A	10-AC-2004/17-PR-1	ROD & CLEVIS	B-57
F-A		F1.20	B	10-AC-2004/18-PR	FULL BOX	B-57
F-A		F1.20	B	10-AC-2004/18-PR-1	ANGLE, 1/2 BOX	B-57
F-A		F1.20	A	10-AC-2004/19-PR	STRUT, 3-BOLT	B-57
F-A		F1 20	B	10-AC-2004/30-PR	PEDESTAL, 3/4 BOX	B-57
F-A	3	F1.20	B	10-AC-2004/36-PR	PEDESTAL, U-BOLT	B-57
F-A	3	F1.20	A	10-AC-2004/36-PR-1	STRUT, U-BOLT	B-57
F-A		F1.20	B	10-LPH-2001/31-PR	LUGS/STRUT, 3-BOLT/GANG	B-23
F-A		F1 20	A	10-LPH-2001/31-PR-1	STRUT,3-BOLT	B-23
F-A		F1.20	A	10-LPH-2001/35-PR	ROD, 3-BOLT, TURNBUCKLE	B-23
F-A	1	F1 20	B	10-LPH-2001/39-PR	GANG BOX	B-23
F-A		F1.20	A	10-LPH-2001/39-PS	STRUT 3-BOLT	B-23
F-A		F1.20	A	10-LPSI-2001/09-PR	STRUT, 3-BOLT	B-24
F-A		F1 20	A	10-LPSI-2002/01-PR	ROD & CLEVIS	B-25
F-A	1	F1 20	B	10-LPSI-2002/03-PR-1	DUAL STRUT, 3-BOLT	B-25
F-A		F1 20	A	10-LPSI-2002/18-PR-2	ROD & CLEVIS	B-25
F-A		F1 20	A	10-LPSI-2002/22-PR	STRUT,3-BOLT	B-25
F-A		F1.20	A	10-LPSI-2002/28-PR-B	PEDESTAL,PLATE	B-25
F-A		F1 20	A	12-CSS-2001/11-PR-1	TRAPEZE U-BOLT, STRUT	B-19
F-A		F1.20	A	12-CSS-2001/12-PR	TRAPEZE	B-19
F-A		F1 20	B	12-CSS-2001/12-PR-1	FULL BOX	B-19
F-A		F1 20	A	12-CSS-2001/13-PR	ROD, TRAPEZE	B-19
F-A		F1.20	A	12-CSS-2001/14-PR-3	TRAPEZE GANG	B-19
F-A		F1 20	A	12-CSS-2001/14-PR-4	PED, I-BEAM	B-19
F-A		F1.20	A	12-CSS-2001/17-PR-2	TRAPAZE/ROD & CLEVIS	B-19
F-A		F1 20	A	12-CSS-2001/19-PR-2	ROD & CLEVIS	B-19
F-A		F1 20	B	12-CSS-2001/24-PR	RISER, LUGS	B-19
F-A		F1 20	B	12-CSS-2002/06-PR	RISER, LUGS	B-20
F-A		F1.20	A	12-CSS-2004/06-PR-1	STRUT, 3-BOLT	B-38
F-A		F1 20	A	12-CSS-2004/06-PR-2	RIGID SUPPORT	B-38
F-A		F1 20	C	12-CSS-2004/12-PR-1	SPRING CAN, TRAREZE	B-38
F-A		F1 20	A	12-CSS-2004/12-PR-3	STRUT, 3-BOLT	B-38
F-A	3	F1 20	C	12-CSS-2005/03-PR-1	SPRING CAN, 3-BOLT	B-38
F-A	3	F1 20	A	12-CSS-2005/03-PR-2	STRUT, 3-BOLT	B-38
F-A		F1 20	A	12-CSS-2011/02-PR-1A	STRUT, 3-BOLT	B-39
F-A		F1.20	C	12-CSS-2011/02-PR-2	SPRING CAN, ROD & CLEVIS	B-39
F-A		F1.20	C	12-CSS-2011/06-PR	SPRING CAN, COMPLEX	B-39
F-A	3	F1 20	A	12-CSS-2012/03-PR	STRUT, 3-BOLT	B-39
F-A		F1 20	C	12-CSS-2012/04-PR	SPRING CAN COMPLEX	B-39
F-A		F1 20	C	12-CSS-2013/02-PR	SPRING CAN, ROD & CLEVIS	B-39
F-A		F1 20	C	12-CSS-2013/05-PR	SPRING CAN, COMPLEX	B-39
F-A		F1.20	A	12-LPH-2001/03-PR-1	STRUT,3-BOLT	B-16

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F-A	3	F1.20	A	12-LPH-2001/16-PR	STRUT, 3-BOLT T/B	B-16
F-A	2	F1.20	A	12-LPH-2001/25-PR	STRUT, 3-BOLT, U-BOLT	B-16
F-A		F1.20	B	12-LPH-2001/25-PR-1	GANG WELDED	B-16
F-A		F1.20	A	12-LPH-2001/26-PR-1	ROD 3-BOLT T/B	B-16
F-A		F1.20	C	12-LPSI-2002/01-PR-3	SPRING CAN	B-17
F-A	1	F1.20	A	12-LPSI-2002/08-PR	ROD & CLEVIS	B-17
F-A		F1.20	A	12-LPSI-2002/11-PR	ROD & CLEVIS	B-17
F-A		F1 20	B	12-LPSI-2002/12-PR	SIDE PED, U-BOLT	B-17
F-A		F1.20	A	12-LPSI-2002/13-PR	TRAPEZE	B-17
F-A	2	F1.20	A	12-LPSI-2002/13-PR-2	ROD & CLEVIS	B-17
F-A		F1 20	A	12-LPSI-2002/16-PR	ROD & CLEVIS	B-17
F-A		F1.20	A	12-LPSI-2002/16-PR-1	ROD & CLEVIS	B-17
F-A		F1.20	A	12-LPSI-2003/02-PR-1	ROD & CLEVIS	B-18
F-A		F1 20	A	12-LPSI-2003/02-PR-2	ROD & CLEVIS	B-18
F-A		F1.20	A	12-LPSI-2003/14-PR-1	STRUT, 3-BOLT T/B	B-18
F-A		F1.20	A	12-LPSI-2003/14-PR-2	ROD & CLEVIS	B-18
F-A		F1.20	A	12-LPSI-2003/15-PR-1	TRAPEZE	B-18
F-A		F1.20	A	12-LPSI-2003/17-PR-1A	STRUT, 3-BOLT	B-18
F-A		F1.20	A	12-LPSI-2003/17-PR-3	TRAPEZE 3/4 BOX, GANG	B-18
F-A	1	F1.20	A	12-LPSI-2003/17-PR-4	PED, I-BEAM	B-18
F-A	3	F1.20	A	12-LPSI-2003/21-PR-1	ROD & CLEVIS	B-18
F-A		F1 20	A	12-LPSI-2003/23-PR-2	TRAPEZE	B-18
F-A		F1.20	A	12-LPSI-2003/23-PR-A1	1/2 BOX	B-18
F-A		F1 20	B	12-LPSI-2003/28-PR	RISER, LUGS	B-18
F-A		F1 20	B	12-SDC-2001/08-PR	RISER, LUGS	B-21
F-A		F1 20	A	12-SDC-2001/13-PR	ROD, 3-BOLT, TURNBUCKLE	B-21
F-A		F1.20	A	12-SDC-2001/17-PR-1	ROD & CLEVIS	B-21
F-A	1	F1.20	B	12-SDC-2001/17-PR-2	STRUT, 3-BOLT, T/B	B-21
F-A		F1.20	A	12-SDC-2001/19-PR-2	TRAPEZE	B-21
F-A		F1 20	A	12-SDC-2001/24-PR-3	PLATE, 3-BOLT, LUGS	B-21
F-A		F1 20	B	12-SDC-2002/08-PR	RISER, LUGS	B-22
F-A		F1 20	A	12-SDC-2002/14-PR-1	STRUT, 3-BOLT	B-22
F-A		F1 20	A	12-SDC-2002/18-PR-1	STRUT, 3-BOLT	B-22
F-A	1	F1.20	A	12-SDC-2002/21-PR-1	ROD & CLEVIS	B-22
F-A		F1.20	B	12-SDC-2002/23-PR-2	DUAL STRUT, 3-BOLT	B-22
F-A		F1.20	B	12-SDC-2002/26-PR-2	PED, U-BOLT	B-22
F-A		F1.20	A	12-SDC-2003/09A-PR-1	U-BOLT, ROD & CLEVIS	B-22A
F-A		F1 20	A	12-SDC-2003/09B-PR	STRUT, 3-BOLT	B-22A
F-A		F1.20	A	12-SDC-2003/11-PR-2	ROD & CLEVIS	B-22A
F-A		F1.20	A	12-SDC-2003/14-PR-3	STRUT, U-BOLT	B-22A
F-A		F1 20	A	12-SDC-2003/15-PR-1	TRAPEZE, U-BOLT	B-22A
F-A		F1.20	B	12-SDC-2003/15-PR-2	FULL BOX	B-22A
F-A	2	F1 20	A	12-SDC-2020/12-PR	ROD & CLEVIS	B-11
F-A		F1 20	A	12-SDC-2020/16-PR-1	ROD & CLEVIS	B-11
F-A		F1.20	A	12-SDC-2020/16-PR-5	ROD & CLEVIS	B-11
F-A		F1.20	A	14-LPSI-2001/A4-PR	STRUT,3-BOLT	B-09
F-A		F1.20	A	14-LPSI-2001/A4-PR-1	STRUT,3-BOLT	B-10
F-A		F1.20	C	14-LPSI-2001/A5-PR	SPRING CAN, COMPLEX	B-09
F-A		F1 20	C	14-LPSI-2002/A5-PR	SPRING CAN, COMPLEX	B-10

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F-A		F1.20	C	16-FW-2001/03-PR-1	SPRING CAN	B-07
F-A		F1.20	C	16-FW-2001/06-PR-A1	CONSTANT LOAD	B-07
F-A	1	F1.20	C	16-FW-2001/07-PR	SPRING CAN	B-07
F-A		F1 20	C	16-FW-2002/07-PR-1	SPRING CAN	B-08
F-A		F1.20	C	16-FW-2002/10-PR	CONSTANT LOAD	B-08
F-A		F1.20	B	16-FW-2002/11-PR	PEDESTAL, U-BOLT	B-08
F-A		F1.20	B	2-CH-11/01-PR	ANGLE, U-BOLT	B-61
F-A		F1.20	B	2-CH-11/03-PR	ANGLE, U-BOLT	B-61
F-A		F1.20	B	2-CH-11/05-PR	ANGLE, U-BOLT	B-61
F-A		F1.20	A	2-CH-11/09-PR	ROD & CLEVIS	B-61
F-A		F1 20	A	2-CH-11/09-PR-1	ROD & CLEVIS	B-61
F-A		F1 20	B	2-CH-11/13-PR	ANGLE, U-BOLT	B-61
F-A		F1.20	B	2-CH-12/01-PR	ANGLE, U-BOLT	B-62
F-A		F1.20	B	2-CH-12/01-PR-1	ANGLE, U-BOLT	B-62
F-A		F1 20	B	2-CH-12/03-PR	ANGLE, U-BOLT	B-62
F-A		F1.20	B	2-CH-12/03-PR-1	ANGLE, U-BOLT	B-62
F-A		F1 20	B	2-CH-12/05-PR	ANGLE, U-BOLT	B-62
F-A		F1.20	B	2-CH-12/05-PR-1	ANGLE, U-BOLT	B-62
F-A		F1.20	B	2-CH-12/09-PR	ANGLE, U-BOLT	B-62
F-A		F1.20	B	2-CH-12/09-PR-1	ANGLE, U-BOLT	B-62
F-A		F1.20	B	2-CH-12/14-PR	I-BEAM, DUAL U-BOLT	B-62
F-A		F1 20	A	2-CH-13/05-PR	1/2 BOX	B-63
F-A		F1.20	B	2-CH-13/15-PR	ANGLE, U-BOLT	B-63
F-A		F1 20	B	2-CH-13/19-PR	ANGLE, U-BOLT	B-63
F-A		F1 20	B	2-CH-13/23-PR	ANGLE, U-BOLT	B-63
F-A		F1.20	B	2-CH-13/33-PR	ANGLE, U-BOLT	B-63
F-A		F1.20	B	2-CH-13/33-PR-1	ANGLE, U-BOLT	B-63
F-A		F1.20	B	2-CH-13/38-PR	I-BEAM, DUAL U-BOLT	B-63
F-A		F1.20	B	2-CH-14/05-PR	ANGLE, U-BOLT	B-64
F-A		F1.20	B	2-CH-14/07-PR	ANGLE, U-BOLT	B-64
F-A		F1 20	B	2-CH-14/07-PR-1	ANGLE, U-BOLT	B-64
F-A		F1.20	B	2-CH-14/11-PR	ANGLE, U-BOLT	B-64
F-A		F1 20	B	2-CH-14/13-PR	ANGLE, U-BOLT	B-64
F-A	2	F1 20	B	2-CH-14/19-PR	ANGLE, U-BOLT	B-64
F-A	2	F1 20	B	2-CH-14/19-PR-1	ANGLE, U-BOLT	B-64
F-A		F1.20	B	2-CH-14/25-PR	ANGLE, U-BOLT	B-64
F-A	1	F1.20	B	2-CH-15/14-PR	PEDESTAL, 1/2 BOX	B-65
F-A		F1.20	B	2-CH-16/01-PR	ANGLE, U-BOLT	B-66
F-A		F1 20	A	2-CH-17/01-PR	ROD & CLEVIS	B-67
F-A		F1 20	B	2-CH-17/01-PR-1	ANGLE, U-BOLT	B-67
F-A		F1.20	A	2-CH-17/03-PR	ROD & CLEVIS	B-67
F-A		F1 20	B	2-CH-17/03-PR-1	ANGLE, U-BOLT	B-67
F-A		F1 20	A	2-CH-17/05-PR	ROD & CLEVIS	B-67
F-A		F1.20	B	2-CH-17/05-PR-1	ANGLE, U-BOLT	B-67
F-A		F1 20	A	2-CH-17/05-PR-2	ROD & CLEVIS	B-67
F-A		F1.20	B	2-CH-17/07-PR	ANGLE, U-BOLT	B-67
F-A		F1 20	A	2-CH-17/09-PR	ROD & CLEVIS	B-67
F-A		F1.20	B	2-CH-17/13-PR	ANGLE, U-BOLT	B-67
F-A		F1.20	B	2-CH-17/13-PR-1	ANGLE, U-BOLT	B-68

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F-A		F1.20	A	2-CH-17/13-PR-2	ROD, 3-BOLT	B-67
F-A		F1.20	B	2-CH-18/02-PR	ANGLE, U-BOLT	B-68
F-A		F1.20	A	2-CH-18/09-PR	ROD & CLEVIS	B-68
F-A		F1.20	B	2-CH-18/11-PR	ANGLE, U-BOLT	B-68
F-A		F1.20	A	2-CH-18/11-PR-1	ROD & CLEVIS	B-68
F-A		F1.20	B	2-CH-18/11-PR-2	ANGLE, U-BOLT	B-68
F-A		F1.20	B	2-CH-18/15-PR	ANGLE, U-BOLT	B-68
F-A		F1.20	B	2-CH-18/17-PR	ANGLE, U-BOLT	B-68
F-A		F1.20	B	2-CH-18/19-PR	ANGLE, U-BOLT	B-68
F-A		F1.20	B	2-CH-18/27-PR	ANGLE, U-BOLT	B-68
F-A		F1.20	B	2-CH-18/31-PR	ANGLE, U-BOLT	B-68
F-A		F1.20	B	2-CH-18/33-PR	ANGLE, U-BOLT	B-68
F-A		F1.20	B	2-CH-19/02-PR	ANGLE, U-BOLT	B-69
F-A		F1.20	B	2-CH-19/09-PR	ANGLE, U-BOLT	B-69
F-A		F1.20	A	2-CH-19/09-PR-1	ROD & CLEVIS	B-69
F-A		F1.20	A	2-CH-19/09-PR-2	ROD & CLEVIS	B-69
F-A		F1.20	B	2-CH-19/13-PR	ANGLE, U-BOLT	B-69
F-A		F1.20	B	2-CH-19/13-PR-1	ANGLE, U-BOLT	B-69
F-A		F1.20	B	2-CH-19/15-PR	ANGLE, U-BOLT	B-69
F-A		F1.20	B	2-CH-19/21-PR	ANGLE, U-BOLT	B-69
F-A		F1.20	B	2-CH-20/03-PR	ANGLE, U-BOLT	B-70
F-A		F1.20	B	2-CH-20/03-PR-1	ANGLE, U-BOLT	B-70
F-A		F1.20	B	2-CH-20/07-PR	ANGLE, U-BOLT	B-70
F-A		F1.20	B	2-CH-20/09-PR	ANGLE, U-BOLT	B-70
F-A		F1.20	B	2-CH-20/11-PR	ANGLE, U-BOLT	B-70
F-A		F1.20	B	2-CH-20/13-PR	ANGLE, U-BOLT	B-70
F-A		F1.20	B	2-CH-21/02-PR	ANGLE, U-BOLT	B-71
F-A		F1.20	B	2-CH-21/07-PR	ANGLE, U-BOLT	B-71
F-A		F1.20	B	2-CH-21/09-PR	ANGLE, U-BOLT	B-71
F-A		F1.20	A	2-CH-21/09-PR-1	ROD & CLEVIS	B-71
F-A		F1.20	B	2-CH-21/09-PR-2	ANGLE, U-BOLT	B-71
F-A		F1.20	A	2-CH-21/09-PR-3	ROD & CLEVIS	B-71
F-A		F1.20	A	2-CH-21/11-PR	ROD & CLEVIS	B-71
F-A		F1.20	B	2-CH-21/13-PR	ANGLE, U-BOLT	B-71
F-A		F1.20	B	2-CH-21/15-PR	ANGLE, U-BOLT	B-71
F-A		F1.20	B	2-CH-21/21-PR	ANGLE, U-BOLT	B-71
F-A		F1.20	B	2-CH-21/23-PR	ANGLE, U-BOLT	B-71
F-A		F1.20	B	2-CH-22/01-PR	ANGLE, U-BOLT	B-72
F-A		F1.20	B	2-CH-22/01-PR-1	ANGLE, U-BOLT	B-72
F-A		F1 20	A	2-CH-22/01-PR-2	ROD, U-BOLT	B-72
F-A		F1 20	A	2-CH-22/17-PR	ROD & CLEVIS	B-72
F-A		F1 20	B	2-CH-22/17-PR-1	ANGLE, U-BOLT	B-72
F-A		F1.20	B	2-CH-22/19-PR	ANGLE, U-BOLT	B-72
F-A	3	F1.20	A	2-CH-22/21-PR	ROD & CLEVIS	B-72
F-A	3	F1.20	B	2-CH-22/23-PR	ANGLE, U-BOLT	B-72
F-A	1	F1.20	B	2-CH-22/28-PR	ANGLE, DUAL U-BOLT	B-72
F-A	3	F1.20	B	2-CH-22/32-PR	I-BEAM, DUAL U-BOLT	B-72
F-A		F1.20	B	2-CH-24/09-PR	DUAL FULL BOX	B-77
F-A	1	F1.20	B	2-CH-25/01-PR	ANGLE, U-BOLT	B-78

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F-A	1	F1.20	B	2-CH-25/01-PR-1	ANGLE, U-BOLT	B-78
F-A	1	F1.20	B	2-CH-25/07-PR	ANGLE, U-BOLT	B-78
F-A		F1.20	B	2-CH-25/11-PR	PEDESTAL, DUAL U-BOLT	B-78
F-A		F1.20	A	2-CH-26/03-PR	ROD & CLEVIS	B-79
F-A		F1.20	A	2-CH-26/03-PR-1	ROD & CLEVIS	B-79
F-A	1	F1 20	A	2-CH-26/07-PR-1	ROD & CLEVIS	B-79
F-A	3	F1.20	B	2-CH-26/07-PR-3	ANGLE, U-BOLT	B-79
F-A		F1.20	A	2-CH-26/09-PR	ROD & CLEVIS	B-79
F-A		F1 20	A	2-CH-26/09-PR-1	ROD & CLEVIS	B-79
F-A		F1 20	B	2-CH-26/11-PR	ANGLE, U-BOLT	B-79
F-A	2	F1.20	A	2-CH-26/11-PR-1	ROD & CLEVIS	B-79
F-A		F1.20	B	2-CH-26/11-PR-2	ANGLE, U-BOLT	B-79
F-A	2	F1.20	B	2-CH-26/15-PR	ANGLE, U-BOLT	B-79
F-A	2	F1.20	B	2-CH-26/15-PR-1	PEDESTAL, U-BOLT	B-79
F-A		F1.20	B	2-CH-26/19-PR	DUAL BOX	B-79
F-A		F1 20	B	2-CH-27/07-PR	DUAL BOX	B-80
F-A		F1.20	B	2-CH-27/11-PR	PEDESTAL, U-BOLT	B-80
F-A		F1.20	B	2-CH-28/07-PR	I-BEAM, DUAL U-BOLT	B-82
F-A		F1.20	B	2-CH-28/09-PR	PEDESTAL, U-BOLT	B-82
F-A		F1.20	B	2-CH-29/01-PR	BOX	B-83
F-A		F1.20	B	2-CH-29/03-PR	ANGLE, U-BOLT	B-83
F-A		F1 20	B	2-CH-29/15-PR	PEDESTAL, DUAL U-BOLT	B-83
F-A		F1.20	A	2-CH-30/09-PR	ROD & CLEVIS	B-84
F-A		F1.20	A	2-CH-30/09-PR-1	ROD & CLEVIS	B-84
F-A		F1 20	B	2-CH-30/11-PR	ANGLE, U-BOLT	B-84
F-A		F1.20	A	2-CH-30/11-PR-1	ROD & CLEVIS	B-84
F-A		F1 20	A	2-CH-30/11-PR-2	ROD & CLEVIS	B-84
F-A		F1.20	B	2-CH-30/15-PR	ANGLE, U-BOLT	B-84
F-A		F1.20	B	2-CH-30/19-PR	ANGLE, U-BOLT	B-84
F-A		F1.20	B	2-CH-30/21-PR	PEDESTAL, DUAL U-BOLT	B-84
F-A		F1.20	B	2-CH-31/08-PR	I-BEAM, DUAL U-BOLT	B-85
F-A		F1.20	B	2 5-CH-11/01-PR	FULL BOX	B-66
F-A		F1.20	A	2 5-CH-11/01-PR-1	1/2 BOX	B-66
F-A		F1.20	B	2 5-CH-11/03-PR	FULL BOX	B-66
F-A		F1.20	A	20-SI-2001/05-PR	ROD & CLEVIS	B-36
F-A		F1.20	A	20-SI-2001/06-PR	STRUT, 3-BOLT	B-36
F-A	1	F1.20	A	24-SI-2001/06-PR-1	STRUT, 3-BOLT	B-36
F-A		F1.20	A	24-SI-2001/06-PR-3	STRUT, 3-BOLT	B-36
F-A		F1.20	A	24-SI-2001/13-PR	STRUT, 3-BOLT	B-36
F-A		F1.20	A	24-SI-2001/15-PR	STRUT, 3-BOLT	B-36
F-A		F1.20	A	24-SI-2002/01A-PR	STRUT, 3-BOLT	B-37
F-A		F1.20	A	24-SI-2002/04A-PR	STRUT, 3-BOLT	B-37
F-A		F1 20	A	24-SI-2002/07-PR	TRAPEZE, U-BOLT	B-37
F-A		F1 20	A	24-SI-2002/08-PR-1	TRAPEZE, U-BOLT	B-37
F-A	2	F1 20	A	24-SI-2002/12-PR	STRUT, 3-BOLT	B-37
F-A		F1 20	A	24-SI-2002/16-PR-A	STRUT, 3-BOLT	B-37
F-A	2	F1 20	A	24-SI-2002/17-PR-1	STRUT, 3-BOLT	B-37
F-A		F1.20	C	28-MS-2001/06-PR-1	CONSTANT LOAD	B-03
F-A		F1 20	C	28-MS-2001/08-PR-2	CONSTANT LOAD	B-03

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F-A		F1 20	C	28-MS-2001/10-PR-1	SPRING CAN	B-03
F-A	2	F1.20	C	28-MS-2002/06-PR-1	CONSTANT LOAD	B-05
F-A		F1.20	C	28-MS-2002/08-PR-2	CONSTANT LOAD	B-05
F-A		F1 20	C	28-MS-2002/10-PR-1	SPRING CAN	B-05
F-A		F1.20	B	3-AFW-3001/07-PR	FULL BOX RESTRAINT	B-58
F-A		F1.20	A	3-AFW-3001/07-PR-1	ROD & CLEVIS	B-58
F-A		F1.20	A	3-AFW-3001/11-PR	ROD & ANGLE IRON	B-58
F-A		F1.20	B	3-AFW-3001/11-PR-1	ANGLE IRON & U-BOLT	B-58
F-A		F1 20	A	3-AFW-3001/13-PR	ROD & CLEVIS	B-58
F-A		F1.20	B	3-AFW-3001/13-PR-1	ANGLE IRON & U-BOLT	B-58
F-A		F1 20	A	3-AFW-3001/15-PR	ROD & ANGLE IRON	B-58
F-A		F1.20	A	3-AFW-3001/15-PR-1	DUAL ANGLE IRON	B-58
F-A		F1 20	B	3-AFW-3001/15-PR-2	3/4 BOX RESTRAINT	B-58
F-A		F1 20	B	3-AFW-3001/19-PR	3/4 BOX RESTRAINT	B-58
F-A		F1 20	B	3-AFW-3001/22-PR	FULL BOX RESTRAINT	B-58
F-A		F1 20	B	3-AFW-3002/07-PR	ANGLE IRON & U-BOLT	B-59
F-A		F1 20	A	3-AFW-3002/07-PR-1	ROD & CLEVIS	B-59
F-A		F1 20	A	3-AFW-3002/11-PR	ROD & CLEVIS	B-59
F-A		F1.20	B	3-AFW-3002/11-PR-1	ANGLE IRON & U-BOLT	B-59
F-A		F1.20	B	3-AFW-3002/13-PR	ANGLE IRON & U-BOLT	B-59
F-A		F1.20	A	3-AFW-3002/13-PR-1	STRUT & 3-BOLT CLAMP	B-59
F-A		F1.20	A	3-AFW-3002/15-PR	ROD & ANGLE IRON	B-59
F-A		F1 20	B	3-AFW-3002/15-PR-1	ANGLE IRON & U-BOLT	B-59
F-A		F1 20	B	3-AFW-3002/19-PR	3/4 BOX RESTRAINT	B-59
F-A		F1.20	B	3-AFW-3002/22-PR	FULL BOX RESTRAINT	B-59
F-A		F1.20	A	4-CH-10/02-PR	ROD, 3-BOLT	B-73
F-A	1	F1 20	A	4-CH-10/02-PR-1	I-BEAM	B-73
F-A		F1 20	A	4-CH-10/04-PR-1	BOX	B-73
F-A		F1 20	A	4-CH-10/04-PR-2	ROD, 3-BOLT	B-73
F-A		F1.20	A	4-CH-10/04-PR-3	STRUT, 3-BOLT	B-73
F-A		F1 20	A	4-CH-10/05-PR-1	I-BEAM	B-73
F-A	2	F1 20	B	4-CH-10/05-PR-2	FULL BOX	B-73
F-A		F1 20	A	4-CH-10/05-PR-4	ROD, ANGLE	B-73
F-A		F1 20	A	4-CH-10/07-PR	ROD & CLEVIS	B-73
F-A		F1 20	A	4-CH-10/07-PR-1	ROD & CLEVIS	B-73
F-A	3	F1.20	A	4-CH-10/15-PR	DUAL PEDESTAL, 3/4 BOX	B-73
F-A		F1 20	B	4-CH-11/02-PR	TRUNNION	B-74
F-A		F1 20	C	4-CH-11/06-PR	SPRING CAN, COMPLEX	B-74
F-A		F1.20	C	4-CH-11/10-PR	SPRING CAN, SNUBBER	B-74
F-A	1	F1.20	A	4-CH-11/11-PR	STRUT, 3-BOLT	B-74
F-A		F1.20	A	4-CH-11/14-PR	STRUT, 3-BOLT	B-74
F-A		F1.20	A	4-CH-11/16-PR	STRUT, 3-BOLT	B-74
F-A		F1.20	B	4-CH-11/18-PR	TRUNNION	B-74
F-A	2	F1.20	C	4-CH-11/22-PR	SPRING CAN, COMPLEX	B-74
F-A		F1.20	C	4-CH-11/27-PR	SPRING CAN, SNUBBER	B-74
F-A		F1.20	A	4-CH-11/28-PR	STRUT, 3-BOLT	B-74
F-A	2	F1 20	A	4-CH-11/28-PR-2	STRUT, 3-BOLT	B-74
F-A		F1 20	B	4-CH-11/30-PR	I-BEAM, 3/4 BOX	B-74
F-A	2	F1.20	B	4-CH-11/30-PR-1	FULL BOX	B-74

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F-A		F1.20	A	4-CH-11/32-PR	ROD & CLEVIS	B-74
F-A		F1.20	A	4-CH-12/02-PR	I-BEAM, GANG	B-75
F-A	3	F1 20	B	4-CH-12/04-PR	FULL BOX	B-75
F-A	1	F1.20	B	4-CH-12/07-PR	TRUNNION	B-75
F-A		F1.20	C	4-CH-12/12-PR	SPRING CAN, COMPLEX	B-75
F-A	1	F1.20	A	4-CH-12/16-PR	I-BEAM	B-75
F-A		F1.20	B	4-CH-12/16-PR-1	3/4 BOX	B-75
F-A	2	F1.20	A	4-CH-12/17-PR-1	I-BEAM, GANG	B-75
F-A		F1.20	A	4-CH-12/17-PR-3	I-BEAM, GANG	B-75
F-A		F1 20	A	4-CH-12/17-PR-4	I-BEAM, ROD, GANG	B-75
F-A		F1.20	A	4-CH-12/19-PR	ROD & CLEVIS	B-75
F-A		F1 20	B	4-CH-12/19-PR-1	FULL BOX	B-75
F-A		F1 20	A	4-CH-12/19-PR-3	ROD & CLEVIS	B-75
F-A		F1.20	B	4-CH-12/28-PR-1	RISER, LUGS	B-75
F-A	3	F1.20	B	4-CH-13/09-PR	FULL BOX	B-76
F-A		F1.20	A	4-CH-13/09-PR-1	ROD, 3-BOLT, TURNBUCKLE	B-76
F-A		F1.20	B	4-CH-13/09-PR-2	I-BEAM, WELDED SADDLE	B-76
F-A		F1 20	A	4-CH-13/09-PR-3	ROD, 3-BOLT	B-76
F-A		F1.20	B	4-CH-13/09-PR-4	I-BEAM, U-BOLT	B-76
F-A		F1.20	A	4-CH-13/09-PR-5	ROD, 3-BOLT, TRAPEZE	B-76
F-A	3	F1 20	A	4-CH-13/11-PR	ROD, 3-BOLT	B-76
F-A	3	F1.20	B	4-CH-13/11-PR-2	FULL BOX, LUGS	B-76
F-A	3	F1 20	A	4-CH-13/13-PR	STRUT, 3-BOLT	B-76
F-A		F1.20	A	4-CH-13/15-PR	ROD, 3-BOLT, TURNBUCKLE	B-76
F-A		F1 20	A	4-CH-13/17-PR	ROD, 3-BOLT, TURNBUCKLE	B-76
F-A		F1 20	B	4-CH-13/19-PR	FULL BOX	B-76
F-A		F1.20	A	4-CH-13/19-PR-1	ROD, 3-BOLT	B-76
F-A		F1.20	A	4-CH-14/09-PR	PLATE, 3-BOLT	B-81
F-A		F1 20	B	4-CH-14/09-PR-1	3/4 BOX	B-81
F-A		F1 20	A	4-CH-14/09-PR-2	ROD, 3-BOLT	B-81
F-A		F1 20	B	4-CH-14/09-PR-3	I-BEAM, WELDED SADDLE	B-81
F-A		F1.20	B	4-CH-14/10-PR	I-BEAM, U-BOLT	B-81
F-A		F1 20	A	4-CH-14/10-PR-1	ROD, 3-BOLT	B-81
F-A		F1.20	A	4-CH-14/10-PR-2	ROD, 3-BOLT	B-81
F-A		F1.20	A	4-CH-14/12-PR	ROD, 3-BOLT, TURNBUCKLE	B-81
F-A		F1.20	A	4-CH-14/14-PR	ROD, 3-BOLT	B-81
F-A		F1.20	B	4-CH-14/14-PR-1	BOX	B-81
F-A		F1.20	A	4-CH-14/16-PR	ROD, 3-BOLT	B-81
F-A		F1.20	B	4-CH-14/18-PR	FULL BOX	B-81
F-A		F1.20	A	4-CH-14/18-PR-1	ANGLE, 3-BOLT	B-81
F-A		F1.20	B	4-CH-14/18-PR-2	FULL BOX	B-81
F-A		F1.20	A	4-CH-14/18-PR-3	ROD, 3-BOLT, TURNBUCKLE	B-81
F-A		F1.20	A	4-CH-14/19-PR	ROD, 3-BOLT	B-81
F-A		F1.20	B	4-CH-14/19-PR-1	STRUT, TRUNNION	B-81
F-A		F1.20	B	4-CH-14/19-PR-2	3/4 BOX	B-81
F-A	3	F1.20	C	6-AC-2001/02-PR	TRUNNION, SPRING CAN	B-48
F-A		F1.20	B	6-AC-2001/10-PR	PEDESTAL, DUAL U-BOLT	B-48
F-A		F1.20	B	6-AC-2001/14-PS	TRUNNION	B-48
F-A	2	F1.20	B	6-AC-2002/02-PR	3/4 BOX RESTRAINT	B-49

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
F-A	2	F1.20	A	6-AC-2002/04-PR	PLATE, 3-BOLT	B-49
F-A	2	F1.20	B	6-AC-2002/04-PS	TRUNNIOW, SLIDER	B-49
F-A		F1.20	B	6-AC-2002/09-PR	TRUNNION	B-49
F-A		F1.20	B	6-AC-2004/01-PR	GANG SUPPORT, U-BOLT	B-50A
F-A		F1.20	B	6-AC-2004/03-PR	DUAL STRUT, 3-BOLT	B-50A
F-A		F1.20	B	6-AC-2005/02-PR	GANG SUPPORT, BOX	B-51A
F-A		F1.20	B	6-AC-2011/46-PR	GANG, I-BEAM, U-BOLT	B-56
F-A		F1 20	B	6-AC-2014/44-PR	DUAL STRUT, U-BOLT	B-57
F-A		F1.20	B	6-AC-2014/46-PR	U-BOLT, GANG 2-PIPES	B-57
F-A	1	F1.20	A	6-CSS-2001/05-PR-1	TRAPEZE, ROD & CLEVIS	B-35
F-A		F1 20	C	6-HPSI-2001/08-PR	SPRING CAN, COMPLEX	B-41
F-A		F1.20	B	6-HPSI-2001/10-PS	TRUNNION	B-41
F-A		F1.20	C	6-HPSI-2002/17-PR	SPRING CAN, COMPLEX	B-40
F-A		F1 20	B	6-HPSI-2002/19-PS	TRUNNION	B-40
F-A		F1.20	C	6-HPSI-2003/11-PR	SPRING CAN, COMPLEX	B-40
F-A		F1.20	A	6-LPH-2014/01-PH	STRUT, 3-BOLT	B-34
F-A		F1.20	B	6-LPH-2014/05-PR	FULL BOX	B-34
F-A		F1.20	A	6-LPH-2014/09-PR-2	TRAPEZE, U-BOLT	B-34
F-A		F1.20	A	6-LPH-2014/09-PR-4	STRUT, 3-BOLT	B-34
F-A		F1.20	C	6-LPH-2014/11-PR-2	SPRING CAN	B-34
F-A		F1.20	B	6-LPH-2022/01-PR-2	FULL BOX	B-31
F-A		F1.20	C	6-LPH-2022/3D-PR	3-BOLT, SPRING CAN	B-31
F-A		F1.20	A	6-SI-2002/06-PR	STRUT, 3-BOLT	B-42
F-A		F1 20	A	6-SI-2002/08-PR-1	STRUT, 3-BOLT	B-42
F-A		F1.20	A	6-SI-2002/10-PR-2	ROD & CLEVIS	B-42
F-A		F1.20	C	6-SI-2012/02-PR-2	SPRING CAN, U-BOLT	B-33
F-A		F1 20	A	6-SI-2022/01A-PR	STRUT, 3-BOLT	B-31
F-A		F1.20	C	6-SI-2024/11-PR	SPRING CAN, U-BOLT	B-32
F-A		F1 20	B	8-AC-2001/02-PR	PEDESTAL, U-BOLT	B-52
F-A	1	F1.20	B	8-AC-2001/12-PR	PEDESTAL, U-BOLT	B-52
F-A		F1.20	B	8-AC-2001/16-PR-1	SADDLE, U-BOLT	B-52
F-A		F1.20	B	8-AC-2001/16-PR-2	GANG SUPPORT, BOX	B-52
F-A		F1.20	B	8-AC-2001/16-PR-3	GANG SUPPORT, BOX	B-52
F-A	2	F1.20	A	8-AC-2001/20-PR	I-BEAM, 3-BOLT	B-52
F-A		F1 20	A	8-AC-2001/21-PR	ROD & CLEVIS	B-52
F-A		F1.20	B	8-AC-2001/26-PR-1	BOX	B-52
F-A		F1.20	B	8-AC-2001/26-PR-2	FULL BOX	B-52
F-A	3	F1.20	B	8-AC-2001/26-PR-3	GANG SUPPORT, BOX	B-52
F-A		F1.20	B	8-AC-2001/27-PR-1	3/4 BOX	B-52
F-A		F1 20	A	8-AC-2001/27-PR-2	TRAPEZE, U-BOLT, GANG	B-52
F-A		F1 20	A	8-AC-2001/28-PR-2	TRAPEZE, U-BOLT	B-52
F-A		F1 20	A	8-AC-2001/28-PR-3	STRUT, U-BOLT, T-BKLE	B-52
F-A		F1 20	A	8-AC-2001/30-PR	TRAPEZE	B-52
F-A		F1.20	A	8-AC-2001/31-PR	STRUT, 3-BOLT, T/B	B-52
F-A		F1.20	B	8-AC-2002/02-PR	PEDESTAL, U-BOLT	B-53
F-A		F1.20	B	8-AC-2002/13-PR	PED, U-BOLT, PLATE, 3-B	B-53
F-A		F1.20	A	8-AC-2002/19-PR	STRUT,WELDED PLATE	B-53
F-A		F1.20	B	8-AC-2002/23-PR	3/4 BOX	B-53
F-A		F1.20	B	8-AC-2002/23-PR-1	BOX, 3-GANG	B-53

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F-A		F1.20	B	8-AC-2002/23-PR-2	BOX, 3-GANG	B-53
F-A		F1.20	A	8-AC-2002/23-PR-3	STRUT, 3-BOLT	B-53
F-A		F1.20	B	8-AC-2002/23-PR-4	STRUT, 3-BOLT	B-53
F-A		F1.20	C	8-AC-2002/24-PR	SPRING CAN, ROD & CLEVIS	B-53
F-A		F1.20	A	8-AC-2002/29-PR	STRUT, 3-BOLT	B-53
F-A		F1.20	A	8-AC-2002/29-PR-1	STRUT, 3-BOLT	B-53
F-A		F1.20	A	8-AC-2002/29-PR-2	ROD & CLEVIS	B-53
F-A		F1.20	A	8-AC-2002/29-PR-3	STRUT, 3-BOLT	B-53
F-A		F1.20	A	8-AC-2002/33-PR	TRAPEZE, U-BOLT, GANG	B-53
F-A		F1.20	A	8-AC-2002/33-PR-1	STRUT, 3-BOLT	B-53
F-A	1	F1.20	A	8-AC-2003/01-PR	TRAPEZE, U-BOLT, GANG	B-54
F-A		F1.20	A	8-AC-2003/05-PR	STRUT, 3-BOLT	B-54
F-A		F1 20	A	8-AC-2003/05-PR-1	STRUT, 3-BOLT	B-54
F-A		F1.20	B	8-AC-2003/05-PR-2	STRUT, 3-BOLT, LUGS	B-54
F-A		F1.20	A	8-AC-2003/05-PR-3	TRAPEZE, U-BOLT	B-54
F-A		F1.20	A	8-AC-2003/07-PR-1	STRUT, 3-BOLT	B-54
F-A		F1 20	C	8-AC-2003/12-PR	SPRING CAN, ROD & CLEVIS	B-54
F-A		F1 20	B	8-AC-2003/12-PR-2	I-BEAM, U-BOLT	B-54
F-A		F1 20	A	8-AC-2003/12-PR-3	TRAPEZE, STRUT, U-BOLT	B-54
F-A		F1 20	A	8-AC-2003/13-PR-1	ROD & CLEVIS	B-54
F-A		F1 20	A	8-AC-2003/13-PR-2	ROD & CLEVIS	B-54
F-A		F1.20	A	8-AC-2003/23-PR	STRUT, 3-BOLT	B-54
F-A		F1.20	B	8-AC-2003/34-PR	PEDESTAL, 3/4 BOX	B-54
F-A	3	F1.20	A	8-AC-2004/01-PR	TRAPEZE, STRUT	B-55
F-A		F1 20	A	8-AC-2004/03-PR	TRAPEZE, U-BOLT, GANG	B-55
F-A	3	F1 20	B	8-AC-2004/04-PR-1	BOX, GANG-2	B-55
F-A		F1.20	A	8-AC-2004/04-PR-3	STRUT, 3-BOLT	B-55
F-A		F1.20	A	8-AC-2004/04-PR-B	TRAPEZE, U-BOLT, GANG	B-55
F-A		F1 20	C	8-AC-2004/11-PR	SPRING CAN, ROD & CLEVIS	B-55
F-A		F1.20	B	8-AC-2004/11-PR-1	GANG BOX	B-55
F-A		F1 20	A	8-AC-2004/11-PR-4	STRUT, 3-BOLT, T/B	B-55
F-A		F1 20	B	8-AC-2004/11-PR-5	GANG BOX	B-55
F-A		F1.20	B	8-AC-2004/11-PR-6	FULL BOX	B-55
F-A		F1.20	B	8-AC-2004/15-PR	FULL BOX	B-55
F-A		F1.20	B	8-AC-2004/19-PR	DUAL STRUT, 3-BOLT	B-55
F-A		F1.20	B	8-AC-2004/34-PR	PEDESTAL, 3/4 BOX	B-55
F-A		F1.20	C	8-CSS-2001/03-PR-3	SPRING CAN/ ROD & CLEVIS	B-27
F-A		F1.20	C	8-CSS-2001/05-PR-3	SPRING CAN/ ROD & CLEVIS	B-26
F-A		F1.20	C	8-CSS-2001/06-PR	SPRING CAN, COMPLEX	B-26
F-A		F1.20	A	8-CSS-2001/08-PR	STRUT, 3-BOLT	B-26
F-A		F1.20	C	8-CSS-2002/05-PR	SPRING CAN, COMPLEX	B-27
F-A	2	F1.20	C	8-CSS-2003/02-PR-2	SPRING CAN, 3-BOLT	B-28
F-A		F1.20	C	8-CSS-2003/03-PR	SPRING CAN, COMPLEX	B-28
F-A		F1.20	A	8-CSS-2003/07-PR-1	ROD & CLEVIS	B-28
F-A		F1 20	A	8-CSS-2003/09-PR-A	TRAPEZE/DUAL TURNBUCKLE	B-28
F-A		F1.20	A	8-CSS-2003/09-PR-B	STRUT, 3-BOLT, T/B	B-28
F-A		F1 20	A	8-CSS-2003/11-PR	STRUT, 3-BOLT	B-28
F-A		F1.20	A	8-CSS-2003/14-PR-3	STRUT, 3-BOLT, T/B	B-28
F-A		F1 20	A	8-CSS-2003/14-PR-4	ROD & CLEVIS	B-28

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F-A	2	F1 20	C	8-HPSI-2001/02-PR-3	SPRING CAN, ROD & CLEVIS	B-40
F-A		F1 20	C	8-LPSI-2001/06-PR	SPRING CAN, COMPLEX	B-29
F-A		F1.20	C	8-LPSI-2001/08-PR-2	SPRING CAN, ROD & CLEVIS	B-29
F-A		F1 20	A	8-LPSI-2001/10-PR-2	STRUT, 3-BOLT	B-29
F-A		F1 20	A	8-LPSI-2001/12-PR-1	ROD & CLEVIS	B-29
F-A		F1.20	A	8-LPSI-2001/12-PR-3	STRUT, 3-BOLT, T/B	B-29
F-A		F1.20	A	8-LPSI-2001/15-PR-2	STRUT, 3-BOLT, T/B	B-29
F-A		F1.20	A	8-LPSI-2001/19-PR-1	STRUT, 3-BOLT	B-29
F-A		F1 20	B	8-LPSI-2001/19-PR-2	ANGLE, I-BEAM	B-29
F-A		F1 20	B	8-LPSI-2002/05-PR	COMPLEX	B-30
F-A	3	F1 20	C	8-LPSI-2002/10-PR-4	TRAPEZE, DUAL SPRING	B-30
F-A		F1 40	B	CSS-SI-3A-1	PUMP SUPPORT ASSEMBLY	B-47
F-A		F1 40	B	CSS-SI-3A-2	PUMP SUPPORT ASSEMBLY	B-47
F-A		F1 40	B	CSS-SI-3B-1	PUMP SUPPORT ASSEMBLY	B-47
F-A		F1.40	B	CSS-SI-3B-2	PUMP SUPPORT ASSEMBLY	B-47
F-A	3	F1.40	B	CSS-SI-3C-1	PUMP SUPPORT ASSEMBLY	B-47
F-A	3	F1.40	B	CSS-SI-3C-2	PUMP SUPPORT ASSEMBLY	B-47
F-A		F1 40	B	LPSI-SI-1A-1	PUMP SUPPORT ASSEMBLY	B-47
F-A		F1.40	B	LPSI-SI-1A-2	PUMP SUPPORT ASSEMBLY	B-47
F-A	3	F1 40	B	LPSI-SI-1B-1	PUMP SUPPORT ASSEMBLY	B-47
F-A	3	F1 40	B	LPSI-SI-1B-2	PUMP SUPPORT ASSEMBLY	B-47

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
D-A		D1.20	B	10-AC-1A-ACH-2-1	LUG WELDS	C-38
D-A		D1.20	B	10-AC-1A-ACH-3-1	TRUNNION WELD	C-38
D-A		D1 20	A	10-AC-1B-ACH-4-1	STRUT WELD	C-38
D-A		D1.20	B	10-AC-3B-ACH-10-1	TRUNNION WELD	C-49
D-A		D1.20	A	10-AC-4B-ACS-81A-1	LUG WELDS	C-50
D-A	2	D1 20	B	12-AC-1-ACH-1-1	TRUNNION WELD	C-37
D-A		D1.20	B	12-AC-2-ACS-326-1	LUG WELDS	C-39
D-A		D1.20	B	12-AC-2-ACS-76-1	WELDED SADDLE	C-39
D-A		D1.20	B	12-AC-4-ACS-335-1	WELDED SADDLE	C-44
D-A		D1.20	B	12-RW-1-RWH-1-1	LUG WELDS	C-24
D-A		D1.20	B	12-RW-1-RWH-2-1	LUG WELDS	C-24
D-A		D1.20	A	12-RW-1-RWH-3-1	WELDED PLATE	C-24
D-A	2	D1.20	B	12-RW-10/05-PR-1-VT1	TRUNNION WELD	C-62
D-A	2	D1.20	B	12-RW-10/05-PR-VT1	TRUNNION WELD	C-62
D-A		D1.20	B	12-RW-2A-RWS-106-1	LUG WELDS	C-28
D-A		D1.20	B	12-RW-2B-RWH-16-1	TRUNNION WELD	C-28
D-A		D1.20	B	12-RW-3-RWH-39/RWS-31-1	PEDESTAL WELD	C-25
D-A	1	D1.20	B	14-AC-2-ACS-67A-1	LUG WELDS	C-40
D-A		D1.20	B	14-AC-3A-ACH-16-1	TRUNNION WELD	C-40
D-A		D1.20	B	14-AC-3B-ACH-17-1	TRUNNION WELD	C-40
D-A		D1 20	A	14-RW-1-RWS-50A-1	LUG WELDS	C-19
D-A		D1 20	A	14-RW-10/RWS-22A-1	LUG WELDS	C-56
D-A		D1 20	B	14-RW-2-RWH-32-1	PEDESTAL WELD	C-26
D-A		D1.20	B	14-RW-2-RWH-34-1	LUG WELDS	C-26
D-A		D1 20	B	14-RW-2-RWS-132-1	LUG WELDS	C-26
D-A		D1 20	B	14-RW-2-RWS-38-1	TRUNNION WELD	C-26
D-A		D1.20	A	16-AC-1-ACS-161-1	WELDED SADDLE	C-36
D-A		D1.20	B	16-AC-1-ACS-163-1	WELDED SADDLE	C-36
D-A		D1 20	B	16-AC-2-ACS-56A-1	LUG WELDS	C-37
D-A		D1 20	B	16-AC-3-ACH-464-1	LUG WELDS	C-40
D-A		D1 20	B	16-AC-4-ACS-156A-1	LUG WELDS	C-43
D-A		D1 20	A	16-RW-1-RWH-9-1	TRUNNION WELD	C-19
D-A		D1 20	A	16-RW-1-RWS-109A-1	LUG WELDS	C-19
D-A		D1 20	B	16-RW-10/19-PR-VT1	TRUNNION WELD	C-61
D-A	3	D1 20	B	16-RW-11/04-PR-VT1	TRUNNION WELD	C-58
D-A		D1.20	A	16-RW-11/17-PR-VT1	WELDED PLATE	C-58
D-A		D1.20	A	16-RW-12/RWH-4-1	WELDED PLATE	C-57
D-A		D1.20	B	16-RW-14-RWS-25/RWH-31-1	LUG WELDS	C-25
D-A		D1.20	B	16-RW-2-RWH-47-1	LUG WELDS	C-22
D-A		D1.20	B	20-RW-1-RWS-118-1	BOX WELDED	C-23
D-A		D1.20	B	20-RW-1-RWS-119-1	LUG WELDS	C-23
D-A		D1.20	B	20-RW-3-RWH-41-1	PEDESTAL WELD	C-25
D-A		D1.20	B	20-RW-3-RWH-42-1	PEDESTAL WELD	C-25
D-A		D1.20	B	20-RW-3-RWH-36-1	PEDESTAL WELD	C-25
D-A		D1.20	B	20-RW-3-RWH-37-1	PEDESTAL WELD	C-25
D-A		D1 20	B	20-RW-3-RWH-38-1	PEDESTAL WELD	C-25
D-A		D1.20	B	20-RW-3-RWH-40-1	PEDESTAL WELD	C-25
D-A		D1 20	B	20-RW-3-RWH-43-1	PEDESTAL WELD	C-25
D-A		D1.20	B	20-RW-3-RWS-130-1	LUG WELDS	C-25
D-A		D1.20	B	20-RW-4-RWS-36-1	LUG WELDS	C-26

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D-A		D1 20	B	20-RW-5-RWH-26-1	PEDESTAL,WELD	C-27
D-A		D1.20	C	4-FW-4-FWH-205-1	LUG WELDS	C-09
D-A		D1.20	A	4-FW-4-FWH-209-1	WELDED SADDLE	C-10
D-A		D1 20	A	4-FW-4-FWH-210-1	WELDED SADDLE	C-10
D-A		D1.20	C	4-FW-4-FWH-213-1	WELDED SPRING CAN	C-10
D-A		D1.20	A	4-FW-6-FWS-65-1	WELDED SADDLE (SNUBBER)	C-12
D-A		D1.20	A	4-FW-6-FWH-223-1	LUG WELDS	C-12
D-A	1	D1.20	B	4-FW-9B-FWH-221-1	TRUNNION WELD	C-17
D-A		D1 20	B	6-AC-2-ACS-59-1	TRUNNION WELD	C-37
D-A		D1 20	B	8-AC-1A-ACS-19A-1	LUG WELDS	C-39
D-A		D1.20	B	8-AC-2-ACH-26-1	TRUNNION WELD	C-39
D-A		D1 20	A	8-AC-2B-ACS-29A-1	LUG WELDS	C-44
D-A		D1 20	B	8-AC-2B-ACS-30-1	WELDED SADDLE	C-45
D-A		D1.20	A	8-AC-2B-ACS-31-1	LUG WELDS	C-45
D-A		D1 20	B	8-FW-1-FWS-54-1	LUG WELDS	C-18
D-A	3	D1 20	C	16-AC-10-ACS-386-1	LUG WELDS (SNUBBER)	C-36
D-A		D1.20	C	8-AC-1-ACS-18-1	WELDED SADDLE (SNUBBER)	C-39
D-A		D1.20	C	16-RW-10/01-PR-VT1	WELDED PLATE	C-61
D-A		D1.20	C	6-AC-5-ACH-34-1	TRUNNION WELD	C-32
D-A		D1.20	C	6-AC-6-ACH-37-1	TRUNNION WELD	C-33
F-A	1	F1.30	A	1 5-FW-1-FWSP-20	STRUT, 3-BOLT	C-01
F-A		F1.30	B	1.5-FW-2/FWSP-23	C-7 GANG SUPPORT, 3/4 BOX RESTRA	C-16
F-A		F1.30	B	1 5-FW-2-FWSP-18	ANGLE, U-BOLT	C-15
F-A		F1 30	B	1.5-FW-2-FWSP-13	SEE C-7, GANG ANGLE U-BOLT	C-16
F-A		F1 30	B	1.5-FW-2-FWSP-14	3-GANG, ANGLE, U-BOLT	C-16
F-A		F1.30	B	1 5-FW-2-FWSP-15	3-GANG, ANGLE, U-BOLT	C-16
F-A		F1.30	B	1.5-FW-2-FWSP-16	3-GANG, ANGLE, U-BOLT	C-16
F-A		F1 30	B	1.5-FW-2-FWSP-17	3-GANG, ANGLE, U-BOLT	C-16
F-A		F1.30	B	1 5-FW-2-FWSP-18	2 GANG, ANGLE, U-BOLT	C-16
F-A		F1 30	B	1 5-FW-2-FWSP-22	I-BEAM, U-BOLT	C-15
F-A		F1.30	B	1.5-FW-2-FWSP-25	ANGLE, U-BOLT	C-16
F-A		F1.30	B	1 5-FW-2-FWSP-26	ANGLE, U-BOLT	C-16
F-A	3	F1 30	B	1.5-FW-2-FWSP-27	ANGLE, U-BOLT	C-16
F-A		F1 30	B	1 5-FW-2-FWSP-28	ANGLE, U-BOLT	C-16
F-A		F1.30	B	1.5-FW-2-FWSP-29	ANGLE, U-BOLT	C-16
F-A		F1 30	B	1.5-FW-2-FWSP-30	ANGLE, U-BOLT	C-16
F-A		F1 30	A	1 5-FW-2-FWSP-31	STRUT, 3-BOLT	C-16
F-A		F1 30	B	1 5-FW-2-FWSP-41	C-7 GANG, ANGLE,U-BOLT	C-16
F-A		F1 30	B	1.5-FW-2-MSSP-3	ANGLE, U-BOLT, GANG-2	C-15
F-A		F1.30	A	1.5-FW-2-MSSP-3A	ROD & CLEVIS	C-15
F-A		F1 30	B	1 5-FW-2-MSSP-61	ANGLE, U-BOLT, GANG	C-15
F-A	2	F1.30	B	10-AC-1A-ACH-2	RISER, LUGS	C-38
F-A	2	F1.30	B	10-AC-1A-ACH-3	TRUNNION	C-38
F-A	1	F1 30	A	10-AC-1A-ACS-356	STRUT, 3-BOLT	C-38
F-A		F1.30	A	10-AC-1B-ACH-4	STRUT, WELDED	C-38
F-A		F1 30	B	10-AC-2A-ACH-46	PEDESTAL, 3/4 BOX	C-38
F-A		F1 30	B	10-AC-2B-ACH-45	PEDESTAL, 3/4 BOX	C-38
F-A		F1.30	B	10-AC-3B-ACH-10	TRUNNION	C-49
F-A	2	F1.30	A	10-AC-4A-ACS-83	STRUT, 3-BOLT	C-50
F-A		F1 30	B	10-AC-4A-ACH-44	PEDESTAL, U-BOLT	C-50

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F-A		F1 30	B	10-AC-4B-ACS-379	3/4 BOX	C-50
F-A		F1.30	A	10-AC-4B-ACS-81A	STRUT, 3-BOLT, T/B, LUGS	B-50
F-A		F1 30	B	10-AC-4B-ACS-82	3/4 BOX, U-BOLT	C-50
F-A	2	F1.30	B	10-AC-4B-ACH-41	FULL BOX	C-50
F-A		F1.30	A	10-AC-4B-ACH-42	1/2 BOX	C-50
F-A		F1.30	A	10-AC-4B-ACH-43	ANGLE	C-50
F-A		F1.30	A	12-AC-1-ACS-63	STRUTS, 3-BOLT	C-37
F-A		F1.30	B	12-AC-1-ACH-1	TRUNNION	C-37
F-A		F1.30	B	12-AC-2-ACS-325	PLATE, U-BOLT	C-39
F-A		F1.30	B	12-AC-2-ACS-326	STRUT, 3-BOLT, T/B, LUGS	C-39
F-A		F1.30	B	12-AC-2-ACS-76	GANG, U-BOLT, WELDED SADDLE	C-39
F-A		F1.30	B	12-AC-2-ACH-31	GANG, U-BOLT, ANGLE	C-39
F-A		F1.30	B	12-AC-3A-ACH-370/ACS-187	PEDESTAL, U-BOLT	C-42
F-A		F1.30	B	12-AC-3B-ACH-369/ACS-186	PEDESTAL, U-BOLT	C-42
F-A	1	F1.30	B	12-AC-3C-ACH-367/ACS-184	PEDESTAL, U-BOLT	C-42
F-A		F1.30	B	12-AC-3C-ACH-368/ACS-185	PEDESTAL, U-BOLT	C-42
F-A		F1 30	A	12-AC-4-ACH-32	I-BEAM, 2 GANG, C-39 E-31	C-44
F-A		F1 30	A	12-AC-4-ACS-335A	PLATE, 3-BOLT	C-44
F-A		F1 30	A	12-AC-4-ACH-467	I-BEAM	C-44
F-A		F1.30	B	12-AC-4-ACS-335	STRUT, SADDLE WELD	C-44
F-A		F1.30	B	12-AC-5A-ACH-366	PEDESTAL, U-BOLT	C-46
F-A		F1.30	B	12-AC-5B-ACH-365	PEDESTAL, U-BOLT	C-46
F-A		F1 30	B	12-AC-5C-ACH-364	PEDESTAL, U-SOLT, SLIDER	C-46
F-A		F1 30	B	12-AC-6A-ACH-11/S-81	DUAL STRUT, 3-BOLT	C-49
F-A	1	F1 30	A	12-RW-1-RWS-124	STRUT, 3-BOLT	C-24
F-A		F1.30	A	12-RW-1-RWH-3	WELDED PLATE, STRUT	C-24
F-A	3	F1 30	B	12-RW-10/05-PR	STRUT, 3-BOLT, TRUNNION, TURNBU	C-62
F-A		F1.30	B	12-RW-10/05-PR-1	STRUT, 3-BOLT, TURNBUCKLE, TRUN	C-62
F-A		F1 30	A	12-RW-2A-RWS-105	STRUT, 3-BOLT, TURNBUCKLE	C-28
F-A		F1.30	B	12-RW-2A-RWS-106	STRUT, 3-BOLT, T/B, LUGS	C-28
F-A		F1 30	A	12-RW-2A-RWH-17	ROD & CLEVIS	C-28
F-A		F1 30	A	12-RW-2B-RWS-107	STRUT, 3-BOLT, TURNBUCKLE	C-28
F-A		F1 30	A	12-RW-2B-RWS-108	STRUT, 3-BOLT, TURNBUCKLE	C-28
F-A	2	F1.30	B	12-RW-2B-RWH-16	TRUNNION	C-28
F-A		F1.30	A	12-RW-2B-RWS-107A	PLATE, 3-BOLT	C-28
F-A		F1.30	A	14-AC-1A-ACH-23	ROD & CLEVIS	C-19
F-A		F1.30	A	14-AC-1A-ACS-77	STRUT, 3-BOLT, TURNBUCKLF	C-19
F-A		F1.30	B	14-AC-1B-ACH-22	TRAPEZE, SADDLE, STRUT	C-19
F-A		F1.30	B	14-AC-1B-ACS-78	3/4 BOX	C-19
F-A		F1.30	A	14-AC-1B-ACS-78A	STRUT, 3-BOLT, TURNBUCKLE	C-19
F-A		F1 30	A	14-AC-1B-ACH-21	TRAPEZE, STRUT	C-19
F-A		F1 30	B	14-AC-2-ACS-67A	STRUT, 3-BOLT, LUGS	C-40
F-A		F1 30	B	14-AC-2-ACH-14	PEDESTAL, DUAL U-BOLT	C-40
F-A		F1 30	B	14-AC-2-ACH-15	PEDESTAL, DUAL U-BOLT	C-44
F-A		F1.30	A	14-AC-2-RWH-5	STRUT, 3-BOLT	C-40
F-A		F1 30	B	14-AC-2-RWH-8	PEDESTAL, U-BOLT	C-40
F-A		F1 30	A	14-AC-3A-ACS-69	STRUT, 3-BOLT	C-40
F-A		F1.30	A	14-AC-3A-ACS-73	STRUT, 3-BOLT,TURNBUCKLE	C-40
F-A		F1.30	B	14-AC-3A-ACH-16	TRUNNION	C-40
F-A		F1.30	A	14-AC-3A-ACH-19	ROD & CLEVIS	C-40

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F-A		F1 30	A	14-AC-3A-ACH-461	PLATE, 3-BOLT	C-40
F-A		F1.30	B	14-AC-3B-ACS-381	DUAL STRUT, 3-BOLT	C-40
F-A		F1.30	B	14-AC-3B-ACH-17	TRUNNION	C-40
F-A		F1 30	A	14-AC-4-ACS-389	TRAPEZE, U-BOLT, DUAL STRUT	C-43
F-A		F1.30	B	14-RW-1-RWS-50	TRAPEZE, U-BOLT, STRUTS	C-19
F-A		F1 30	A	14-RW-1-RWS-50A	STRUT, 3-BOLT, T/B, LUGS	C-19
F-A		F1.30	A	14-RW-1-RWH-10	ROD & CLEVIS	C-19
F-A		F1.30	A	14-RW-10/09-PR	DUAL STRUT,TURNBUCKLE	C-56
F-A		F1.30	A	14-RW-10/09-PR-1	ROD & CLEVIS	C-56
F-A		F1 30	A	14-RW-10/13-PR	STRUT, 3-BOLT, TURNBKLE, LUGS	C-56
F-A		F1 30	A	14-RW-10/13-PR-1	ROD & CLEVIS	C-56
F-A		F1.30	A	14-RW-10/13-PR-2	STRUT, 3-BOLT, TURNBUCKLE	C-56
F-A		F1 30	A	14-RW-10/13-PR-3	STRUT, 3-BOLT	C-56
F-A		F1 30	B	14-RW-2-RWH-32	PEDESTAL, WELD	C-26
F-A	2	F1.30	B	14-RW-2-RWH-34	RISER, LUGS	C-26
F-A		F1.30	B	14-RW-2-RWS-132	LUGS, 3-BOLT	C-26
F-A	2	F1.30	B	14-RW-2-RWS-38	TRUNNION, CLAMP	C-26
F-A		F1.30	B	14-RW-2-RWH-33	PEDESTAL/SADDLE	C-26
F-A	2	F1.30	A	14-RW-2-RWS-26	PLATE, 3-BOLT	C-26
F-A		F1.30	A	16-AC-1-ACH-7	1/2 BOX	C-37
F-A		F1.30	B	16-AC-1-ACS-160	FULL BOX	C-36
F-A		F1.30	A	16-AC-1-ACS-161	STRUT, WELDED SADDLE	C-36
F-A		F1.30	A	16-AC-1-ACS-162	STRUT, 3-BOLT	C-36
F-A		F1.30	B	16-AC-1-ACS-163	U-BOLT, WELDED SADDLE	C-36
F-A		F1.30	A	16-AC-1-ACS-164	GANG, STRUT, 3-BOLT (2-PIPES)	C-36
F-A		F1.30	B	16-AC-1-ACS-383	FULL BOX	C-36
F-A		F1.30	A	16-AC-1-ACS-60	STRUT, 3-BOLT, TURNBUCELE	C-37
F-A		F1.30	A	16-AC-1-ACS-61	STRUT, 3-BOLT, TURNBUCKLE	C-36
F-A		F1.30	A	16-AC-1-ACH-236	STRUT, 3-BOLT, GANG (2-PIPES)	C-36
F-A		F1.30	A	16-AC-1-ACH-237	ROD & CLEVIS	C-36
F-A		F1.30	A	16-AC-1-ACH-238	ROD & CLEVIS	C-36
F-A		F1.30	A	16-AC-1-ACH-239	STRUT, 3-BOLT	C-36
F-A		F1.30	A	16-AC-1-ACH-240	ROD, 3-BOLT	C-36
F-A		F1.30	B	16-AC-1-ACH-241	TRAPEZE, SADDLE	C-36
F-A		F1.30	B	16-AC-10-ACS-387	STRUTS, 3-BOLTS	C-36
F-A		F1.30	B	16-AC-10-ACH-383	GANG(2-PIPES), PEDSTL, U-BOLT	C-34
F-A	1	F1.30	A	16-AC-10-ACH-384	ROD & CLEVIS	C-34
F-A		F1.30	A	16-AC-2-ACS-56	STRUT, 3-BOLT, TURNEUCKLF.	C-37
F-A		F1.30	B	16-AC-2-ACS-56A	STRUT, 3-BOLT, T/B, LUGS	C-37
F-A		F1.30	A	16-AC-2-ACH-5	ROD & CLEVIS	C-37
F-A		F1.30	B	16-AC-3-ACH-12/ACS-57	STRUT, 3-BOLT, I-BEAM	C-40
F-A		F1.30	A	16-AC-3-ACS-357	PLATE, 3-SOLT	C-40
F-A		F1.30	B	16-AC-3-ACH-464	RISER, LUGS	C-40
F-A		F1.30	A	16-AC-3-ACH-6	STRUT, 3-BOLT	C-40
F-A		F1.30	A	16-AC-4-ACS-155	STRUT, 3-BOLT, 2 GANG (C-36)	C-43
F-A		F1.30	B	16-AC-4-ACS-156/156A	FULL BOX, 3-BOLT, T/B, LUGS	C-43
F-A	1	F1.30	A	16-AC-4-ACS-158	TRAPEZE, U-BOLT, DUAL STRUT	C-41
F-A		F1.30	A	16-AC-4-ACS-159	STRUT, 3-BOLT, TURNBUCKLE	C-41
F-A		F1.30	B	16-AC-4-ACS-380	STRUT, U-BOLT	C-41
F-A		F1.30	A	16-AC-4-ACS-79	TRAPEZE, U-BOLT, DUAL STRUT & T/	C-41

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F-A		F1.30	A	16-AC-4-ACH-229	STRUT, 3-BOLT C-36 #236	C-43
F-A		F1.30	A	16-AC-4-ACH-230	ROD & CLEVIS	C-43
F-A		F1 30	A	16-AC-4-ACH-231	ROD & CLEVIS	C-43
F-A		F1.30	A	16-AC-4-ACH-232	ROD & CLEVIS	C-43
F-A		F1.30	A	16-AC-4-ACH-233	ROD & CLEVIS	C-41
F-A		F1 30	A	16-AC-4-ACH-234	STRUT, 3-BOLT	C-41
F-A	1	F1 30	A	16-AC-4-ACH-235	STRUT, 3-BOLT	C-41
F-A		F1.30	A	16-AC-4-ACH-24	PLATE, 3-BOLT	C-41
F-A	1	F1.30	B	16-AC-5-ACH-371/ACS-188	PEDESTAL, U-BOLT	C-42
F-A		F1 30	B	16-AC-5-ACH-372	PEDESTAL, U-BOLT C-34,383	C-42
F-A		F1.30	A	16-AC-6-ACH-246	TRAPEZE, DUAL STRUT, U-BOLT	C-47
F-A		F1.30	B	16-AC-6-ACS-166/H-243	STRUT, 3-BOLT, CONNECT TO 243	C-47
F-A		F1.30	B	16-AC-6-ACS-167	I-BEAM, U-BOLT	C-47
F-A		F1.30	B	16-AC-6-ACS-377	FULL BOX	C-47
F-A		F1 30	A	16-AC-6-ACS-378	STRUT, 3-BOLT	C-48
F-A		F1.30	A	16-AC-6-ACS-84	STRUT, 3-BOLT, TURNSUCKLE	C-48
F-A		F1 30	A	16-AC-6-ACS-84A	STRUT, 3-BOLT, TURNBUCKLE	C-48
F-A		F1.30	A	16-AC-6-ACH-244	STRUT, 3-BOLT	C-47
F-A		F1 30	A	16-AC-6-ACH-245	TRAPEZE, U-BOLT, DUAL ROD	C-47
F-A		F1 30	A	16-AC-6-ACH-451	ROD, 3-BOLT, TURNBUCKLE	C-47
F-A		F1 30	A	16-AC-6-ACH-452	TRAPEZE, SADDLE	C-48
F-A		F1.30	A	16-AC-6-ACH-8	STRUT, 3-BOLT	C-48
F-A		F1 30	A	16-AC-6-ACH-9	STRUT, 3-BOLT	C-48
F-A		F1 30	A	16-AC-6-ACS-168	STRUT, 3-BOLT, 2 GANG	C-47
F-A		F1.30	B	16-AC-7-ACH-374/ACS-191	PEDESTAL, U-BOLT	C-31
F-A		F1.30	B	16-AC-8-ACH-373/ACS-190	PEDESTAL, U-BOLT	C-31
F-A		F1.30	B	16-AC-9A-ACH-386	PEDESTAL, U-BOLT	C-34
F-A	1	F1.30	B	16-AC-9B-ACH-385	PEDESTAL, U-BOLT	C-34
F-A		F1.30	A	16-RW-1-RWS-109	STRUT, 3-BOLT, TURNBUCKLE	C-19
F-A		F1.30	A	16-RW-1-RWH-9	RIGID SUPPORT, WELD	C-19
F-A		F1.30	A	16-RW-1-RWS-109A	STRUT, 3-BOLT, T/B, LUGS	C-19
F-A		F1 30	C	16-RW-10/01-PR	WELDED LUG V/SPRING CAN	C-61
F-A		F1 30	A	16-RW-10/05-PR	THREADED ROD W/3-BOLT	C-61
F-A		F1.30	A	16-RW-10/05-PR-1	TRAPEZE	C-61
F-A		F1 30	B	16-RW-10/13-PR	BOX RESTRAINT	C-61
F-A		F1.30	A	16-RW-10/16-PR	ROD, 3-BOLT	C-61
F-A		F1 30	B	16-RW-10/19-PR	TRUNNION, SLIDER	C-61
F-A		F1 30	B	16-RW-10/22-PR	PEDESTAL, U-BOLT	C-61
F-A	3	F1 30	A	16-RW-10/22-PR-1	THREADED ROD, 3-BOLT	C-61
F-A		F1 30	C	16-RW-10/24-PR	TRAPEZE, DUAL SPRING CANS	C-61
F-A		F1.30	B	16-RW-11/01-PR	DUAL STRUT W/3-BOLTS	C-58
F-A		F1 30	B	16-RW-11/04-PR	TRUNNION	C-58
F-A		F1.30	A	16-RW-11/06-PR	ROD & CLEVIS	C-58
F-A		F1 30	A	16-RW-11/06-PR-1	STRUT, 3-BOLT	C-58
F-A		F1 30	A	16-RW-11/08-PR	RIGID STRUT W/U-BOLT	C-58
F-A		F1.30	A	16-RW-11/08-PR-1	ROD & CLEVIS	C-58
F-A		F1 30	A	16-RW-11/10-PR	ROD & CLEVIS	C-58
F-A	3	F1.30	B	16-RW-11/10-PR-1	ANGLE IRON W/U-BOLT	C-58
F-A		F1.30	A	16-RW-11/10-PR-2	ROD & CLEVIS	C-58
F-A		F1.30	B	16-RW-11/10-PR-3	ANGLE IRON W/U-BOLT	C-58

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
F-A		F1.30	A	16-RW-11/14-PR	STRUT W/TURNBUCKLE, 3-BOLT	C-58
F-A		F1.30	A	16-RW-11/14-PR-1	TRAPEZE W/U-BOLT	C-58
F-A		F1.30	A	16-RW-11/14-PR-2	STRUT W/TURNBUCKLE, 3-BOLT	C-58
F-A		F1.30	A	16-RW-11/17-PR	ROD W/WELDED LUG	C-58
F-A		F1.30	B	16-RW-11/18-PR	FULL BOX	C-58
F-A		F1.30	A	16-RW-12/06-PR	PLATE, 3-BOLT	C-57
F-A		F1.30	A	16-RW-12/06-PR-1	TRAPEZE, U-BOLT, DUAL STRUT	C-57
F-A		F1 30	A	16-RW-12/08-PR	STRUT, 3-BOLT, TURNBUCKLE	C-57
F-A		F1 30	A	16-RW-12/09-PR	WELDED PLATE, ROD	C-57
F-A		F1 30	A	16-RW-12/12-PR	ROD & CLEVIS	C-57
F-A	3	F1.30	A	16-RW-12/12-PR-1	STRUT, 3-BOLT	C-57
F-A		F1 30	A	16-RW-12/14-PR	STRUT, 3-BOLT, TURNBUCKLE	C-57
F-A		F1 30	B	16-RW-13/02-PR	DUAL STRUT & 3-BOLT	C-60
F-A		F1 30	B	16-RW-13/06-PR	FULL BOX, PED	C-60
F-A		F1 30	B	16-RW-13/06-PR-1	PED, W/U-BOLT	C-60
F-A		F1 30	B	16-RW-13/12-PR	TRAPEZE, U-BOLT/STRUT, 3-BOLT	C-60
F-A		F1.30	B	16-RW-13/12-PR-1	SLIDE PLATE/U-BOLT	C-60
F-A	2	F1.30	B	16-RW-14-RWS-25/H-31	RISER, LUGS	C-25
F-A	3	F1 30	C	16-RW-2-RWH-112	SPRING CAN, ROD, 3-BOLT	C-21
F-A		F1.30	B	16-RW-2-RWH-113	FULL BOX, GANG (3 PIPES)	C-22
F-A		F1.30	A	16-RW-2-RWS-123A	STRUT, 3-BOLT	C-22
F-A		F1 30	A	16-RW-2-RWS-51	PLATE, 3-BOLT	C-22
F-A		F1 30	B	16-RW-2-RWS-51A	PLATE, 3-BOLT	C-22
F-A		F1.30	A	16-RW-2-RWS-52	STRUT, 3-BOLT, TURNBUCKLE	C-22
F-A		F1 30	A	16-RW-2-RWS-75A	STRUT, 3-BOLT, TURNBUCKLE	C-21
F-A		F1.30	A	16-RW-2-RWS-76A	STRUT, 3-BOLT, TURNBUCKLE	C-21
F-A		F1.30	B	16-RW-2-RWS-77	FULL BOX	C-21
F-A		F1 30	B	16-RW-2-RWS-78	FULL BOX	C-21
F-A		F1 30	A	16-RW-2-RWS-79A	STRUT, 3-BOLT,TURNBUCKLE	C-21
F-A		F1 30	B	16-RW-2-RWH-106/RWS-75	DUAL STRUT, 3-BOLT	C-21
F-A		F1 30	A	16-RW-2-RWH-107	STRUT, 3-BOLT	C-21
F-A		F1 30	B	16-RW-2-RWH-108	I-BEAM, U-BOLT	C-21
F-A		F1 30	A	16-RW-2-RWH-109	ROD & CLEVIS	C-21
F-A		F1 30	A	16-RW-2-RWH-110	STRUT, 3-BOLT	C-21
F-A		F1 30	B	16-RW-2-RWH-124/RWS-90	PEDESTAL, U-SOLT	C-20
F-A		F1.30	B	16-RW-2-RWH-125/RWS-91	PEDESTAL, STRUT, U-BOLT	C-21
F-A		F1 30	B	16-RW-2-RWH-127/RWS-93	DUAL STRUT, 3-BOLT	C-21
F-A		F1 30	B	16-RW-2-RWH-47	RISER, LUGS	C-22
F-A		F1 30	B	16-RW-2-RWH-48	TRAPEZE, U-BOLT, STRUT	C-22
F-A		F1 30	B	16-RW-2-RWS-127	3/4 BOX, PEDASTAL	C-21
F-A		F1 30	A	16-RW-2-RWS-52A	PLATE, 3-BOLT	C-22
F-A		F1 30	B	16-RW-2-RWS-92	DUAL STRUT, 3-BOLT	C-21
F-A		F1 30	B	16-RW-4-RWS-35A	PEDESTAL, U-BOLT	C-26
F-A		F1 30	B	2-FW-1-FWSP-32	ANGLE, U-BOLT	C-04
F-A		F1 30	B	2-FW-1-FWSP-32A	ANGLE, U-BOLT	C-04
F-A	3	F1.30	B	2-FW-1-FWSP-33	ANGLE, U-BOLT	C-04
F-A		F1 30	B	2-FW-2A-FWSP-01	ANGLE, U-BOLT	C-05
F-A		F1 30	A	2-FW-3-FWSP-03	ROD & CLEVIS	C-06
F-A		F1 30	A	2-FW-3-FWSP-03A	ROD & CLEVIS	C-06
F-A		F1.30	A	2-FW-3-FWSP-04	ROD & CLEVIS	C-06

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F-A		F1.30	A	2-FW-3-FWSP-05	ROD & CLEVIS	C-06
F-A		F1.30	A	2-FW-3-FWSP-06	ROD & CLEVIS	C-06
F-A		F1.30	A	2-FW-3-FWSP-07	ROD & CLEVIS	C-06
F-A		F1.30	B	2-FW-3-FWSP-08	ANGLE, U-BOLT	C-06
F-A		F1.30	B	2-FW-3-FWSP-09	GANG ANGLE, U-BOLT	C-06
F-A		F1.30	B	2-FW-3-FWSP-10	ANGLE, U-BOLT	C-07
F-A		F1.30	B	2-FW-3-FWSP-11	ANGLE, U-BOLT	C-07
F-A		F1.30	B	2-FW-3-FWSP-12	ANGLE, U-BOLT	C-07
F-A		F1.30	B	2-FW-3-FWSP-13	U-SOLT, 2 GANG PIPE	C-07
F-A		F1.30	B	2-FW-3-FWSP-14	GANG SUPPORT U-BOLT 3-PIPE	C-07
F-A	1	F1.30	B	2-FW-3-FWSP-15	SEE C-16, GANG U-BOLT 3 PIPE	C-07
F-A		F1.30	B	2-FW-3-FWSP-16	SEE C-16, GANG U-BOLT 3 PIPE	C-07
F-A		F1.30	B	2-FW-3-FWSP-17	SEE C-16, GANG U-BOLT 3 PIPE	C-07
F-A		F1.30	B	2-FW-3-FWSP-18	SEE C-16, GANG U-BOLT 2 PIPE	C-07
F-A		F1.30	B	2-FW-3-FWSP-19	U-BOLT, ANGLE	C-07
F-A		F1.30	B	2-FW-3-FWSP-40	GANG SUPPORT, 3/4 BOX	C-07
F-A		F1.30	B	2-FW-3-FWSP-41	U-BOLT, GANG	C-07
F-A		F1.30	A	2-MS-4/13-PR	STRUT, 3-BOLT	C-55
F-A		F1.30	A	2-MS-4/17-PR	STRUT, 3-BOLT	C-55
F-A		F1.30	B	2-MS-4/21-PR	DUAL STRUT, 3-BOLT	C-55
F-A		F1 30	A	2-MS-4/21-PR-1	STRUT, 3-BOLT	C-55
F-A		F1.30	A	2-MS-4/23-PR	STRUT, 3-BOLT	C-55
F-A		F1.30	A	2-MS-4/23-PR-1	STRUT, 3-BOLT	C-55
F-A		F1 30	A	2-MS-4/25-PR	PLATE, 3-BOLT	C-55
F-A		F1.30	A	2-MS-4/25-PR-1	STRUT, 3-BOLT	C-55
F-A		F1.30	A	2-MS-4/27-PR	STRUT, 3-BOLT	C-55
F-A		F1.30	A	2-MS-4/31-PR	STRUT, 3-BOLT	C-55
F-A	3	F1 30	B	2-MS-4/33-PR	ANGLE, U-BOLT	C-55
F-A		F1 30	B	2-MS-4/33-PR-1	ANGLE, U-BOLT	C-55
F-A		F1 30	B	2-MS-4/33-PR-2	ANGLE, U-BOLT	C-55
F-A		F1 30	B	2-MS-4/39-PR	ANGLE, U-BOLT	C-55
F-A		F1.30	A	2-MS-4/43-PR-1	STRUT, 3-BOLT	C-53
F-A		F1.30	C	2-MS-4/43-PR-2	SPRING CAN	C-53
F-A		F1 30	A	2-MS-4/47-PR	ROD & CLEVIS	C-53
F-A		F1.30	B	2-MS-4/47-PR-1	ANGLE, U-BOLT	C-53
F-A		F1 30	B	2-MS-4/47-PR-2	ANGLE, U-BOLT	C-55
F-A		F1 30	A	2-MS-4/47-PR-3	ROD & CLEVIS	C-53
F-A		F1 30	B	2-MS-4/49-PR-1	ANGLE, U-BOLT	C-53
F-A		F1 30	A	2-MS-4/49-PR-2	ROD, 3-BOLT	C-53
F-A		F1.30	B	2-MS-4/49-PR-3	ANGLE, U-BOLT	C-53
F-A		F1 30	B	2-MS-4/53-PR	ANGLE, U-BOLT	C-53
F-A		F1 30	A	2-MS-5/15-PR	STRUT, 3-BOLT	C-54
F-A		F1 30	A	2-MS-5/15-PR-1	STRUT, 3-BOLT	C-54
F-A		F1.30	A	2-MS-5/17-PR	STRUT, 3-BOLT	C-54
F-A		F1 30	B	2-MS-5/21-PR	ANGLE, U-B OLT	C-54
F-A		F1 30	B	2-MS-5/23-PR	ANGLE, U-BOLT	C-54
F-A		F1.30	B	2-MS-5/25-PR	I-BEAM, U-BOLT	C-54
F-A		F1 30	B	2-MS-5/27-PR	ANGLE, U-BOLT	C-54
F-A		F1 30	B	2-MS-5/27-PR-1	STRUT, 3-BOLT	C-54
F-A		F1.30	A	2-MS-5/27-PR-2	ANGLE, U-BOLT	C-54

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F-A		F1.30	A	2-MS-5/27-PR-3	ROD & CLEVIS	C-54
F-A	3	F1.30	B	2-MS-5/29-PR	I-BEAM, U-BOLT	C-54
F-A		F1.30	A	2-MS-5/29-PR-1	ROD & CLEVIS	C-54
F-A		F1.30	A	2-MS-5/29-PR-2	ROD & CLEVIS	C-54
F-A		F1.30	B	2-MS-5/31-PR	ANGLE, U-BOLT	C-54
F-A		F1.30	B	2-MS-5/33-PR	ANGLE, U-BOLT	C-54
F-A	3	F1.30	A	2-MS-5/33-PR-1	STRUT, 3-BOLT	C-54
F-A		F1.30	B	2-MS-5/35-PR	ANGLE, U-BOLT	C-54
F-A		F1.30	B	2-MS-5/53-PR	BOX	C-53
F-A		F1.30	A	2-MS-5/55-PR	STRUT, 3-BOLT	C-53
F-A		F1.30	A	2-MS-5/55-PR-1	STRUT, 3-BOLT	C-53
F-A		F1 30	B	2-MS-5/55-PR-2	ANGLE, U-BOLT	C-53
F-A		F1 30	B	20-RW-1-RWH-121A	TRAPEZE, U-BOLT, STRUTS	C-23
F-A		F1 30	A	20-RW-1-RWH-140	STRUT, 3-BOLT	C-23
F-A		F1 30	B	20-RW-1-RWH-45	TRAPEZE, U-BOLTSTRUTS	C-23
F-A		F1.30	B	20-RW-1-RWH-66A	PEDESTAL, U-BOLT	C-23
F-A		F1 30	B	20-RW-1-RWH-69A	PEDESTAL, U-BOLT	C-23
F-A	3	F1 30	A	20-RW-1-RWH-69B	PLATB, 3-BOLT	C-23
F-A		F1 30	B	20-RW-1-RWS-119	PEDESTAL, FULL BOX, LUGS	C-23
F-A		F1 30	A	20-RW-1-RWS-46	STRUTS, 3-BOLT, TURNBUCKLE	C-23
F-A	3	F1 30	A	20-RW-1-RWH-139	STRUTS, 3-BOLT	C-23
F-A		F1.30	A	20-RW-1-RWH-44	ROD, 3-BOLT	C-23
F-A	3	F1 30	A	20-RW-1-RWH-64	PEDESTAL, I-BEAM	C-23
F-A		F1 30	A	20-RW-1-RWH-65	PEDESTAL, I-BEAM	C-23
F-A		F1 30	B	20-RW-1-RWH-66B	PEDESTAL, U-BOLT	C-23
F-A		F1 30	B	20-RW-1-RWH-67	PEDESTAL, SADDLE	C-23
F-A		F1 30	B	20-RW-1-RWH-68	BOX, FULL	C-23
F-A		F1.30	A	20-RW-1-RWH-70	PEDESTAL, DUAL STRUT	C-23
F-A		F1.30	B	20-RW-1-RWS-118	FULL BOX, PEDESTAL, LUGS	C-23
F-A		F1.30	A	20-RW-1-RWS-44A	STRUT, U-BOLT, TURNBUCKLE	C-23
F-A		F1.30	A	20-RW-1-RWS-47	STRUT, 3-BOLT, TURNBUCKLE	C-23
F-A		F1.30	B	20-RW-3-RWH-41	PEDESTAL, WELD	C-25
F-A		F1 30	B	20-RW-3-RWH-39/RWS-31	PEDESTAL, WELD	C-25
F-A		F1 30	B	20-RW-3-RWH-42	PEDESTAL, WELD	C-25
F-A		F1.30	A	20-RW-3-RWS-28	STRUT, 3-BOLT	C-25
F-A		F1.30	A	20-RW-3-RWS-29	STRUT, 3-BOLT	C-25
F-A		F1 30	A	20-RW-3-RWS-30	STRUT, 3-BOLT	C-25
F-A		F1 30	A	20-RW-3-RWS-32	STRUT, 3-BOLT	C-25
F-A		F1.30	A	20-RW-3-RWS-33	STRUT, 3-BOLT	C-25
F-A		F1 30	A	20-RW-3-RWS-35	STRUT, 3-BOLT	C-25
F-A		F1 30	A	20-RW-3-RWH-141	PEDESTAL	C-25
F-A		F1 30	A	20-RW-3-RWH-142	PEDESTAL	C-25
F-A		F1 30	A	20-RW-3-RWH-35	STRUT, 3-BOLT	C-25
F-A		F1 30	B	20-RW-3-RWH-36	PEDESTAL, WELD	C-25
F-A		F1 30	B	20-RW-3-RWH-37	PEDESTAL, WELD	C-25
F-A		F1 30	B	20-RW-3-RWH-38	PEDESTAL, WELD	C-25
F-A		F1 30	B	20-RW-3-RWH-40	PEDESTAL, WELD	C-25
F-A		F1 30	B	20-RW-3-RWH-43	PEDESTAL, WELD	C-25
F-A		F1.30	B	20-RW-3-RWS-130	LUGS, 3-BOLT	C-25
F-A		F1 30	A	20-RW-3-RWS-27	STRUT, 3-BOLT,TURNBUCKLE	C-25

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F-A		F1.30	A	20-RW-3-RWS-34	STRUT, 3-BOLT	C-25
F-A		F1.30	B	20-RW-4-RWH-28	PEDESTAL, SADDLE	C-27
F-A		F1 30	B	20-RW-4-RWS-36	LUG, 3/4 BOX	C-26
F-A		F1.30	A	20-RW-4-RWS-41	TRAPEZE, U-BOLT, STRUTS	C-27
F-A		F1 30	A	20-RW-4-RWS-42	TRAPEZE, U-BOLT, STRUTS	C-27
F-A		F1.30	B	20-RW-4-RWH-29	PEDESTAL, SADDLE	C-27
F-A	1	F1 30	B	20-RW-4-RWH-30	PEDESTAL, SADDLE	C-26
F-A		F1.30	B	20-RW-5-RWS-125	FULL BOX	C-27
F-A		F1.30	B	20-RW-5-RWS-126	DUAL STRUT, 3-BOLT	C-27
F-A	3	F1.30	A	20-RW-5-RWS-39	TRAPEZE, U-BOLT, STRUTS	C-27
F-A	3	F1.30	A	20-RW-5-RWH-24	TRAPEZE, ROD & CLEVIS	C-27
F-A		F1 30	A	20-RW-5-RWH-25	TRAPEZE, ROD & CLEVIS	C-27
F-A		F1 30	B	20-RW-5-RWH-26	PEDESTAL, WELD	C-27
F-A		F1.30	A	20-RW-5-RWH-27	ROD, 3-BOLT	C-27
F-A		F1.30	B	20-RW-5-RWS-133	3/4 BOX	C-27
F-A		F1.30	C	20-RW-6-RWH-144	PED, SPRING CAN,STRUT, 3-BOLT	C-29
F-A		F1.30	C	20-RW-6-RWH-145	PED, SPRING CAN, STRUT, 3-BOLT	C-29
F-A		F1.30	C	20-RW-6-RWH-146	PED, SPRING CAN, STRUT, 3-BOLT	C-29
F-A		F1.30	C	20-RW-6-RWH-19/RWS-102	STRUT, 3-BOLT, SPRG CAN, PEDSTL	C-29
F-A		F1.30	C	20-RW-6-RWH-62/RWS-100	STRUT, 3-BOLT, SPRG CAN, PED	C-29
F-A		F1.30	c	20-RW-6-RWH-63/RWS-101	STRUT, 3-BOLT, SPRG CAN, PED	C-29
F-A		F1.30	B	20-RW-7-RWS-104	ANGLE, STRUT, 3-BOLT	C-30
F-A		F1.30	B	20-RW-7-RWS-129	DUAL STRUT, 3-BOLT	C-30
F-A		F1 30	A	3-FW-1-FWH-147	ROD, 3-BOLT	C-14
F-A		F1 30	A	3-FW-1-FWH-148	ROD, 3-BOLT,TURNBUCKLE	C-14
F-A		F1.30	A	3-FW-1-FWH-226	TRAPEZE,ROD	C-14
F-A		F1 30	B	3-FW-1A-FWS-109A	U-BOLT, ANGLE	C-02
F-A		F1.30	B	3-FW-1A-FWS-109B	U-BOLT, ANGLE	C-02
F-A		F1.30	B	3-FW-1A-FWS-109C	U-BOLT, ANGLE	C-02
F-A		F1 30	B	3-FW-1A-FWS-109D	U-BOLT, ANGLE	C-02
F-A	1	F1 30	B	3-FW-1A-FWS-109E	U-BOLT, ANGLE	C-02
F-A		F1 30	A	3-FW-2-FWH-149	ROD, 3-BOLT	C-14
F-A		F1.30	B	3-FW-2-FWH-151	PEDESTAL, U-BOLT	C-14
F-A		F1 30	B	3-FW-2-FWH-224	DUAL PEDESTAL, DUAL U-BOLT	C-14
F-A	3	F1.30	A	3-FW-2-FWS-116	STRUT, SADDLE CLAMP	C-14
F-A		F1.30	A	3-FW-3-FWH-145	ROD, 3-BOLT, TURNBUCKLE	C-13
F-A		F1 30	B	3-FW-3-FWS-122	3/4 BOX	C-13
F-A		F1 30	A	3-FW-3-FWH-143	ROD, 3-BOLT	C-13
F-A		F1 30	A	3-FW-3-FWH-144	ROD, 3-BOLT	C-13
F-A		F1 30	B	3-FW-3-FWH-225	DUAL PEDESTAL, U-BOLT	C-13
F-A		F1 30	A	3-FW-3-FWS-117	STRUT, SADDLE CLAMP	C-13
F-A		F1.30	B	4-FW-1-FWH-114	PEDESTAL, U-BOLT	C-01
F-A	3	F1 30	B	4-FW-1-FWH-115/FWS-52	PEDESTAL, U-BOLT	C-01
F-A		F1 30	B	4-FW-10-FWH-127	PEDESTAL, U-BOLT	C-03
F-A		F1.30	C	4-FW-2B-FWH-17	SPRING CAN, TRAPEZE, 3-BOLT	C-08
F-A		F1.30	A	4-FW-2B-FWS-30A	STRUT, 3-BOLT	C-08
F-A		F1 30	C	4-FW-3A-FWH-204	SPRING CAN,3-BOLT	C-09
F-A		F1.30	B	4-FW-3A-FWS-114	ANGLE, U-BOLT	C-09
F-A		F1.30	A	4-FW-3B-FWS-86	STRUT, 3-BOLT, TRNBUCKLE	C-09
F-A		F1 30	C	4-FW-3B-FWH-202	SPRING CAN,3-BOLT	C-09

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
F-A		F1.30	C	4-FW-4-FWH-206	SPRING CAN,3-BOLT	C-09
F-A		F1.30	C	4-FW-4-FWH-205	DUAL SPRINGS, RISER,LUGS	C-09
F-A		F1.30	A	4-FW-4-FWH-207	STRUT, 3-BOLT	C-10
F-A		F1.30	A	4-FW-4-FWH-208	ROD, 3-BOLT	C-10
F-A		F1.30	A	4-FW-4-FWH-209	TRAPEZE, SADDLE WELD, ROD	C-10
F-A		F1 30	A	4-FW-4-FWH-210	TRAPEZE, SADDLE WELD, ROD	C-10
F-A		F1 30	A	4-FW-4-FWH-211	ROD, 3-BOLT	C-10
F-A		F1 30	A	4-FW-4-FWH-212	ROD, 3-BOLT	C-10
F-A	3	F1 30	C	4-FW-4-FWH-213	SPRING CAN, WELDED	C-10
F-A		F1 30	B	4-FW-4-FWS-113	3/4 BOX	C-09
F-A		F1.30	A	4-FW-5-FWH-135	ANGLE, 3-BOLT	C-11
F-A		F1 30	A	4-FW-5-FWS-120	STRUT, 3-BOLT	C-11
F-A		F1.30	A	4-FW-5-FWH-133	ANGLE, 3-BOLT	C-11
F-A		F1.30	A	4-FW-5-FWH-134	ANGLE, 3-BOLT	C-11
F-A		F1 30	C	4-FW-5-FWH-136	SPRING CAN, 3-BOLT	C-11
F-A		F1.30	A	4-FW-5-FWH-137	PEDESTAL, 3-BOLT	C-11
F-A	2	F1 30	B	4-FW-6-FWH-129	PEDESTAL, U-BOLT	C-12
F-A		F1.30	C	4-FW-6-FWH-13	SPRING CAN, 3-BOLT	C-12
F-A	3	F1 30	A	4-FW-6-FWH-130	ROD, 3-BOLT, TURNBUCICLE	C-12
F-A		F1 30	A	4-FW-6-FWH-131	ROD, 3-BOLT	C-12
F-A		F1 30	A	4-FW-6-FWH-132	ROD, 3-BOLT	C-12
F-A		F1 30	A	4-FW-6-FWH-14	TRAPEZE, 3-BOLT, ROD	C-12
F-A		F1.30	C	4-FW-6-FWH-15	SPRING CAN, TRAPEZE, 3-BOLT	C-08
F-A	1	F1 30	A	4-FW-6-FWH-223	ROD, BOX, LUGS	C-12
F-A		F1 30	B	4-FW-6-FWS-118	ANGLE, U-BOLT	C-12
F-A		F1 30	B	4-FW-6-FWS-119	ANGLE, U-BOLT	C-12
F-A		F1 30	A	4-FW-6-FWS-29	STRUT, 3-BOLT, TRNBUCKLE	C-12
F-A		F1.30	A	4-FW-7-FWS-75	STRUT, 3-BOLT, TURNBUCKLE	C-13
F-A		F1 30	A	4-FW-7-FWH-141	ROD, 3-BOLT	C-13
F-A		F1.30	A	4-FW-7-FWH-142	ROD, 3-BOLT,T/B	C-13
F-A		F1 30	B	4-FW-9B-FWH-221	TRUNNION	C-17
F-A	1	F1 30	A	6-AC-1-ACS-144	STRUT, 3-BOLT	C-35
F-A		F1.30	A	6-AC-1-ACS-144A	STRUT, 3-BOLT,TURNBUCKLE	C-35
F-A		F1 30	A	6-AC-1-ACS-146	STRUT, 3-BOLT, TURNBUCKLE	C-35
F-A		F1 30	A	6-AC-1-ACS-148	STRUT, 3-BOLT,TURNBUCKLE	C-35
F-A		F1 30	A	6-AC-1-ACS-148A	STRUT, 3-BOLT,TURNBUCKLE	C-35
F-A		F1 30	A	6-AC-1-ACS-150	STRUT, 3-BOLT,TURNBUCKLE	C-35
F-A		F1 30	A	6-AC-1-ACS-178	STRUT, 3-BOLT	C-35
F-A	1	F1 30	B	6-AC-1-ACS-375	U-BOLT, 2 GANG	C-35
F-A		F1 30	B	6-AC-1-ACS-376	3/4 BOX, 2 GANG	C-35
F-A		F1 30	B	6-AC-1-ACH-226	TRAPEZE, 4-BOLT, GANG (2-PIPES)	C-35
F-A		F1 30	A	6-AC-1-ACH-228	ROD & CLEVIS	C-35
F-A		F1 30	A	6-AC-1-ACH-255	ROD & CLEVIS	C-35
F-A		F1 30	A	6-AC-1-ACH-256	ROD & CLEVIS	C-35
F-A		F1 30	A	6-AC-1-ACH-257	ROD & CLEVIS	C-35
F-A		F1 30	B	6-AC-1-ACH-266	GANG SUPPORT, BOX (2-PIPES)	C-35
F-A		F1 30	A	6-AC-1-ACH-458	ROD & CLEVIS	C-35
F-A		F1 30	A	6-AC-1-ACH-459	I-BEAM	C-35
F-A	2	F1 30	B	6-AC-2-ACS-382	3/4 BOX	C-37
F-A		F1.30	B	6-AC-2-ACS-59	TRUNNION	C-37

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
F-A		F1.30	A	6-AC-3-ACS-143	STRUT, 3-BOLT	C-51
F-A	1	F1.30	A	6-AC-3-ACS-143A	STRUT, 3-BOLT	C-51
F-A		F1 30	A	6-AC-3-ACS-145	STRUT, 3-BOLT,TURNBUCKLE	C-52
F-A		F1 30	A	6-AC-3-ACS-147	STRUT, 3-BOLT,TURNBUCKLE	C-51
F-A		F1 30	A	6-AC-3-ACS-149	STRUT, 3-BOLT,TURNBUCKLE	C-51
F-A		F1.30	A	6-AC-3-ACS-180	STRUT, 3-BOLT,TRNBUCKLE	C-52
F-A		F1.30	B	6-AC-3-ACS-375	3/4 BOX SUPPORT, 2 GANG C-35	C-51
F-A		F1.30	B	6-AC-3-ACS-376	GANG SUPP, U-BOLT, 2-PIPES C-35	C-51
F-A	1	F1.30	A	6-AC-3-ACH-226	TRAPEZE, U-BOLT, 2 -PIPES, DUAL R(	C-51
F-A		F1.30	A	6-AC-3-ACH-227	STRUT, 3-BOLT	C-52
F-A		F1.30	A	6-AC-3-ACH-258	ROD & CLEVIS	C-52
F-A		F1.30	A	6-AC-3-ACH-259	ROD & CLEVIS	C-52
F-A		F1 30	A	6-AC-3-ACH-260	ROD CLEVIS	C-52
F-A		F1.30	B	6-AC-3-ACH-266	3/4 BOX	C-51
F-A		F1.30	A	6-AC-3-ACH-267	ROD, 3-BOLT	C-51
F-A		F1.30	A	6-AC-5-ACS-317	STRUT, 3-BOLT, TURNBUCKLE	C-32
F-A		F1.30	A	6-AC-5-ACS-318	STRUT, 3-BOLT, TURNBUCKLE	C-32
F-A		F1.30	A	6-AC-5-ACS-319	STRUT, 3-BOLT	C-32
F-A		F1.30	A	6-AC-5-ACS-320	STRUT, 3-BOLT	C-32
F-A		F1.30	A	6-AC-5-ACH-33	ROD & CLEVIS	C-32
F-A		F1.30	C	6-AC-5-ACH-34	SPRING CAN, TRUNNION	C-32
F-A		F1.30	A	6-AC-6-ACS-315	STRUT, 3-BOLT, TURNBUCKLE	C-33
F-A		F1 30	B	6-AC-6-ACS-316	3/4 BOX	C-33
F-A		F1 30	A	6-AC-6-ACS-321	STRUT, 3-BOLT	C-33
F-A		F1 30	A	6-AC-6-ACS-322	STRUT, 3-BOLT	C-33
F-A		F1 30	A	6-AC-6-ACH-36	ROD & CLEVIS	C-33
F-A		F1 30	C	6-AC-6-ACH-37	ISPRING	C-33
F-A	3	F1.30	A	6-FW-1A-FWS-27	STRUT,3-BOLT	C-17
F-A		F1 30	B	6-FW-1A-FWH-11	PEDESTAL, U-BOLT	C-17
F-A		F1.30	A	6-FW-1A-FWH-12	ROD & CLEVIS, TRNBUCKLE	C-17
F-A		F1 30	A	6-FW-1A-FWH-222	STRUT, 3-BOLT	C-17
F-A		F1 30	B	6-FW-1B-FWH-10/FWS-26	TRUNNION,STRUT, 3/B, U/B, PED, T/B	C-17
F-A		F1 30	B	6-RW-10/05-PR	PEDESTAL W/U-BOLT	C-59
F-A		F1.30	A	6-RW-11/10-PR	THREADED ROD & CLEVIS	C-62
F-A		F1.30	A	6-RW-11/12-PR	STRUT, 3-BOLT, TURNBUCKLE	C-62
F-A		F1.30	A	6-RW-11/12-PR-1	ROD & CLEVIS	C-62
F-A		F1.30	A	6-RW-11/14-PR	STRUT, TURNBUCKLE, 3-BOLT	C-62
F-A		F1.30	A	6-RW-11/14-PR-1	ROD & CLEVIS	C-62
F-A		F1.30	A	6-RW-11/16-PR	STRUT, 3-BOLT, TURNBUCKLE	C-62
F-A		F1.30	A	6-RW-11/16-PR-1	ROD & CLEVIS	C-62
F-A		F1 30	B	8-AC-1-ACS-17	GANG SUPPORT, 3/4 BOX C-44, S-27	C-39
F-A		F1 30	A	8-AC-1-ACH-195	STRUT, U-BOLT	C-39
F-A	2	F1 30	A	8-AC-1-ACH-197	ROD & CLEVIS	C-39
F-A		F1 30	B	8-AC-1-ACH-30	GANG (2-PIPES), I-BEAM, U-BOLT	C-39
F-A		F1 30	A	8-AC-1A-ACS-19	STRUT, 3-BOLT, TURNBUCKLE	C-39
F-A		F1.30	B	8-AC-1A-ACS-19A	STRUT, 3-BOLT, LUGS	C-39
F-A		F1 30	A	8-AC-1A-ACS-20	STRUT, 3-BOLT, TURNBUCKLE	C-39
F-A		F1 30	B	8-AC-1A-ACS-21	FULL BOX,GANG C-44, S-29	C-39
F-A		F1 30	A	8-AC-1A-ACH-199	PLATE, 3-BOLT	C-39
F-A		F1 30	A	8-AC-1A-ACH-201	ROD & CLEVIS	C-39

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CAT.	4TH INT PERIOD	ITEM NO.	TYPE	COMPONENT	DESCRIPTION	ISO NO.
F-A		F1.30	A	8-AC-1A-ACH-463	STRUT, 3-BOLT	C-39
F-A		F1 30	A	8-AC-2-ACS-323	STRUT, 3-BOLT, TURNBUCKLE	C-39
F-A		F1.30	A	8-AC-2-ACS-75	STRUT, 3-BOLT	C-39
F-A		F1 30	B	8-AC-2-ACH-26	TRUNNION	C-39
F-A		F1.30	B	8-AC-2-ACH-27	I-BEAM, U-BOLT	C-39
F-A		F1 30	A	8-AC-2A-ACS-333	STRUT, 3-BOLT, TURNBUCKLE	C-44
F-A		F1.30	A	8-AC-2A-ACH-28	ROD & CLEVIS	C-44
F-A		F1.30	A	8-AC-2B–ACS-29A	STRUT, 3-BOLT, LUGS	C-44
F-A		F1.30	B	8-AC-2B-ACS-30	WELDED SADDLE	C-45
F-A		F1.30	A	8-AC-2B-ACS-31	STRUT, 3-BOLT, LUGS	C-45
F-A	2	F1.30	A	8-AC-2B-ACH-194	STRUT, U-BOLT	C-44
F-A	2	F1.30	A	8-AC-2B-ACS-28	STRUT, U-BOLT, TURNBUCKLE	C-44
F-A		F1 30	B	8-AC-2B-ACS-29	FULL BOX SUPPORT, 2 GANG C-39, S-	C-44
F-A		F1.30	A	8-AC-2B-ACS-30A	PLATE, 3-BOLT	C-45
F-A		F1.30	A	8-AC-2B-ACS-388	STRUT, 3-BOLT	C-45
F-A		F1.30	A	8-AC-2B-ACH-196	TRAPEZE, U-BOLT, DUAL ROD	C-44
F-A		F1.30	A	8-AC-2B-ACH-198	STRUT, 3-BOLT	C-44
F-A		F1.30	A	8-AC-2B-ACH-200	TRAPEZE, U-BOLT, DUAL ROD	C-45
F-A		F1.30	A	8-AC-2B-ACH-203	ROD & CLEVIS	C-45
F-A		F1.30	B	8-AC-2B-ACH-30	I-BEAM, U-BOLT, 2 GANG	C-44
F-A		F1.30	A	8-AC-2B-ACH-468	STRUT, 3-BOLT	C-44
F-A		F1.30	B	8-AC-2B-ACS-27	3/4 BOX SUPPORT, 2 GANG C-39, S-17	C-44
F-A		F1.30	A	8-FW-1-FWS-108	STRUT, 3-BOLT	C-17
F-A		F1.30	A	8-FW-1-FWS-25	STRUT, 3-BOLT, TURNBUCKLE	C-17
F-A		F1.30	B	8-FW-1-FWS-54	FULL BOX, LUGS	C-18
F-A	3	F1.30	A	8-FW-1-FWS-59	STRUT, 3-BOLT, TURNBUCKLE	C-18
F-A		F1.30	B	8-FW-1-FWH-119	PEDESTAL, U-BOLT	C-18
F-A		F1.30	B	8-FW-1-FWH-120/FWS-57	PEDESTAL, U-BOLT,RIGID,T/B	C-18
F-A		F1.30	B	8-FW-1-FWH-121	PEDESTAL, U-BOLT	C-18
F-A		F1.30	A	8-FW-1-FWH-9	STRUT, 3-BOLT	C-17