

**SOUTHERN NUCLEAR OPERATING COMPANY
MATERIALS AND INSPECTION SERVICES**

VOLUME 2

CLASS 1, 2, AND 3 COMPONENTS

FOURTH TEN-YEAR INSERVICE INSPECTION PLAN

E. I. HATCH NUCLEAR PLANT

UNIT 1

REVISION 1

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REVISION 1

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**HATCH UNIT 1 FOURTH INTERVAL EXAMINATION PLANS
INTRODUCTION**

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HATCH UNIT 1 FOURTH INTERVAL ISI PLAN

CLASS 1 COMPONENTS

SCOPE OF EXAMINATIONS

Per IWA-1400 of the ASME Section XI Code, the Owner is responsible for determining the appropriated Code Class, for identifying the system boundaries for each class of component subject to examination, and for identifying the components exempt from examination. This requirement is met by the following:

Appropriate Code Class	The determination of Class 1 components is made by Design Modifications and designated on the ISI Boundary Diagrams. These Boundary Diagrams are controlled by Design Modifications.
System Boundaries	The system boundaries for Code Class 1 are designated on the ISI Boundary Diagrams.

EXAMINATION REQUIREMENTS

The examination requirements for the Class 1 components identified on the Boundary Diagrams are defined in IWB-2500 for each examination category. Categories in the 2001 Edition of Section XI with Addenda through 2003 are:

- Category B-A Pressure Retaining Welds in the Reactor Vessel
- Category B-B Vessels other than the Reactor Vessel (Not Applicable)
- Category B-D Full Penetration Welded Nozzles in Vessels
- Category B-F Pressure Retaining Dissimilar Metal Welds
- Category B-G-1 Pressure Retaining Bolting Greater than 2" Diameter
- Category B-G-2 Pressure Retaining Bolting 2" and Less in Diameter
- Category B-H Integral Attachments for Vessels
- Category B-J Pressure Retaining Welds in Piping
- Category B-K Integral Attachments for Piping, Pumps, and Valves
- Category B-L-1 Pressure Retaining Welds in Pump Casings (Not Applicable)
- Category B-L-2 Pump Casings
- Category B-M-1 Pressure Retaining Welds in Valve Bodies (Not Applicable)
- Category B-M-2 Valve Bodies
- Category B-N-1 Interior of Reactor Vessel
- Category B-N-2 Integrally Welded Core Support Structures/Interior Attachments
- Category B-N-3 Removable Core Support Structures
- Category B-O Pressure Retaining Welds in Control Rod Housings
- Category B-P Pressure Testing

These examination requirements are not applicable to components exempt from examination per IWB-1220. Components exempt from examination are only subject to the pressure testing requirements. (See the Exemptions Section below for more detail).

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

EXEMPTIONS

IWB-1220 defines the components that are exempt from the examination requirements of IWB-2500. *Per 10 CFR 50.55a(b)(2)(xi), licensees must use IWB-1220 of the 1989 Edition of Section XI, in lieu of the 2001 Edition of Section XI with Addenda through 2003.* IWB-1220(a) of the 1989 Edition states that, “ components that are connected to the reactor coolant system and part of the reactor coolant pressure boundary and that of such size and shape so that upon postulated rupture the resulting flow of coolant from the reactor coolant system under normal plant operating conditions is within the capacity of makeup system which are operable from on-site emergency power”. In determining the size of the liquid and steam lines excluded from NDE examination, liquid lines were defined as those that penetrate the RPV below the normal water level and steam lines as those which penetrate the RPV above the normal water level.

GE Nuclear Energy Report GE DRF Number B11-00788 was used for the 3rd Interval exemptions. This report used RCIC, CRD, and Condensate Makeup to the condenser as the makeup system and calculated. The same methodology will be used for the 4th Interval; however, Condensate Make-up to the main condenser will be eliminated as a make-up source because the condensate pumps are not supplied by the diesel generators. Without Condensate Make-up, the reactor coolant makeup is RCIC (360 GPM) and CRD (60 GPM) for a total of 420 GPM. The basic formulae for a leak rate at 1050 psi is:

$$\text{Inside Diameter of a Water Line} = \frac{(\text{Square Root of the total makeup flow})}{18.799}$$

Inside Diameter of a Steam Line = 2 times the value of a water line

The square root of 420 is 20.494. Therefore, for water the inside diameter exempted is 1.09” and for steam the inside diameter exempted is twice the value of water or 2.18”. Per Piping Specification (A-11000), there are six Class 1 piping specifications – DBA (Schedule 160), DCA (Schedule 80), DLA (Schedule 160), EAA (Schedule 80), EBA (Schedule 160), and ELA (Schedule 160). After evaluation of the inside diameter for these Piping Specifications it was determined that the following exemptions may be applied.

IWB-1220(a) EXEMPTIONS

- NPS 1” and smaller for Schedule 80 and Schedule 160 water lines.
- NPS 2” and smaller for Schedule 80 steam lines and NPS 2.5” and smaller for Schedule 160 steam lines.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Previously, per GE DRF Number B11-00788 (including Condensate Makeup to the condenser), the exemption was 2.5" for water lines and 5.0" for steam lines. The following P&IDs were reviewed to determine if there are lines that were previously exempted but that are not exempt per the new IWA-1220(a) exemptions.

H-16061	Standby Liquid Control (SLC) System
H-16062	Nuclear Boiler System Sheet 1
H-16063	Nuclear Boiler System Sheet 2
H-16064	CRD System Sheet 1
H-16065	CRD System Sheet 2
H-16066	Recirculation System Sheet 1
H-16067	Recirculation System Sheet 2
H-16068	Recirculation System Sheet 3
H-16145	Nuclear Boiler System Sheet 3
H-16188	Reactor Water Cleanup System Sheet 1
H-16189	Reactor Water Cleanup System Sheet 2
H-16329	RHR System Sheet 1
H-16330	RHR System Sheet 2
H-16331	Core Spray System
H-16332	HPCI System Sheet 1
H-16333	HPCI System Sheet 2
H-16334	RCIC System Sheet 1
H-16335	RCIC System Sheet 2

The review indicated that the following lines needed to be added to the 4th Interval scope:

- The 2" socket-welded RPV bottom head drain to the RWCU system as shown on P&ID H-16066 and P&ID H-16188. (Reference isometric H-16817). These welds are shown on ISI Figures A-40 and A-41 and are designated as 1B31-1RC-2DR-1 through 50.
- The 2" socket-welded drain line on each of the two loops as shown on P&ID H-16066. (Reference isometric S-01060). These welds are shown on ISI Figure A-43 and are designated as 1B31-1RC-2A-1 through 8 and 1B31-1RC-2B-1 through 8.
- The 1-1/2" socket-welded SLC line as shown on P&ID H-16061 and P&ID H-16063 (see isometrics H-16962 and H-16823). These welds are shown on ISI Figures A-44 and A-45. The socket welds are designated as 1C41-1SBLC-1.5-1 through 33 and the butt welds on the safe-end are designated as 1C41-1SBLC-2-1 through 3.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN

CLASS 1 COMPONENTS

- The butt-welds on the N16A&B instrument nozzle safe-end. The welds on the N16A&B safe-ends penetrate the RPV in water space. Per S-15277A, each safe-end was fabricated using two pieces of bar stock (one Inconel and one stainless steel). The two pieces were welded together creating a dissimilar metal Category B-F weld. The combined safe-end was bored out to 1-15/16" diameter. The OD was prepped such that the OD diameter at the end away from the RPV was 2-13/32". The tolerance was plus 0" and minus 1/32 ". Applying the tolerance, the OD is 2.375", which is the nominal diameter of a 2" pipe. It is assumed that there is a spool of 2" butt-welded pipe (containing three 2" Category B-J pipe welds) connected to each safe-end and then a butt-welded socket weld coupling that connects the 2" spool to the 1" EAA socket-welded piping. (See P&ID H-16063). For water, the IWB-1220(a) exemption is 1.09"; therefore, the butt welds are not exempt. Welds 1B11-1INST-2A-1 and 1B11-1INST-2B-1 are Category B-F welds and welds 1B11-1INST-2A-2 through 5 and 1B11-1INST-2B-2 through 5 are Category B-J welds.

Based on the 5/4/93 memo from Bill Cole to Kevin White along with the associated picture, access is available for the N16A Category B-F weld using access "from door above and to the right". N16B is not accessible. The memo states, "the depth of the bio-shield, air space, and insulation make the welds too deep for accessibility". A relief request will be needed for the Category B-F weld because all B-F welds must be examined per Code requirements.

Note: The N11A&B and N12A&B nozzles are the same size; however, they penetrate the RPV near the steam separator. Inventory lost as a result of a break in these welds would consist of steam; therefore, they are *exempt* since they are smaller than the IWB-1220(a) exemption for steam (2.18").

DEVIATIONS TO CLASS 1 ISI CODE REQUIREMENTS

IWB-2500 provides the examination requirements for Class 1 components. These Code requirements may be deviated from by:

- The use of NRC approved alternatives per 10 CFR 50.55a(a)(3).
- The use of NRC approved Relief Requests per 10 CFR 50.55a(g)(6) when an examination requirement by the Code is determined to be impractical.
- The use of Code Cases approved for use by the NRC through publication in Regulatory Guide 1.147.

Significant deviations from IWB-2500 Code requirements at HNP-1 include Code Cases, Relief Requests, Alternatives, and NRC Safety Evaluations as shown in Volume 1.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Code Case N-663

Code Case N- 663 provides that "... in lieu of the surface examination requirements for piping welds of Examination Category B- F (NPS 4 and larger), and B- J (NPS 4 and larger), surface examinations may be limited to areas identified by the Owner as susceptible to outside surface attack." The susceptibility criteria are listed in Table 1 of Code Case N- 663 for two types of degradation mechanisms. No Class 1 welds have been identified as being susceptible to outside surface attack. The basis is discussed below:

External (O. D.) Chloride Stress Corrosion Cracking of Austenitic Stainless Steel

For this cracking to be postulated per Code Case N-663, the:

- Operating temperature must be greater than 150⁰F, and
- the piping outside surface is within 5 pipe diameters of a probable leak, and
- the piping outside surface is covered with nonmetallic insulation that is not in compliance with Regulatory Guide 1.36 or equivalent requirements.

Evaluation: All of the austenitic piping within the ISI scope is within the reactor coolant pressure boundary. The original HNP-1 insulation was ordered prior to the development of Regulatory Guide 1.36; however, GE was cognizant of the potential for OD stress corrosion cracking due to halogens in the insulation. Therefore, GE Specification 22A2807, Rev. 0 which provided the design requirements for HNP-1 insulation (see S-15393, Version 1.0) stated, "Insulating material for use on stainless steel pipe is chosen because of its low chloride content and its corrosion inhibiting characteristics. It also required that leachable chlorides in the insulation be less than 300 ppm.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Other Outside Surface Initiated Mechanisms

Per Code Case N-663, items that are susceptible to an outside attack should be identified by a plant-specific service history review. This review should include plant-specific processes and programs that minimize chlorides and other contaminants.

Evaluation: Due to ID initiated IGSCC, numerous examinations of the austenitic welds and adjacent base material has been performed over the past 15+ years and no evidence of OD initiated stress corrosion cracking has been observed. (Note: 54 of the large bore piping welds are now covered with corrosion resistant overlay material). Additionally, ISI personnel associated with Hatch over the past 20 years have no knowledge of OD cracking in austenitic piping 4" diameter and over. (There has been OD originated cracking in some socket welds due to fatigue, but socket weld are not covered by Code Case N-663). Plant-specific processes and programs that minimize chlorides and other contaminants are:

- The SNC purchase specification for thermal Insulation for SS require insulation suppliers to provide material that meets the criteria of Regulatory Guide 1.36.
- Each Purchase Order imposes Reg. Guide 1.36 and ANSI N45.2 covering leach able properties and their acceptable levels for contact with Stainless Steel.
- The SNC Chemical Product Control Program provides procedure guidance for control of contaminants from chemical products to be used on site. Reference Hatch procedure 60 AC HPX-008-0 E. I. Hatch Chemical Control.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

ISI PLAN TABLES

Beginning in 2005, ISI Plan Tables are generated by the industry standard ScheduleWorks ISI software. The following tables were generated using a standard format provided by ScheduleWorks. It should be noted that the Scope/Method/Procedure field is for *information only*. This information may be changed during an outage by authorized IDDEAL software users at the site, but it will not be reflected in the ISI Plan until the plan is issued after the outage. When using these tables the user needs to understand the following symbols:

Scheduled	"s"	To schedule a component, place the identifier "s" in the required period/outage.
Completed	"c"	Upon exam completion for a scheduled component and by uploading the outage scope from IDDEAL back to ScheduleWorks, an "s" will be updated to completed "c".
Re-scheduled	"r"	Once a component has been scheduled, and you wish to reschedule to another outage, replace the scheduled "s" with a rescheduled "r" and enter an "s" in the new outage schedule.
Expanded Scope	"e"	To increase a work scope without taking code credit in the percentage calculations, enter an expanded "e".
Expanded Scope Completed	"E"	Upon exam completion of an expanded scope and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "E" the exam scope is completed.
Additional Scheduled	"a"	After an initial expanded work scope has been identified and you wish to add an increased expanded work scope, enter an additional expanded scope "a".
Additional Completed	"A"	Upon exam completion of an additional expanded scope and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "A" the exam scope is completed.
Partial	"p"	To track partially completed component examination requirements enter a partial "p".
Deferred	"d"	Once a component has been scheduled, and you wish to defer the inspection to another Outage, or Period, replace the scheduled "s" with a deferred "d" and enter an "s" in the new Outage.
Limited	"l"	To track limited component examinations or limited completions of requirements enter "l".
Multiple Scheduled	"b"	For multiple scheduling of the same component in successive Outages or Periods within an Interval enter "b".
Multiple Completed	"B"	Upon exam completion of a multiple scope in the same Interval and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "B" the exam scope is completed. This multiple scheduling scope will not count as completed for code calculations.
Tickler	"t"	To track exam scopes or use as reminder or identifier to confirm scheduling enter "t".
Successive Exams	"h"	Successive examinations.
Successive Exams Completed	"H"	Upon exam completion of a successive scope and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "H" the exam scope is completed.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-A - Class 1 RPV Item B1.11 and B1.12 Shell Welds

Configuration

The HNP-1 Reactor Pressure Vessel (RPV) has four Item B.11 circumferential welds - C-2, C-3, C-4, and C-5 and twelve Item B1.12 longitudinal welds - C-1-A, C-1-B, C-1-C, C-2-A, C-2-B, C-2-C, C-3-A, C-3-B, C-3-C, C-4-A, C-4-B, and C-4-C.

Background

1st interval RPV shell weld examinations were performed to the requirements of the 1974 Edition of Section XI (with Addenda through Summer 1975). Per the 1974 Edition only small portions of each longitudinal and circumferential weld were examined.

2nd interval RPV shell weld examinations were originally scheduled to be performed per the 1980 Edition of Section XI and would have required completion prior to the end of the 2nd interval. The 1980 Code required that one beltline circumferential weld and one beltline longitudinal weld be examined. 50.55a(g)(6)(ii)(A)(2) was added to 10 CFR 50.55a requiring that licensees augment their reactor pressure vessel examination by implementing once, as part of the inservice inspection interval in effect on September 8, 1992, the examination requirements for reactor vessel shell welds specified in Item B1.10 of Examination Category B - A, "Pressure Retaining Welds in Reactor Vessel," in Table IWB - 2500 - 1 of subsection IWB of the 1989 Edition of section XI (examination of all welds). However, per (A)(3) licensees with fewer than 40 months remaining in the inservice inspection interval in effect on September 8, 1992 could defer the augmented reactor vessel examination specified in (A)(2) to the first period of the next inspection interval. HNP-1, met this criteria; therefore, the augmented examinations were deferred until the 1st period of the 3rd interval.

Per 50.55a(g)(6)(ii) (A)(3) the deferred augmented examinations (which were scheduled for the 3rd Interval) could not be used as a substitute for the 2nd Interval reactor pressure vessel shell weld examinations scheduled for implementation during the inservice inspection interval in effect on September 8, 1992 (second interval). ***[Therefore, the 2nd interval 1980 Code examinations were performed in 1R16 (Spring 1996) using the 1 year Code extension provision of IWB-2412(b. 1 beltline region circ weld and 1 beltline region longitudinal weld were examined, thus completing the Second Interval shell weld examination requirements.***

Per 50.55a(g)(6)(ii) (A)(3) the deferred augmented examination could be used as a substitute for the reactor vessel shell weld examination normally scheduled for the inspection interval in which the deferred examination is performed. ***[HNP-1 elected to use this option; therefore, 3rd interval examinations were performed during the 1st period of the 3rd interval.]***

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Per 50.55a(g)(6)(ii) (A)(3), when the deferred augmented examination are used as a substitute for the normally scheduled reactor vessel shell weld examination, subsequent reactor vessel shell weld examinations must be performed during the first period of successive inspection intervals. [*Therefore, HNP-1 4th interval longitudinal weld examinations (including weld C-4-B if technology exists) are scheduled during the 1st period of the 4th interval. (1R23).*]

In September 1995, BWRVIP-05 was issued to the NRC defining a technical basis for eliminating the examination of the Item B1.11 circumferential welds. HNP elected to request approval to use BWRVIP-05 as a basis for the elimination of the circumferential weld examinations for the 3rd interval examinations.

Because of the complexity of the augmented regulations and the request for elimination of the circumferential weld examinations, a timeline is presented below for the 2nd and 3rd interval examinations shell weld examinations.

- By letter dated December 4, 1995, GPC requested that previous relief requests be re-instated for the shell welds such that above provisions could be utilized. This letter also clarified the position that the Second Interval shell weld examinations would be performed in the first period of the Third Interval. By letter dated February 14, 1996 the NRC agreed. Examinations were deferred until Spring 1999 refueling outage.
- Spring 1996 - Because the augmented examinations could not be used as a substitute for the reactor vessel shell weld examination scheduled for implementation during the inservice inspection interval in effect on September 8, 1992, 2nd interval 1980 Code examinations (1 beltline region circ weld and 1 beltline region longitudinal weld) were performed in 1R16 (Spring 1996) using the 1 year Code extension provision of IWB-2412(b). Second Interval shell weld examination requirements were thus completed.
- September 1997 – Augmented 1989 Section XI HNP-1 *longitudinal* weld examinations were performed from the OD during the 1st period of the 3rd interval (1R17). These examinations were credited as 3rd interval examinations as allowed by 50.55a(g)(6)(ii) (A)(3). OD examinations were performed on the accessible portions of C-1-A, C-1-B, C-1-C, C-2-A, C-2-B, and C-2-C longitudinal shell welds. Circumferential welds were not examined anticipating approval of BWRVIP-05.
- By letter dated July 28, 1998 the NRC issued their generic safety evaluation for BWRVIP-05 with conditions. Note: A supplement to the safety evaluation was added by NRC letter dated March 7, 2000.
- By letter dated October 16, 1998, SNC requested approval to delete the HNP-1 circumferential shell welds for the Spring 1999 outage (1R18) using BWRVIP-05 as the basis.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

- On November 10, 1998, the NRC issued Generic Letter 98-05 to inform licensees that they could request permanent (term of the original license) relief for the volumetric examination of circumferential shell welds.
- By letter dated December 2, 1998, SNC submitted an alternative to the augmented requirements to allow HNP-1 to:
 1. Permanently defer the volumetric examination of the circumferential welds based on the BWRVIP-05 requirements.
 2. Allow reduced coverage of certain welds.
 3. Use the GERIS-2000 system as the ultrasonic examination technology.
- By letter dated December 15, 1998, the VIP responded to the questions in the NRC's July 28, 1998 SE.
- By letter dated January 19, 1999, SNC altered the above request by amending coverage requirements showing both OD and ID anticipated coverage.
- By letter dated February 5, 1999, SNC responded to staff questions regarding shell weld coverage and also committed to notifying the NRC if coverage was not within $\pm 4\%$ of that shown in the January 19, 1999 letter.
- Spring 1999 - Augmented 1989 Section XI *longitudinal* examinations were performed from the ID during the 1st period of the 3rd (1R18). Examinations were performed on longitudinal shell welds C-2-B and C-2-C to obtain additional coverage beyond that obtained during the OD examinations. Examinations were performed, as the only coverage, on longitudinal shell welds C-3-A, C-3-B, C-3-C, C-4-A, C-4-B. There was no coverage on C-4-C due to a tie rod obstruction.. Circumferential welds were not examined anticipating approval of SNC's alternative to use BWRVIP-05.
- By letter dated March 11, 1999, the NRC issued their SE giving HNP-1 approval to *permanently* defer the examination of circumferential shell welds C-2, C-3, C-4, and C-5 and for the coverage of the longitudinal shell welds. (This was granted per 10CFR50.55a(3)(i); however, it was unclear as to what the NRC was granting). However, the NRC **still requires a volumetric examination of C-4-B** if SNC ever removes an obstructing tie rod or technology becomes available to perform the examination with the tie rod in place.
- By SNC letter dated April 26, 1999, the NRC was notified that the coverage on longitudinal shell weld C-3-A was 7.6% less than identified in the January 19, 1999 letter.
- By NRC letter dated March 7, 2000, the NRC issued the SE for VIP-05 with regard to the VIP letter dated July 28, 1998.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

- Due to the confusion in the March 11, 1999 safety evaluation, by SNC letter dated March 29, 2004 (as supplemented by letter dated September 13, 2004) SNC requested permanent approval for not examining the B1.11 circumferential shell welds via RR-38. Because the RAMA Code used for the neutron fluence had not been approved by the NRC, the NRC limited the duration of RR-38 until July 31, 2007.

Fourth Interval Examinations(Items B1.11 and B1.12)

4th Interval of the longitudinal shell welds (Item B1.12) are scheduled for 1R23 (February 2008) during the 1st period of the 4th interval as required. **RR-38 is in effect only until July 31, 2007 (to eliminate the circumferential shell weld examinations) and a new alternative will be required.**

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-A - Class 1 RPV Item B1.21 and B1.22 Head Welds

Configuration

The HNP-1 bottom head has 14 meridional welds BHD-A thru F, BHT-A thru H, circumferential dollar plate weld C-8, and circumferential weld C-7. The design is such that there is a support skirt welded to the bottom head just inside of weld C-7. There is no access to welds located inside the support skirt. Therefore, meridional welds BHD-A thru F are basically inaccessible except for a few inches of each weld that extends out past the skirt. Circumferential weld C-8 is completely inaccessible.

Background

During the 1st Interval, Examinations were performed to the requirements of the 1974 Edition of Section XI (with Addenda through Summer 1975). Per the 1974 Edition, 5% of each accessible circumferential weld and 10% of each accessible meridional weld were examined.

During the 2nd Interval, examinations were performed per the 1980 edition of Section XI, which required that one circumferential weld and one meridional weld be examined. Deferral of the examinations until the end of the 10-year interval was permissible, but not required. Second interval examinations were performed as follows.

- Bottom Head Circumferential Welds – Weld C-7 is the only accessible B1.21 circumferential weld. This weld was examined during the 3rd period (1993).
- Bottom Head Meridional Welds – Weld BHT-E was examined during the 3rd period (1993).
- Closure Head Circumferential Welds – Weld HC-1 is the only B1.21 circumferential weld. This weld was examined during the 2nd period (1990).
- Closure Head Meridional Welds – Weld HC-1-D was examined during the 1st period (1987).

During the 3rd Interval, examinations were performed as follows:

Bottom Head Welds

Examinations were required per the 1989 edition of Section XI which required examination of all circumferential and meridional welds. However, because of the support skirt configuration, meridional welds BHD-A thru F are basically inaccessible and weld C-8 is completely inaccessible. These welds were examined during the third period (1992) using Appendix VIII techniques.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Per the Unit 1 RPV Examination Plan prepared by GE, all of the HNP-1 meridional and circumferential welds were fabricated using the *Upjohn* process. In the Upjohn process, the weld beads are applied in the flat position with longitudinal progression along the weld seam such that weld beads are perpendicular to seam as opposed to weld beads running with the seam. Therefore, any slag-like construction flaws would be oriented longitudinally and only the minor axis of Upjohn weld flaws would have been seen during construction radiography. Thus, slag-like construction flaws may have been characterized as small inclusions.

GE SIL 651 was issued on August 7, 2003, to notify the industry of flaws detected during Appendix VIII qualified ISI examinations at Fermi in RPV seams that were welded using the Upjohn welding process. Pre-Appendix VIII ISI examinations at Fermi did not report these flaws; however, re-review of the previous examination results showed that indications were present in the earlier data and were the same size as reported for the Appendix VIII examinations. GE indicated that these flaws were not reported in previous examinations because the indication did not require recording under the pre-Appendix VIII rules. Subsequent implementation of Appendix VIII has increased the sensitivity of ISI techniques and has resulted in more stringent data recording requirements.

Closure Head Welds

Closure head welds are Upjohn welds but were examined in the 3rd interval prior to the implementation of Appendix VIII. Examinations completed during the 3rd interval were::

- Closure Head Circumferential Welds – Weld HC-1 is the only B1.21 circumferential weld. This weld was examined during the 2nd period (1R19); therefore, all 3rd interval examinations were complete.
- Closure Head Meridional Welds – Welds HC-1-A, HC-1-B, HC-1-C, and HC-1-D were examined during the 1st period (1R18). Welds HC-1-E, HC-1-F, HC-1-G, and HC-1-H were examined during the 2nd period (1R19). Therefore, all 3rd interval examinations were complete.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Fourth Interval Examinations

Bottom Head Circumferential Welds (Item B1.21) – C-7 and C-8

Examinations are required per the 2001 Edition of Section XI with Addenda through 2003. Deferral of the examinations until the end of the Interval is permitted. Weld C-7 is scheduled for examination during the 3rd Period of the 3rd Interval (1R22) to complete the 3rd Interval requirements; therefore 4th Interval examinations will be performed during the 3rd Period of the 4th Interval (1R27). [Weld C-8 is completely inaccessible and will require NRC approval.]

Closure Head Circumferential Welds (Item B1.21) – HC-1

Examinations are required per the 2001 Edition of Section XI with Addenda through 2003. Deferral of the examinations until the end of the Interval is permitted. Weld HC-1 is the only B1.21 circumferential weld on the closure head. This weld was examined during the 2nd period (1R19) of the 3rd Interval; therefore, the 4th interval examination is scheduled for 1R24.

Bottom Head Meridional Welds (Item B1.22) - BHD-A thru F and BHT-A thru H

Examinations are required per the 2001 Edition of Section XI with Addenda through 2003. Deferral of the examinations until the end of the Interval is permitted. These welds are scheduled for examination during the 3rd Period of the 3rd Interval (1R22) to complete the 3rd Interval requirements; therefore 4th Interval examinations will be performed during the 3rd Period of the 4th Interval (1R27). Note: Because of the support skirt configuration, meridional welds BHD-A thru F are basically inaccessible.

Closure Head Meridional Welds (Item B1.22) – HC-1-A through H

Examinations are required per the 2001 Edition of Section XI with Addenda through 2003. Deferral of the examinations until the end of the Interval is permitted. Welds HC-1-A, HC-1-B, HC-1-C, and HC-1-D were examined during the 1st period (1R18) of the 3rd Interval and are scheduled to be examined in the 1st Period of the 4th Interval (1R23). Welds HC-1-E, HC-1-F, HC-1-G, and HC-1-H were examined during the 2nd Period (1R19) of the 3rd Interval and are scheduled to be examined in the 2nd Period of the 4th Interval (1R24).

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-A - Class 1 RPV Item B1.30 and B1.40 RPV Flange Welds

Configuration

There is one RPV-to-flange weld and one closure head-to-flange weld.

Background

During the 1st interval, approximately 1/3rd of the RPV-to-flange circumference was examined each period and approximately 1/3rd of the closure head-to-flange circumference was examined each period.

During the 2nd interval, approximately 1/3rd of the RPV-to-flange circumference was examined each period and approximately 1/3rd of the closure head-to-flange circumference was examined each period.

During the 3rd Interval the following logic was used for examination of these welds.

These welds were not deferrable by Code because:

1. Partial examinations were not being performed from the flange face as allowed by footnote 3.
2. The deferral provision does not apply to units that examine RPV nozzles from the OD.

However, these two welds were the only non-deferrable welds in Category B-A, and per Relief Request RR-28 two components could be scheduled at any time during the interval; therefore, the welds were not included in IWB-2412(a) Code percentage calculations. 100% of the weld was examined during the 1st Period of the 3rd Interval (1R17) to re-zero the exams.

Fourth Interval Examinations

RPV Shell-to-Flange Weld (Item B1.30) – C-1

Examinations are required per the 2001 Edition of Section XI with Addenda through 2003. Deferral of the examinations until the end of the Interval is permitted per Note 5 of Category B-A, Table IWB-2500-1. One third of the examinations were performed each period in the second interval. 100% was subsequently performed during the 1st Period of the 3rd Interval (1R17) to re-zero the exams. 100% was then scheduled during the 1st period of the 4th Interval (1R22a).

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

RPV Head-to-Flange Weld (Item B1.30) – HC-2

Examinations are required per the 2001 Edition of Section XI with Addenda through 2003. Deferral of the examinations until the end of the Interval is permitted per Note 5 of Category B-A, Table IWB-2500-1. One third of the examinations were performed each period in the second interval. 100% was subsequently performed during the 1st Period of the 3rd Interval (1R17) to re-zero the exams. 100% was then scheduled during the 1st period of the 4th Interval (1R22a).

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-D - Class 1 Full-Penetration Nozzle to Vessel Welds

Configuration

There are 29 RPV nozzles with full-penetration welds with each nozzle requiring Section XI ultrasonic examinations of the weld and the inner radii for a total of 58 examinations. The N15 RPV drain nozzle is located inside the support skirt and is not accessible. The SE for RR-3 grants 3rd interval approval to not perform the required examinations for N15. Therefore, there are 56 examinations that must be scheduled and conducted per Code requirements.

Feedwater nozzle examinations have historically been covered by the requirements of Section XI and the augmented examination requirements of NUREG-0619 as amended by Generic Letter 88-11. Section XI requires examination of the nozzle-to-shell weld and inner radius once per 10-year interval. Because of cracking in the inner radius areas of other BWRs due to leakage around interference fit thermal sleeves, the HNP-1 interference fit thermal sleeves were replaced with triple-sleeve, double piston design. Per NUREG-0619 augmented examinations of the feedwater nozzle inner radius (and bore) for a triple-sleeve, double piston configuration are required every 2nd refueling outage. However, due to improved automated UT examination technology and lack of cracking in the newer thermal sleeve configurations, the frequency is now once per interval (*see "Feedwater Nozzle Augmented Requirements" later in this document for detailed discussion*).

Background

All *Feedwater* nozzles and inner radii were re-examined in the 1st period of the 3rd interval to enhance the scheduling of automated nozzle examinations. Per Footnote 2 of Table IWB-2500-1, Category B-D, at least 25% but not more than 50% (credited) of the 56 nozzle examinations were examined by the end of the first inspection period, and the remainder by the end of the inspection interval.

There are 56 examinations that must be scheduled and conducted per Footnote 2. During the 1st Period a total of 22 examinations were performed or 39%. The remainder of the examinations were completed during the 2nd and 3rd periods.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Fourth Interval Examinations

Examinations are required per the 2001 Edition of Section XI with Addenda through 2003. (Deferral of the examinations until the end of the Interval is not permitted because the deferral is for PWRs). Per Footnote 2 of Table IWB-2500-1, Category B-D, at least 25% but not more than 50% (credited) of the nozzle examinations shall be completed by the end of the first inspection period, and the remainder by the end of the inspection interval. Thirty-three percent of the examinations are scheduled in the 1st Period with the balance scheduled throughout the remainder of the 4th interval. Relief will be required for the N15 nozzle due to inaccessibility.

Note: Per NUREG-0619 augmented examinations of the feedwater nozzle inner radius (and bore) for a triple-sleeve, double piston configuration are required every 2nd refueling outage. However, due to improved automated UT examination technology and lack of cracking in the newer thermal sleeve configurations, the frequency is now Code frequency (see “Feedwater Nozzle Augmented Requirements” later in this document for detailed discussion).

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-E - Class 1 Partial Penetration RPV Welds

Category B-E includes 137 CRD partial penetration stub tube welds to the RPV and 7 partial penetration instrument nozzle welds to the RPV. These are:

1N10 SLC Nozzle (Sketch 1-BE-2)
1N11A, B Instrument Nozzles (Sketch 1-BE-1)
1N12A, B Instrument Nozzles (Sketch 1-BE-1)
1N16A,B Instrument Nozzles (Sketch 1-BE-1)
137 - CRD Penetrations – Partial penetration weld is on the inside of the RPV. (Sketch 1BE-3): Note: Listed as one set of examinations in Schedule Works.

Background

Table IWB-2500-1 of the 1989 Edition of Section XI requires that 25% of the welds be VT-2, visually examined during the 3rd Interval; however, examinations may be deferred until the end of the interval. Due to limited access, VT-2 examinations are performed indirectly each refueling outage (as allowed by IWA-5240) during the leakage and hydrostatic tests (Code Case N-498-1).

4th Interval

Not a Code Category in the 2001 Edition through the 2003 Addenda; therefore there are no requirements.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN

CLASS 1 COMPONENTS

Category B-F - Class 1 Dissimilar Metal Piping Welds (Less Than 4" NPS (B5.20))

Nozzle	Requirement	Evaluation
1B11\N10 Standby Liquid Control	Surface examination of Inconel Nozzle-To-304SS Safe End Inconel 182 weld and butter designated as: 1C41-1SBLC-2-1	This nozzle is located below the core support plate; therefore, any loss of inventory, as a result of a safe-end weld break, would consist of water. Per the 4 th Interval IWB-1220(a) exemption criteria, lines containing water that have an ID of 1.09" are exempt; however, per Sketch 1BE-2 this line (1C41-1SBLC-2-1) has an inside diameter of 1.915" and is <i>not exempt</i> from NDE requirements and <i>a Section XI surface examination is required</i> . The safe-end to nozzle was fabricated by welding two solid materials together and boring them out. (ID cold working was introduced; therefore, BWRVIP-27 recommends a complete UT exam of the dissimilar metal weld, the safe-end, and stainless weld from the safe-end side. See ISI Figure A-44. [Accessible per a 5/4/93 memo from K. White to B. Cole].
1B11\N11A&B Instrument Nozzles	No examination requirement for the Inconel Nozzle-To-304SS Safe End Inconel 182 weld and butter because <u>all welds are exempt on size</u> .	These instrument nozzles penetrate the RPV at Elevation 509" opposite the steam separator. Therefore, any inventory lost as a result of a safe-end weld break would consist of steam. Per the 4 th Interval IWA-1220(a) exemption criteria, lines containing steam that have an ID of 2.18" or less may be considered exempt. Per Sketch 1BE-1 the piping on each of these safe-ends has an inside diameter of 1.938"; therefore these welds <i>are exempt</i> . [Per BWRVIP-49, no additional exams are required; therefore no examinations will be performed except for a VT-2 examination during pressure testing].
1B11\N12A&B Instrument Nozzles	No examination requirement for the Inconel Nozzle-To-304SS Safe End Inconel 182 weld and butter because <u>all welds are exempt on size</u> .	These instrument nozzles penetrate the RPV at Elevation 586" opposite the top of the steam separator. Therefore, any inventory lost as a result of a safe-end weld break would consist of steam. Per the 4 th Interval IWA-1220(a) exemption criteria, lines containing steam that have an ID of 2.18" or less may be considered exempt. Per Sketch 1BE-1 this weld has an inside diameter of 1.938"; therefore these welds <i>are exempt</i> . . [Per BWRVIP-49, no additional exams are required; therefore no examinations will be performed except for a VT-2 examination during pressure testing].
1B11\N15 Bottom Head Drain	No examination because the Inconel Nozzle-To-304SS Safe End Inconel 182 weld and butter is inaccessible.	Bottom Head Drain. Inaccessible due to location inside support skirt. During the 3 rd Interval, this weld received a VT-2 examination instead of the Code required examination per NRC approved RR-6. A similar Relief request will be needed for the 4 th Interval.
1B11\N16A&B Instrument Nozzles	Surface exam of Inconel Nozzle-To-304SS Safe End Inconel 182 weld and butter designated as: 1C41-1SBLC-2A-1 1C41-1SBLC-2B-1	Each of the two instrument nozzles penetrate the RPV in the shroud annulus; therefore, any inventory lost as a result of a safe-end weld break would consist of water. Per the 4 th Interval IWA-1220(a) exemption criteria, lines containing water that have an ID of 1.09" or less may be considered exempt; however per ISI Figure A-42, the dissimilar metal joint has an inside diameter of 1.938"; therefore it is <i>not exempt</i> and <i>a Section XI surface examination is required</i> . Per BWRVIP-49, no additional exams are required beyond those required by ASME XI. Welds located on the N16A safe-end are accessible; however, welds on the N16B safe-end are not accessible per 5/4/93 memo from Kevin White to Bill Cole. A Relief Request will be needed for the 4 th Interval for weld 1C41-1SBLC-2B-1 as shown on Figure A-42.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-F - Class 1 Dissimilar Metal Piping Welds (Continued)

NPS 4" and Larger (B5.10)

- Scope:
- 10 – Recirc. Inlet Safe-End to Nozzle Welds
 - 2 - Recirc. Outlet Nozzle to Safe End Welds
 - 2 – Jet Pump Instrument Nozzle to Safe End Welds
 - 2 - Core Spray Safe-End to Nozzle Welds
 - 3 – RHR Valve to Pup-Piece Welds
 - 1 – CRD Return Line Nozzle to Cap

The weld configuration generally consists of Inconel buttered carbon steel to 304 stainless steel with Inconel 182/82 filler metal. Stress improvement to reduce the residual welding stresses has been performed on each of these welds using either Induction Heating Stress Improvement (IHSI) or Mechanical Stress Improvement (MSIP). Generic Letter 88-01 and NUREG-0313 classify these welds as Category C welds. Based on BWRVIP-075, if: (1) an effective stress improvement has been performed, (2) there is a second crack mitigator (e/g. hydrogen water chemistry) and qualified examinations have been performed, then only 10% of Category C welds need to be examined. The implementation of BWRVIP-075 is described in detail in the BWRVIP-075 section of this bases document. Because only 10% of Category C welds is required, the 100% ASME Section XI examination requirement is not being met.

Relief has been requested from the NRC per ISI-ALT-3 to continue to eliminate the B-F welds from Code required percentages and frequency that originated with RR-39 in the 3rd Interval. ISI-ALT-3 was approved by the NRC by safety evaluation dated 12/22/05.

SEE CATEGORY X-BF FOR VIP-075 REQUIREMENTS

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-G-1 – Class 1 Pressure Retaining Bolting Greater Than 2” in Diameter

Configuration

The HNP-1 B-G-1 scope consists of:

RPV Bolting

- 52 RPV Nuts (Item B6.10) - For the 4th Interval, the 2001 Edition of the Section XI Code through the 2003 addenda requires a visual (VT-1) of the nuts. The Code allows deferral of these examinations until the end of the interval; however, this was not used. Instead, during the 3rd Interval scheduling was performed per Code Case N-598. Continuing the pre-established pattern, 33% is scheduled for the 1st Period, a cumulative total of 66% is scheduled by the end of the 2nd Period, and 100% by the end of the 3rd Interval.
- RPV Studs (Item B6.30) – Per Code Case N-307-3, the surface examinations required when studs are removed was eliminated. Without the surface examination requirement, there is no difference between Item B6.20 and item B6.30; therefore, all studs are treated as Item B6.20.
- 52 RPV Studs (Item B6.20) - During the 4th Interval, examinations will be performed per Code Case N-307-3 and the 2001 Edition of the Section XI Code through the 2003 addenda. The Code allows deferral of the examinations until the end of the interval and Code Case N-307-3 defines the examination volume. During the 3rd Interval, per the provisions in Relief Request RR-35 (granted by Safety Evaluation dated July 2, 2002), all 52 studs were examined during 3rd Period (1R21). Therefore, during the 4th Interval, examinations are scheduled during the 3rd Period.
- 52 RPV Threads in Flange (Item B6.40) - During the 4th Interval, examinations will be performed per the 2001 Edition of the Section XI Code through the 2003 addenda. The Code allows deferral of the examinations until the end of the interval. During the 3rd Interval, per the provisions in Relief Request RR-35 (granted by Safety Evaluation dated July 2, 2002), all 52 were examined during 3rd Period (1R21). Therefore, during the 4th Interval, examinations are scheduled during the 3rd Period.
- 52 RPV Washers (Item B6.50) – For the 4th Interval, the 2001 Edition of the Section XI Code through the 2003 addenda requires a visual (VT-1) of the washers. The Code allows deferral of these examinations until the end of the interval; however, during the 3rd Interval scheduling was performed per Code Case N-598. Continuing the pre-established pattern, 17 are scheduled for the 1st Period, 17 are scheduled during the 2nd Period, and 18 are scheduled during the 3rd Interval.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

- RPV Bushings (Item B6.50B) - During the 4th Interval, examinations will be performed per the 2001 Edition of the Section XI Code through the 2003 addenda. The Code allows deferral of the examinations until the end of the interval. The bushings are threaded inserts that are threaded into the threaded flange hole. The RPV studs are then threaded into the bushings. Studs 32, 33, 35, and 35 are normally removed during refueling outages and the bushings should be VT-1 examined one time during the 10-year interval. Per Intent Inquiry IN04-009 (BC04-1733), bushings are not required to be examined unless the studs are removed. *Note: If other studs are removed examine the associated bushings.*

Examinations are scheduled as shown in the attached Hatch Unit No. 1 Code 4th Interval Compliance Scheduling Summary.

RC Pumps

- 32 RC Pump Bolts (Item B6.180 - 16 per pump) – During the 4th Interval, examinations will be performed per the 2001 Edition of the Section XI Code through the 2003 addenda. The Code requires that the bolts on one of the two pumps be volumetrically examined during the 10-year interval. Deferral until the end of the interval is permitted. During 1R20 (2nd period), the 16 studs on Pump B were volumetrically examined; therefore, 4th Interval examinations will be scheduled for the 2nd Period on Pump B. *Note: If disassembled, Footnote 7 allows a surface examination meeting the acceptance standards of IWB-3515 to be used in lieu of the volumetric examination.*
- Flange Surfaces, when disassembled (Item B6.190) - During the 4th Interval, examinations will be performed per the 2001 Edition of the Section XI Code through the 2003 addenda. Per Footnote 4, visual examinations are only required if a pump is disassembled and subsequently examined per Category B-L-2 requirements. Examination is required only once during the interval. Examinations
- 32 RC Pump Nuts (Item B6.200 - 16 per pump) - During the 4th Interval, examinations will be performed per the 2001 Edition of the Section XI Code through the 2003 addenda. Per Footnote 4, visual examinations are only required if a pump is disassembled and subsequently examined per Category B-L-2 requirements. Examination is required only once during the interval.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-G-2 – Class 1 Pressure Retaining Bolting Less Than or Equal to 2” in Diameter

Code Percentages

The B-G-2 scope consists of the following bolting. Details are provided below.

1. CRD Flange Bolting
2. Piping Flange Bolting
3. Valve Bolting
 1. CRD Flange Bolting (Item B7.80) – The 2001 Edition of the Section XI Code through the 2003 addenda eliminated this Code Item. *However, per 10 CFR 50.55a(b)(2)(xxi)(B) the NRC requires that reused bolting be examined whenever the CRD housing is disassembled.*
 2. Piping Flange Bolting (Item B7.50) – During the 4th Interval, examinations will be performed per the 2001 Edition of the Section XI Code through the 2003 addenda. Per Footnote 3, the examination is required only when a flange is disassembled. Additionally, examinations may be limited to one bolted connection among a group of bolted connections that are similar in design, size, function, and service. Examination of a bolted connection is required only once during the interval, regardless of the number of times the bolted connection is disassembled.
 3. B-G-2 Valve Bolting (Item B7.70) – (Does not include any flange bolting used to connect the valve to the piping). During the 4th Interval, examinations will be performed per the 2001 Edition of the Section XI Code through the 2003 addenda. Per Footnote 2, examination of pressure-retaining valve bolting is required only when Category B-M-2 visual exams are performed on the inside surface of the valve (see Interpretation XI-1-98-22). B-M-2 examinations are only required at HNP when a valve is disassembled for maintenance or repair, and only one valve in a like group of valves requires examination, regardless of how many valves are disassembled during the interval. Therefore, scheduling of valve bolting is not required. Valve bolting and the associated valve group are listed below:

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN **CLASS 1 COMPONENTS**

Valve Bolting	Valve Group Number
1B21-F010A&B and F032A&B VB	1
1B21-F011A&B VB	2
1B21-F013A, B, C, D, E, F, G, H, J, K, L VB	3
1B21-F022A thru D and F028A thru D VB	4
1B31-F023A&B and F031A&B VB	5
1E11-F008 and F009 VB	6
1E11-F015A&B VB	7
1E11-F067 VB	8
1E11-F050A&B VB	9
1E11-F060A&B VB	10
1E21-F004A&B and F005A&B VB	11
1E21-F006A&B VB	12
1E21-F007A&B VB	13
1E41-F006 VB	14
1E41-F002 and F003 VB	15
1G31-F001 and F004 VB	16
1G31-F027 VB	17

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-J - Class 1 Piping Welds

Background

During the 1st Interval welds were selected and examined per Category B-J of Section XI of the ASME Code in the 1974 Edition and addenda through the Summer 1975. This Code requires a selection of 25% of the B-J welds with the intent that a different 25% be examined each 10-year interval. During the 2nd Interval, the 1980 Code required a stress based selection of welds. In response, the NRC developed 10CFR 50.55a(b)(2)(ii), which states, "If the facility's application for a construction permit was docketed prior to July 1, 1978 (*HNP-1 was docketed prior to this date*), the extent of examination for Code Class 1 pipe welds may be determined by the requirements of Table IWB- 2500 and Table IWB- 2600 Category B-J of Section XI of the ASME Code in the 1974 Edition and addenda through the Summer 1975 Addenda or other requirements the Commission may adopt." The Construction Permit for Hatch Unit No. 1 was docketed prior to July 1, 1978.

The 2nd Interval ISI Program submitted to the NRC stated, "The extent of examination of Code Class 1 (Category B-J) was determined by the requirements of Table IWB- 2600 Category B-J of Section XI of the ASME Code in the 1974 Edition with addenda through the Summer 1975 Addenda as allowed by 10 CFR 50.55a. In addition, terminal ends and high stress welds were chosen when practical to upgrade the overall selection criteria".

The 3rd Interval ISI Program submitted to the NRC stated, "As allowed by 10CFR50.55a(b)(2)(ii), Category B-J welds to be examined in Interval 2 were also selected to 1974/S75. In keeping with the later Code philosophy of re-examining components in subsequent intervals, essentially the same 25% scope was picked for Interval 2 as was picked for Interval 1. The scope was adjusted, as a conservative measure, by selecting terminal ends and high stress welds to the extent practical. As allowed by 10CFR50.55a(b)(2)(ii), the scope of B-J welds for Interval 3 will be essentially the same 25% scope as for Interval 2 (accordingly, the footnotes of Table IWB-2500-1 will not be used). Variations may be made to account for ALARA goals and limited access as long as the required number of welds are examined."

Relief was received from the NRC (See RR-38) during the 3rd Interval to not meet the following 1989 Code requirements for stainless steel welds and dissimilar metal welds. In lieu of these Code requirements the schedules and frequencies specified in the

BWRVIP-75 were used for stainless steel and dissimilar metal welds. Therefore, the only Category B-J welds that were scheduled per Section XI (at the end of the interval) were the carbon steel welds.

- IWB-2412 requires that except for the examinations that may be deferred until the end of the inspection interval, examinations shall be completed in accordance with

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN

CLASS 1 COMPONENTS

Table IWB-2412-1. Table IWB-2412-1 defines a minimum and maximum number of examinations to be performed each inspection period.

- IWB-2500 requires components to be examined as specified in Table IWB-2500-1. The *Extent and Frequency of Examination* requires that all Category B-F welds be examined and that a minimum of 25% of Category B-J welds be examined over the ten-year ISI interval.

4th Interval

ISI-ALT-3 was submitted to the NRC to continue the process initiated by RR-39; therefore, those welds covered by the provisions of BWRVIP-075 are not included as Category B-J. (See Category XB-J).

As allowed by 10CFR50.55a(b)(2)(ii), Category B-J welds to be examined in Interval 4 will be those selected during Interval 3. However, the scope will again be slightly adjusted to enhance the examination population based on guidance from Code Case N-609. Code Case N-609 provides an alternative to Code stress-based criteria for the selection of welds and was approved for use by the NRC in Revision 14 to Regulatory Guide 1.147. This code case has three features that were considered as possible enhancements. These features and any changes to 3rd Interval scope are addressed below:

1. Select all terminal ends. (Note: *Terminal ends* are the extremities of piping runs that connect to vessels, pumps, valves, piping systems, structures, or pipe anchors, each which acts as a rigid restraint or provides at least 2 degrees of restraint to piping thermal expansion. (The problem with examining all of the terminal ends is that, in many cases, there are severe coverage restrictions). The HNP terminal ends are evaluated below and any changes to the scope were identified.
 - There are four feedwater nozzles and four main steam nozzles where the weld to the nozzle is a terminal end. Five of these eight welds were examined during the 3rd Interval. No change will be made for the 4th Interval.
 - There are 12 containment penetration with a weld to the flued head located inside the penetration and one located outside the penetration. This is an anchor point for stress analysis, but is not the extremity of the piping run; therefore, it is not considered a terminal end. Four were examined in the 3rd Interval. No change will be made for the 4th Interval.
 - There are approximately 19 cases where a smaller line terminates at a branch connection or terminates at a tee on a larger line. For the connection of a piping run to a piping run, there is a rule-of-thumb for coupling or de-coupling piping runs when performing a stress analysis. This is, *when the ratio of the piping diameters is 10 to 1 or greater, the connection is considered to be a terminal end*. None of the 19 cases had a 10/1 or greater ratio; therefore, there are no terminal

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

ends in this population. A total of 5 of the 19 were examined during the 3rd Interval. For the 4th Interval, no additional welds were selected.

2. Select dissimilar metal welds not covered under Category B-F. There are no Category B-J dissimilar metal welds. Dissimilar metal welds greater than or equal to 4" in diameter are designated as Category XB-F and are examined per VIP-075 (see VIP-075 section). Those under 4" are designated as Category B-F.
3. Select additional piping welds, such that the total number of circumferential butt welds (or branch connection or socket welds) selected for examination equals 25% of the total number of nonexempt circumferential butt welds (or branch connection or socket welds) in the reactor coolant piping system. The examinations were prorated among the Class 1 systems on the number of nonexempt welds in each system. Additionally, within each system, examinations were distributed between line sizes prorated, on the number of nonexempt welds in each line size. Because this was an enhancement, actual proration was not met; however, as shown in the below table, welds selected are spread throughout the systems and different line sizes.

Size	System	No. of Welds	Welds Selected For Examination	Percentage
12"	FW	52	13	25%
18"	FW	25	7	28%
4"	MS	1	0	0%
24"	MS	93	24	26%
8"	MS	22	6	27%
20"	RHR	12	3	25%
24"	RHR	22	6	23%
9"	RHR	2	1	50%
10"	CS	40	9	23%
10"	HPCI	21	5	24%
14"	HPCI	12	3	25%
3"	HPCI	3	1	33%
3"	RCIC	2	0	0%
4"	RCIC	32	8	25%
6"	RCIC	2	1	50%
4"	RWCU	3	1	33%
3"	RWCU	1	0	0%
TOTAL		345	88	25%

As discussed above in the *Exemptions Section*, the IWB-1220(a) exemption criteria changed which required adding numerous small diameter welds to the 4th Interval examination population. A summary of these welds is shown below.

SMALL DIAMETER CATEGORY B-J WELDS ADDED FOR THE 4TH INTERVAL

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

(Shown as Category NB-J in Schedule Works)						
Size	Fig.	Item	System	No. of Welds	Welds Examined	Percentage
2"	A-42	NB9.21	1B11	8	2	25%
2"	A-40 A-41	NB9.40	1B31	50	12	24%
2"	A-43	NB9.40	1B31	16	4	29%
2"	A-43	NB9.32	1B31	2	0	0%
2"	A-44	NB9.21	1C41	2	1	50%
1.5"	A-44	NB9.40	1C41	3	1	33%
1.5"	A-45	NB9.40	1C41	30	9	29%
TOTAL				111	29	26%

These examinations are not deferrable until the end of the interval per the 1989 Code; therefore, the scheduling requirements of Code Case N-598 are required.

SEE CATEGORY X-BJ FOR VIP-075 REQUIREMENTS

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-K - Class 1 Welded Attachments

Background

In lieu of the 3rd Interval 1989 Code requirements for welded attachments, HNP examined Class 1 welded attachments per the requirements of Code Case N-509, which was originally adopted for use at HNP through relief request RR-4. Relief Request RR-4 was superseded via the endorsement of Code Case N-509 in Revision 12 to Regulatory Guide 1.147. Revision 13 subsequently annulled the Code Case; however, it was used until the end of the 3rd Interval. Revision 12 had a condition for use, in that, at least 10% of each Item No. was required to be examined (for those items not already requiring 100%).

Beyond those requirements established below, examination of an integrally welded attachment is required if the associated component support member has deformation identified during operation, refueling, maintenance, examination, inservice inspection, or testing. An example of component support deformation is broken parts, bent parts, or pulled out parts.

Additionally, Relief Request RR-41 which adopted Code Case N-700 was submitted (and approved by the NRC) during the 3rd Interval to effectively eliminate the examination of the stabilizer brackets.

4th Interval

Examinations are required per the 2001 Edition of Section XI with Addenda through 2003, as modified by 10 CFR 50.55a(b)(2)(xxi)(C). Deferral of the examinations until the end of the Interval is not permitted.

Item B10.10 – Pressure Vessels: The only Class 1 pressure vessel is the reactor pressure vessel (RPV). With a single vessel, the Code requires the examination of all welded attachments. The HNP-1 RPV is supported by a reactor skirt (weld C-6) and has four stabilizer brackets (SB1 – SB4) welded to the shell to prevent the RPV from tilting during a seismic event. The inside surface of the support skirt weld (C-6) is totally inaccessible for examination. Note: The RPV head has lifting lugs which are not considered to be in the Examination Category B-K scope. The basis for this determination is that Examination Category B-K, Table 2500-1, Footnote 1 indicates that examination is limited to those attachments providing component support per NF-1110. NF-1110 indicates that this applies only to metal elements which transmit loads between components and the building structure.

Per 10 CFR 50.55a(b)(2)(xxi)(C), the provisions of Table IWB-2500-1, 1995 Addenda must be applied to Item B10.10. The 1995 addenda allows a volumetric examination of the skirt weld if the skirt weld configuration is that shown in Figure IWB-2500-14. For HNP-1, the configuration does not match Figure 14; therefore, HNP will use Code Case

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

N-323-1 for the examination of the support skirt weld. Code Case N-323-1 allows a surface examination from the accessible surface (outside) as an alternative if the inside surface is inaccessible.

Per footnote 4 of the Code, when there are multiple vessels, only one welded attachment weld on one of the vessels requires examination. However, when there is a single vessel (such as the RPV), footnote 4 does not apply and all of the welded attachment welds require examination. Code Case N-700 was developed to align the examination requirements for single vessels with those for multiple vessels. SNC proposes using Code Case N-700 to select RPV welded attachments for examination in lieu of using the Code Case N-509 footnote 4 requirements.

Code Case N-700 states that, “For single vessels, only one welded attachment shall be selected for examination. The attachment selected for examination on one of the multiple vessels or the single vessel, as applicable, shall be an attachment under continuous load during normal system operation, or an attachment subject to a potential intermittent load (seismic, water hammer, etc.) during normal system operation if an attachment under continuous load does not exist.” The examination of the HNP-1 RPV skirt weld will satisfy Code Case N-700 examination requirements because this weld is under a continuous load during normal system operation, while the stabilizer bracket welds are potentially loaded only during a major seismic event.

MONITOR THE INCLUSION OF N-700 INTO REGULATORY GUIDE 1.147 OR DEVELOP AN ALTERNATIVE (SEE 3rd INTERVAL RR-41)

Item B10.20 – Piping: Per the Code, 10% of the piping welded attachments must be examined. There are 79 sets of Class 1 attachments requiring a total of eight sets of examinations be performed.

Note: There are three types of containment penetrations for HNP-1. (See Section 5.2 of the FSAR for description of penetrations). Only one type, where thermal movements are small, has an attachment weld to the pressure boundary of the pipe. This type of penetration has not been found in the Class 1 scope. The other penetrations involve flued heads and expansion bellows. In these cases, the attachment welds are located outside the “1t” boundary, where “t” is the thickness of the pressure-retaining pipe (See Figures IWB-2500-13, 14, and 15 for “t”). Therefore, there are no attachment welds at the containment penetrations in the B10.20 scope.

Item B10.30 – Pumps: Per the Code, 10% of the welded attachments must be examined. There are 3 Class 1 attachments on each of the two pumps requiring a total of one examination to be performed.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-L-1 – Pressure Retaining Welds in Pump Casings

NA

Category B-L-2 – Pump Casings

There are two Class 1 pumps at Hatch – the Recirculation System Pumps. The following 2001 Edition through the 2003 Addenda Code requirements apply.

1. If one of the two pumps is disassembled for maintenance or repair, a VT-3 examination of the accessible internal pressure boundary should be performed to the extent practical. Examinations are limited to one pump in the 10-year interval; therefore, if one of the two pumps is examined there are no other examination requirements for the 10-year interval.
2. There is not a requirement to disassemble a pump in order to perform the VT-3 examination.
3. There is not a requirement to completely disassemble a pump that has been partially disassembled for maintenance or repair. For a partially disassembled pump, examine the accessible portion of the internal pressure boundary.
4. If a pump has been partially disassembled and VT-3 examined and subsequently one of the pumps is disassembled such that a more extensive examination is allowed, re-perform a VT-3 examination on the disassembled pump.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-M-1 – Pressure Retaining Welds in Valves

NA to Hatch.

Category B-M-2 – Valve Body Greater Than 4” NPS

Examinations (VT-3) are limited to one valve in each group of valves that are of the same size, constructional detail (e.g. globe), manufacturing method, and that perform similar functions in the system. For Hatch the groupings are:

Valves	Group No.
1B21-F010A&B and F032A&B	1
1B21-F011A&B	2
1B21-F013A, B, C, D, E, F, G, H, J, K, L	3
1B21-F022A thru D and F028A thru D	4
1B31-F023A&B and F031A&B	5
1E11-F008 and F009	6
1E11-F015A&B	7
1E11-F067	8
1E11-F050A&B	9
1E11-F060A&B	10
1E21-F004A&B and F005A&B	11
1E21-F006A&B	12
1E21-F007A&B	13
1E41-F006	14
1E41-F002 and F003	15
1G31-F001 and F004	16
1G31-F027	17

- If **one** of the valves is disassembled for maintenance or repair, a VT-3 examination of the accessible internal pressure boundary should be performed to the extent practical. Examinations are limited to one valve in the group in the 10-year interval; therefore, if one of the valves in a group is examined there are no other examination requirements for that group during the 10-year interval. There is not a requirement to disassemble a valve in order to perform the VT-3 examination.
- There is not a requirement to completely disassemble a valve that has been partially disassembled for maintenance or repair. For a partially disassembled valve, examine the accessible portion of the internal pressure boundary (see Interpretation XI-1-01-12 below). If a valve has been partially disassembled and VT-3 examined and later one of the valves in the same group is disassembled such that a more extensive examination is allowed, perform a VT-3 examination on the recently disassembled valve.

**HATCH UNIT 1 FOURTH INTERVAL ISI PLAN
CLASS 1 COMPONENTS**

Examinations were performed as shown in the attached Hatch Unit No. 1 Code Compliance Scheduling Summary – 3rd Interval for Items B12.50.

Interpretation Number: XI-1-01-12

Codebook: Section XI

Volume: 48

Date: 13-DEC-00

Subject: Table IWB-2500-1 (1986 Edition with 1986 Addenda through 1992 Edition with 1993 Addenda)

Is it a requirement of Table IWB-2500-1 to disassemble all internal components of a valve at least once in an inspection interval, in order to perform the VT-3 required by Category **B-M-2**, Item Number B12.50, even though the maintenance activity, repair, or volumetric examination may not require disassembly of some of the internal components?

No. Examination of the internal pressure boundary is required to the extent practicable.

**HATCH UNIT 1 FOURTH INTERVAL ISI PLAN
CLASS 1 COMPONENTS**

Category B-N-1 – RPV Interior

See Vessel Internals Notebooks

Category B-N-2 – RPV Core Support Structure and Attachments

See Vessel Internals Notebooks

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

Category B-O – Pressure Retaining Welds in Control Rod Drive (CRD) Housings

Configuration

The bottom head of the RPV has a penetration for each CRD location. Each penetration had an Inconel SB-167 stub tube welded to the inside surface of the RPV bottom head with an Inconel 182 weld. The CRD housing was raised into position inside the stub tube and fastened with a J-Groove weld to the stub tube. The J-Groove weld had an Inconel 82 root with the remainder of the weld Inconel 182. (See Figure 2-BE-4 and FSAR Figure 4.2-12). Outside of the RPV, there is a housing to flange weld (and there may be an intermediate housing to housing weld between the flange weld and the bottom of the vessel.) Note: These welds are inaccessible due to being inside the support skirt.

The 2002 Edition with 2003 Addenda Code requirement is to perform a volumetric or surface examination of 10% of the welds located in the peripheral CRD housings. However, the examination is not required if the makeup flow specified in IWB-1220(a) is greater than the postulated loss of inventory caused by the failure of the weld. Per the Exemption Section of this document the makeup flow is 420 gpm and per Section 4.2.3.2.3.1 of the HNP UFSAR (shown below), the leak rate from the housing to flange weld failing in tension would be limited to ~ 840 gpm and the leak rate from a housing rupture would be ~ 1030 gpm. Therefore, the examination is not exempt per Section XI because the makeup flow is insufficient.

ALTERNATIVE NEEDED BECAUSE OF THE INACCESSIBILITY.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 1 COMPONENTS

CLASS 1 AUGMENTED EXAMINATIONS

The NRC's safety evaluation dated 6/16/97 of the 3rd Interval ISI Program indicated, that in addition to the 1989 Code required examinations, certain Class 1 augmented examinations would be performed per GPC commitment. The commitments along with the current implementation methodology are listed below.

1. Augmented examinations on the Unit 1 main steam, feedwater, HPCI (steam), RCIC (steam) and RWCU high energy piping outside containment (where pipe breaks were not postulated) are not required. This is based on the information supplied in a December 1972 NRC letter from A. Giambusso to Georgia Power Company.
2. Augmented examination of welds susceptible to IGSCC as specified in NUREG-0313 as modified by Generic Letter 88-01. These examinations were originally performed as required. They are currently performed per BWRVIP-075. See the BWRVIP-75 Section of this document.
3. Augmented examination of the RPV feedwater nozzles as specified by NUREG-0619 as modified by Generic Letter 81-11. These examinations were originally performed as required. They are currently performed per "Alternate BWR Feedwater Nozzle Inspection Requirements," GE-NE-523-A71-0594-A, Revision 1, May 2000.
4. Examination of the core shroud in accordance with Generic Letter 94-03. These exams are currently performed per BWRVIP requirements (non-ASME).

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
B-A	B1.11		4	0%	0	0	0	0	0%	0%	0	0%	0%	0	0%	0%
B-A	B1.12		12	100%	12	12	12	12	100.00%	100%	0	100.00%	100%	0	100.00%	100%
Total:			16		12	12	12	12	100%	100%	0	100%	100%	0	100%	100%

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
B-A	B1.21		3	66.67%	2	2	2	0	0%	0%	1	50.00%	50%	1	100.00%	100%
B-A	B1.22		22	100%	22	22	22	4	18.18%	19%	4	36.36%	37%	14	100.00%	100%
Total:			25		24	24	24	4	16.60%	17%	5	37.50%	38%	15	100%	100%

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
B-A	B1.30		1	100%	1	1	1	1	100.00%	100%	0	100.00%	100%	0	100.00%	100%
B-A	B1.40		1	100%	1	1	1	1	100.00%	100%	0	100.00%	100%	0	100.00%	100%
Total:			2		2	2	2	2	100%	100%	0	100%	100%	0	100%	100%

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
B-G-1	B6.10		52	100%	52	52	52	17	32.69%	33%	17	65.38%	66%	18	100.00%	100%
B-G-1	B6.20		52	100%	52	52	52	0	0%	0%	0	0.00%	0%	52	100.00%	100%
B-G-1	B6.40		52	100%	52	52	52	0	0%	0%	0	0.00%	0%	52	100.00%	100%
B-G-1	B6.50		52	100%	52	52	52	17	32.69%	33%	17	65.38%	66%	18	100.00%	100%
B-G-1	B6.50B		4	0%	0	0	4	0	0%	0%	0	0%	0%	4	0%	0%
Total:			212		208	208	212	34	16.30%	17%	34	32.60%	33%	144	101.00%	101%

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
B-G-1	B6.180		32	50%	16	16	16	0	0%	0%	16	100.00%	100%	0	100.00%	100%
B-G-1	B6.190		2	100%	2	2	2	2	100.00%	100%	0	100.00%	100%	0	100.00%	100%
B-G-1	B6.200		2	50%	1	1	2	2	200.00%	200%	0	200.00%	200%	0	200.00%	200%
Total:			36		19	19	20	4	21.00%	21%	16	105.00%	105%	0	105.00%	105%

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
B-J	B9.11		324	25%	81	81	82	31	38.27%	39%	17	59.26%	60%	34	101.23%	102%
B-J	B9.21		5	25%	1.25	2	1	0	0%	0%	1	80.00%	50%	0	80.00%	50%
B-J	B9.31		13	25%	3.25	4	4	2	61.54%	50%	0	61.54%	50%	2	123.08%	100%
B-J	B9.32		3	25%	0.75	1	1	0	0%	0%	0	0.00%	0%	1	133.33%	100%
Total:			345		86	88	88	33	38.30%	38%	18	59.30%	58%	37	102.00%	100%

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
B-K	B10.10		5	100%	5	5	1	1	20.00%	20%	0	20.00%	20%	0	20.00%	20%
B-K	B10.20		79	10%	7.9	8	8	2	25.32%	25%	3	63.29%	63%	3	101.27%	100%
B-K	B10.30		6	10%	0.6	1	1	1	166.67%	100%	0	166.67%	100%	0	166.67%	100%
Total:			90		14	14	10	4	28.50%	29%	3	50%	50%	3	71.40%	72%

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-A	H1 1B11\C-2 RPV		A-1	ISI	-	-	-	-	-	-
B1.11	1B11\C-2 RPV		UPPER SHELL (See RR-38)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\C-3 RPV		A-1	ISI	-	-	-	-	-	-
B1.11	1B11\C-3 RPV		UPPER MIDDLE SHELL (See RR-38)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\C-4 RPV		A-1	ISI	-	-	-	-	-	-
B1.11	1B11\C-4 RPV		LOWER MIDDLE SHELL (See RR-38)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\C-5 RPV		A-1	ISI	-	-	-	-	-	-
B1.11	1B11\C-5 RPV		LOWER SHELL (See RR-38)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\C-1-A	ISI/UT/	A-1	ISI	-	s	-	-	-	-
B1.12	1B11\C-1-A		LONG WELD ON UPPER SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\C-1-B	ISI/UT/	A-1	ISI	-	s	-	-	-	-
B1.12	1B11\C-1-B		LONG WELD ON UPPER SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\C-1-C	ISI/UT/	A-1	ISI	-	s	-	-	-	-
B1.12	1B11\C-1-C		LONG WELD ON UPPER SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\C-2-A	ISI/UT/	A-1	ISI	-	s	-	-	-	-
B1.12	1B11\C-2-A		LONG WELD ON UPPER MIDDLE SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\C-2-B	ISI/UT/	A-1	ISI	-	s	-	-	-	-
B1.12	1B11\C-2-B		LONG WELD ON UPPER MIDDLE SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\C-2-C	ISI/UT/	A-1	ISI	-	s	-	-	-	-
B1.12	1B11\C-2-C		LONG WELD ON UPPER MIDDLE SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-A B1.12 1	H1 1B11\C-3-A 1B11\C-3-A B11	ISI/UT/	A-1 LONG WELD ON LOWER MIDDLE SHELL	ISI	-	s	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A B1.12 1	H1 1B11\C-3-B 1B11\C-3-B B11	ISI/UT/	A-1 LONG WELD ON LOWER MIDDLE SHELL	ISI	-	s	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A B1.12 1	H1 1B11\C-3-C 1B11\C-3-C B11	ISI/UT/	A-1 LONG WELD ON LOWER MIDDLE SHELL	ISI	-	s	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A B1.12 1	H1 1B11\C-4-A 1B11\C-4-A B11	ISI/UT/	A-1 LONG WELD ON LOWER SHELL	ISI	-	s	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A B1.12 1	H1 1B11\C-4-B 1B11\C-4-B B11	ISI/UT/	A-1 INACCESSIBLE LONGITUDINAL WELD	ISI	-	s	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A B1.12 1	H1 1B11\C-4-C 1B11\C-4-C B11	ISI/UT/	A-1 LONG WELD ON LOWER SHELL	ISI	-	s	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A B1.21 1	H1 1B11\C-7 1B11\C-7 B11	ISI/UT/	A-1A, 1-BA-3/4/5 HEAD DOME WELD	ISI	-	-	-	-	-	s
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A B1.21 1	H1 1B11\C-8 1B11\C-8 B11		A-1A INACCESSIBLE	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A B1.21 1	H1 1B11\HC-1 1B11\HC-1 B11	ISI/UT/	A-2 CLOSURE HEAD DOLLAR PLATE WELD	ISI	-	-	-	s	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A B1.22 1	H1 1B11\BHD-A 1B11\BHD-A B11	ISI/UT/	A-1A, 1-BA-3/4 WELD	ISI	-	-	-	-	-	s
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-A	H1 1B11\BHT-F	ISI/UT/	A-1A, 1-BA-3/4	ISI	-	-	-	-	-	s
B1.22	1B11\BHT-F		WELD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\BHT-G	ISI/UT/	A-1A, 1-BA-3/4	ISI	-	-	-	-	-	s
B1.22	1B11\BHT-G		WELD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\BHT-H	ISI/UT/	A-1A, 1-BA-3/4	ISI	-	-	-	-	-	s
B1.22	1B11\BHT-H		WELD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\HC-1-A	ISI/UT/	A-2	ISI	-	s	-	-	-	-
B1.22	1B11\HC-1-A		MERIDIONAL WELD CLOSURE HEAD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\HC-1-B	ISI/UT/	A-2	ISI	-	s	-	-	-	-
B1.22	1B11\HC-1-B		MERIDIONAL WELD CLOSURE HEAD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\HC-1-C	ISI/UT/	A-2	ISI	-	s	-	-	-	-
B1.22	1B11\HC-1-C		MERIDIONAL WELD CLOSURE HEAD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\HC-1-D	ISI/UT/	A-2	ISI	-	s	-	-	-	-
B1.22	1B11\HC-1-D		MERIDIONAL WELD CLOSURE HEAD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\HC-1-E	ISI/UT/	A-2	ISI	-	-	-	s	-	-
B1.22	1B11\HC-1-E		MERIDIONAL WELD CLOSURE HEAD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\HC-1-F	ISI/UT/	A-2	ISI	-	-	-	s	-	-
B1.22	1B11\HC-1-F		MERIDIONAL WELD CLOSURE HEAD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-A	H1 1B11\HC-1-G	ISI/UT/	A-2	ISI	-	-	-	s	-	-
B1.22	1B11\HC-1-G		MERIDIONAL WELD CLOSURE HEAD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-D	H1 1B11\N15 (IR)		A-1A	ISI	-	-	-	-	-	-
B3.100	1B11\N15 (IR)		BOTTOM HEAD DRAIN (Need RR)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N15 (N-SH)		A-1A	ISI	-	-	-	-	-	-
B3.90	1B11\N15 (N-SH)		BOTTOM HEAD DRAIN (Need RR)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N1A (IR)	ISI/UT/Vendor	A-1	ISI	s	-	-	-	-	-
B3.100	1B11\N1A (IR)		A LOOP RECIRC OUTLET NOZZLE IR	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N1A (SH-N)	ISI/UT/NMP-ES-024-503	A-1	ISI	s	-	-	-	-	-
B3.90	1B11\N1A (SH-N)		A LOOP RECIRC OUTLET SHELL TO NOZ	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N1B (IR)	ISI//	A-1	ISI	-	-	s	-	-	-
B3.100	1B11\N1B (IR)		B LOOP RECIRC OUTLET NOZZLE IR	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N1B (SH-N)	ISI/UT/	A-1	ISI	-	-	s	-	-	-
B3.90	1B11\N1B (SH-N)		B LOOP RECIRC OUTLET SHELL TO NOZ	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N2A (IR)	ISI/UT/Vendor	A-1	ISI	s	-	-	-	-	-
B3.100	1B11\N2A (IR)		B LOOP RECIRC INLET NOZZLE IR	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N2A (N-SH)	ISI/UT/NMP-ES-024-503	A-1	ISI	s	-	-	-	-	-
B3.90	1B11\N2A (N-SH)		B LOOP RECIRC INLET NOZZ TO SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N2B (IR)	ISI/UT/	A-1	ISI	-	-	s	-	-	-
B3.100	1B11\N2B (IR)		B LOOP RECIRC INLET NOZZLE IR	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N2B (N-SH)	ISI/UT/	A-1	ISI	-	-	s	-	-	-
B3.90	1B11\N2B (N-SH)		B LOOP RECIRC INLET NOZZ TO SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-D B3.100 1	H1 1B11\N2C (IR) 1B11\N2C (IR) B11	ISI/UT/	A-1, 1-BF-2 B LOOP RECIRC INLET NOZZLE IR	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- s - -	- - - -
B-D B3.90 1	H1 1B11\N2C (N-SH) 1B11\N2C (N-SH) B11	ISI/UT/	A-1, 1-BF-2 B LOOP RECIRC INLET NOZZ TO SHELL	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- s - -	- - - -
B-D B3.100 1	H1 1B11\N2D (IR) 1B11\N2D (IR) B11	ISI/UT/	A-1 B LOOP RECIRC INLET NOZZLE IR	ISI AUG OWN PRE	- - - -	- - - -	s - - -	- - - -	- - - -	- - - -
B-D B3.90 1	H1 1B11\N2D (N-SH) 1B11\N2D (N-SH) B11	ISI/UT/	A-1 B LOOP RECIRC INLET NOZZ TO SHELL	ISI AUG OWN PRE	- - - -	- - - -	s - - -	- - - -	- - - -	- - - -
B-D B3.100 1	H1 1B11\N2E (IR) 1B11\N2E (IR) B11	ISI/UT/	A-1 B LOOP RECIRC INLET NOZZLE IR	ISI AUG OWN PRE	- - - -	- - - -	s - - -	- - - -	- - - -	- - - -
B-D B3.90 1	H1 1B11\N2E (N-SH) 1B11\N2E (N-SH) B11	ISI/UT/	A-1 B LOOP RECIRC INLET NOZZ TO SHELL	ISI AUG OWN PRE	- - - -	- - - -	s - - -	- - - -	- - - -	- - - -
B-D B3.100 1	H1 1B11\N2F (IR) 1B11\N2F (IR) B11	ISI/UT/	A-1, 1-BF-2 A LOOP RECIRC INLET NOZZLE IR	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- s - -	- - - -
B-D B3.90 1	H1 1B11\N2F (N-SH) 1B11\N2F (N-SH) B11	ISI/UT/	A-1, 1-BF-2 A LOOP RECIRC INLET NOZZ TO SHELL	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- s - -	- - - -
B-D B3.100 1	H1 1B11\N2G (IR) 1B11\N2G (IR) B11	ISI/UT/	A-1 A LOOP RECIRC INLET NOZZLE IR	ISI AUG OWN PRE	- - - -	- - - -	s - - -	- - - -	- - - -	- - - -
B-D B3.90 1	H1 1B11\N2G (N-SH) 1B11\N2G (N-SH) B11	ISI/UT/	A-1 A LOOP RECIRC INLET NOZZ TO SHELL	ISI AUG OWN PRE	- - - -	- - - -	s - - -	- - - -	- - - -	- - - -

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-D B3.100 1	H1 1B11\N2H (IR) 1B11\N2H (IR) B11	ISI/UT/	A-1 A LOOP RECIRC INLET NOZZLE IR	ISI AUG OWN PRE	- - - -	- - - -	S - - -	- - - -	- - - -	- - - -
B-D B3.90 1	H1 1B11\N2H (N-SH) 1B11\N2H (N-SH) B11	ISI/UT/	A-1 A LOOP RECIRC INLET NOZZ TO SHELL	ISI AUG OWN PRE	- - - -	- - - -	S - - -	- - - -	- - - -	- - - -
B-D B3.100 1	H1 1B11\N2J (IR) 1B11\N2J (IR) B11	ISI/UT/	A-1, 1-BF-2 A LOOP RECIRC INLET NOZZLE IR	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	S - - -	- - - -
B-D B3.90 1	H1 1B11\N2J (N-SH) 1B11\N2J (N-SH) B11	ISI/UT/	A-1, 1-BF-2 A LOOP RECIRC INLET NOZZ TO SHELL	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	S - - -	- - - -
B-D B3.100 1	H1 1B11\N2K (IR) 1B11\N2K (IR) B11	ISI/UT/	A-1 A LOOP RECIRC INLET NOZZLE IR	ISI AUG OWN PRE	- - - -	- - - -	S - - -	- - - -	- - - -	- - - -
B-D B3.90 1	H1 1B11\N2K (N-SH) 1B11\N2K (N-SH) B11	ISI/UT/	A-1 A LOOP RECIRC INLET NOZZ TO SHELL	ISI AUG OWN PRE	- - - -	- - - -	S - - -	- - - -	- - - -	- - - -
B-D B3.100 1	H1 1B11\N3A (IR) 1B11\N3A (IR) B11	ISI/UT/Vendor	A-1 A LOOP MS OUTLET NOZZLE IR	ISI AUG OWN PRE	S - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-D B3.90 1	H1 1B11\N3A (N-SH) 1B11\N3A (N-SH) B11	ISI/UT/NMP-ES-024-503	A-1 A LOOP MS OUTLET SHELL TO NOZZ	ISI AUG OWN PRE	S - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-D B3.100 1	H1 1B11\N3B (IR) 1B11\N3B (IR) B11	ISI/UT/Vendor	A-1 B LOOP MS OUTLET NOZZLE IR	ISI AUG OWN PRE	S - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-D B3.90 1	H1 1B11\N3B (N-SH) 1B11\N3B (N-SH) B11	ISI/UT/NMP-ES-024-503	A-1 B LOOP MS OUTLET SHELL TO NOZZ	ISI AUG OWN PRE	S - - -	- - - -	- - - -	- - - -	- - - -	- - - -

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-D B3.100 1	H1 1B11\N3C (IR) 1B11\N3C (IR) B11	ISI/UT/	A-1 C LOOP MS OUTLET NOZZLE IR	ISI	-	-	s	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D B3.90 1	H1 1B11\N3C (N-SH) 1B11\N3C (N-SH) B11	ISI/UT/	A-1 C LOOP MS OUTLET SHELL TO NOZZ	ISI	-	-	s	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D B3.100 1	H1 1B11\N3D (IR) 1B11\N3D (IR) B11	ISI/UT/	A-1 D LOOP MS OUTLET NOZZLE IR	ISI	-	-	s	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D B3.90 1	H1 1B11\N3D (N-SH) 1B11\N3D (N-SH) B11	ISI/UT/	A-1 D LOOP MS OUTLET SHELL TO NOZZ	ISI	-	-	s	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D B3.100 1	H1 1B11\N4A (IR & BORE) 1B11\N4A (IR & BORE) B11	ISI/UT/Vendor	A-1 A-A LOOP FW INLET NOZZLE IR/BORE	ISI	s	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D B3.90 1	H1 1B11\N4A (N-SH) 1B11\N4A (N-SH) B11	ISI/UT/NMP-ES-024-503	A-1 A-A LOOP FW INLET NOZZ TO SHELL	ISI	s	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D B3.100 1	H1 1B11\N4B (IR & BORE) 1B11\N4B (IR & BORE) B11	ISI/UT/Vendor	A-1 A-B LOOP FW INLET NOZZLE IR/BORE	ISI	s	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D B3.90 1	H1 1B11\N4B (N-SH) 1B11\N4B (N-SH) B11	ISI/UT/NMP-ES-024-503	A-1 A-B LOOP FW INLET NOZZ TO SHELL	ISI	s	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D B3.100 1	H1 1B11\N4C (IR & BORE) 1B11\N4C (IR & BORE) B11	ISI/UT/Vendor	A-1 B-C LOOP FW INLET NOZZLE IR/BORE	ISI	s	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D B3.90 1	H1 1B11\N4C (N-SH) 1B11\N4C (N-SH) B11	ISI/UT/NMP-ES-024-503	A-1 B-C LOOP FW INLET NOZZ TO SHELL	ISI	s	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-D	H1 1B11\N4D (IR & BORE)	ISI/UT/Vendor	A-1	ISI	s	-	-	-	-	-
B3.100	1B11\N4D (IR & BORE)		B-D LOOP FW INLET NOZZLE IR/BORE	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N4D (N-SH)	ISI/UT/NMP-ES-024-503	A-1	ISI	s	-	-	-	-	-
B3.90	1B11\N4D (N-SH)		B-D LOOP FW INLET NOZZ TO SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N5A (IR)	ISI/UT/	A-1, 1-BF-5	ISI	-	-	-	-	s	-
B3.100	1B11\N5A (IR)		A LOOP CS INLET NOZZLE IR	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N5A (N-SH)	ISI/UT/	A-1, 1-BF-5	ISI	-	-	-	-	s	-
B3.90	1B11\N5A (N-SH)		A LOOP CS INLET NOZZ TO SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N5B (IR)	ISI/UT/Vendor	A-1	ISI	s	-	-	-	-	-
B3.100	1B11\N5B (IR)		B LOOP CS INLET NOZZLE IR	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N5B (N-SH)	ISI/UT/NMP-ES-024-503	A-1	ISI	s	-	-	-	-	-
B3.90	1B11\N5B (N-SH)		B LOOP CS INLET NOZZ TO SHELL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N6A (IR)	ISI//	A-2	ISI	-	-	-	s	-	-
B3.100	1B11\N6A (IR)		A LOOP RHR HS NOZZLE IR	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N6A (N-H)	ISI//	A-2	ISI	-	-	-	s	-	-
B3.90	1B11\N6A (N-H)		A LOOP RHR HS NOZZLE TO HEAD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N6B (IR)	ISI/UT/	A-2	ISI	-	-	-	s	-	-
B3.100	1B11\N6B (IR)		B LOOP RHR HS NOZZLE IR	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-D	H1 1B11\N6B (N-H)	ISI//	A-2	ISI	-	-	-	s	-	-
B3.90	1B11\N6B (N-H)		B LOOP RHR HS NOZZLE TO HEAD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

[illegible]

[illegible]

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\NUT-1	ISI/VT/	A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-1		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-10		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-10		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-11		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-11		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-12		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-12		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-13		A-2A	ISI	-	-	-	s	-	-
B6.10	1B11\NUT-13		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-14		A-2A	ISI	-	-	-	s	-	-
B6.10	1B11\NUT-14		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-15		A-2A	ISI	-	-	-	s	-	-
B6.10	1B11\NUT-15		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-16		A-2A	ISI	-	-	-	s	-	-
B6.10	1B11\NUT-16		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-17		A-2A	ISI	-	-	-	s	-	-
B6.10	1B11\NUT-17		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-18		A-2A	ISI	-	-	-	s	-	-
B6.10	1B11\NUT-18		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\NUT-19		A-2A	ISI	-	-	s	-	-	-
B6.10	1B11\NUT-19		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-2		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-2		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-20		A-2A	ISI	-	-	s	-	-	-
B6.10	1B11\NUT-20		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-21		A-2A	ISI	-	-	s	-	-	-
B6.10	1B11\NUT-21		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-22		A-2A	ISI	-	-	s	-	-	-
B6.10	1B11\NUT-22		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-23		A-2A	ISI	-	-	s	-	-	-
B6.10	1B11\NUT-23		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-24		A-2A	ISI	-	-	s	-	-	-
B6.10	1B11\NUT-24		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-25		A-2A	ISI	-	-	-	-	s	-
B6.10	1B11\NUT-25		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-26		A-2A	ISI	-	-	-	-	s	-
B6.10	1B11\NUT-26		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-27		A-2A	ISI	-	-	-	-	s	-
B6.10	1B11\NUT-27		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\NUT-28		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-28		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-29		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-29		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-3		A-2A	ISI	-	S	-	-	-	-
B6.10	1B11\NUT-3		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-30		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-30		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-31		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-31		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-32		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-32		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-33		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-33		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-34		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-34		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-35		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-35		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-36		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-36		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\NUT-37		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-37		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-38		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-38		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-39		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-39		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-4		A-2A	ISI	-	S	-	-	-	-
B6.10	1B11\NUT-4		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-40		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-40		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-41		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-41		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-42		A-2A	ISI	-	-	-	-	S	-
B6.10	1B11\NUT-42		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-43		A-2A	ISI	-	-	-	S	-	-
B6.10	1B11\NUT-43		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-44		A-2A	ISI	-	-	-	S	-	-
B6.10	1B11\NUT-44		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-45		A-2A	ISI	-	-	-	S	-	-
B6.10	1B11\NUT-45		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\NUT-46		A-2A	ISI	-	-	s	-	-	-
B6.10	1B11\NUT-46		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-47		A-2A	ISI	-	-	s	-	-	-
B6.10	1B11\NUT-47		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-48		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-48		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-49		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-49		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-5		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-5		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-50		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-50		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-51		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-51		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-52		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-52		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-6		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-6		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-7	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-7		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\NUT-8		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-8		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\NUT-9		A-2A	ISI	-	s	-	-	-	-
B6.10	1B11\NUT-9		CLOSURE HEAD NUT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-1			ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-1		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-10			ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-10		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-11			ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-11		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-12			ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-12		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-13			ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-13		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-14			ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-14		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-15			ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-15		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-16			ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-16		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1		Period 2		Period 3	
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B31\RC-A PUMP BOLT-2		ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-2	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-3		ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-3	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-4		ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-4	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-5		ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-5	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-6		ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-6	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-7		ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-7	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-8		ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-8	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP BOLT-9		ISI	-	-	-	-	-	-
B6.180	1B31\RC-A PUMP BOLT-9	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-1	ISI/UT/	ISI	-	-	-	s	-	-
B6.180	1B31\RC-B PUMP BOLT-1	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-10	ISI//	ISI	-	-	-	s	-	-
B6.180	1B31\RC-B PUMP BOLT-10	PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1		Period 2		Period 3	
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B31\RC-B PUMP BOLT-11	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-11		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-12	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-12		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-13	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-13		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-14	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-14		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-15	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-15		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-16	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-16		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-2	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-2		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-3	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-3		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-4	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-4		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-5	ISI//		ISI	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-5		PUMP BOLTING	AUG	-	-	-	-	-
1	B31			OWN	-	-	-	-	-
				PRE	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B31\RC-B PUMP BOLT-6	ISI//		ISI	-	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-6		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-7	ISI//		ISI	-	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-7		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-8	ISI//		ISI	-	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-8		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP BOLT-9	ISI//		ISI	-	-	-	-	-	-
B6.180	1B31\RC-B PUMP BOLT-9		PUMP BOLTING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-A PUMP-FLANGE	ISI/VT/NMP-ES-024-201	A-20	ISI	s	-	-	-	-	-
B6.190	1B31\RC-A PUMP-FLANGE		FLANGE SURFACE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B31\RC-B PUMP-FLANGE	ISI/VT/NMP-ES-024-201	A-20	ISI	s	-	-	-	-	-
B6.190	1B31\RC-B PUMP-FLANGE		FLANGE SURFACE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-1	ISI//	A-2A	ISI	-	-	-	-	s	-
B6.20	1B11\STUD-1		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-10		A-2A	ISI	-	-	-	-	s	-
B6.20	1B11\STUD-10		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-11		A-2A	ISI	-	-	-	-	s	-
B6.20	1B11\STUD-11		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-12		A-2A	ISI	-	-	-	-	s	-
B6.20	1B11\STUD-12		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\STUD-13		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-13		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-14		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-14		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-15		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-15		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-16		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-16		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-17		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-17		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-18		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-18		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-19		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-19		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-2		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-2		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-20		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-20		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-21		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-21		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / Compld / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\STUD-22		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-22		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-23		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-23		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-24		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-24		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-25		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-25		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-26		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-26		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-27		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-27		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-28		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-28		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-29		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-29		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-3		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-3		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-30		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-30		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\STUD-31		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-31		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-32		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-32		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-33		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-33		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-34		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-34		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-35		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-35		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-36		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-36		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-37		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-37		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-38		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-38		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-39	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-39		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-4		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-4		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\STUD-40	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-40		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-41	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-41		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-42		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-42		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-43		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-43		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-44		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-44		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-45		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-45		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-46		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-46		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-47		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-47		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-48		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-48		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-49		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-49		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, Item NO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\STUD-5		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-5		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-50		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-50		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-51		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-51		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-52		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-52		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-6		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-6		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-7		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-7		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-8		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-8		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\STUD-9		A-2A	ISI	-	-	-	-	S	-
B6.20	1B11\STUD-9		CLOSURE HEAD STUD	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	WASHERS	ISI/VT/NMP-ES-024-201	A-20	ISI	S	-	-	-	-	-
B6.200	1B31\RC-A PUMP-NUTS AND WASHERS		RC PUMP A NUTS AND WASHERS	AUG	-	-	-	-	-	-
1				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	WASHERS	ISI/VT/NMP-ES-024-201	A-20	ISI	S	-	-	-	-	-
B6.200	1B31\RC-B PUMP-NUTS AND WASHERS		RC PUMP B NUTS AND WASHERS	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\LIG-1	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-1		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-10	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-10		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-11	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-11		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-12	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-12		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-13	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-13		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-14	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-14		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-15	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-15		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-16	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-16		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-17	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-17		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-18	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-18		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1				Period 2				Period 3			
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27						
B-G-1 B6.40 1	H1 1B11\LIG-19 1B11\LIG-19 B11	ISI//	A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							
B-G-1 B6.40 1	H1 1B11\LIG-2 1B11\LIG-2 B11	ISI//	A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							
B-G-1 B6.40 1	H1 1B11\LIG-20 1B11\LIG-20 B11	ISI//	A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							
B-G-1 B6.40 1	H1 1B11\LIG-21 1B11\LIG-21 B11	ISI//	A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							
B-G-1 B6.40 1	H1 1B11\LIG-22 1B11\LIG-22 B11	ISI//	A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							
B-G-1 B6.40 1	H1 1B11\LIG-23 1B11\LIG-23 B11	ISI//	A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							
B-G-1 B6.40 1	H1 1B11\LIG-24 1B11\LIG-24 B11	ISI//	A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							
B-G-1 B6.40 1	H1 1B11\LIG-25 1B11\LIG-25 B11		A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							
B-G-1 B6.40 1	H1 1B11\LIG-26 1B11\LIG-26 B11		A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							
B-G-1 B6.40 1	H1 1B11\LIG-27 1B11\LIG-27 B11		A-2A FLANGE LIGAMENT	ISI AUG OWN PRE	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	S - - - - - - - - - - - - - - -							

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\LIG-28		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-28		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-29		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-29		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-3	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-3		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-30		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-30		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-31		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-31		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-32		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-32		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-33		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-33		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-34		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-34		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-35		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-35		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-36		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-36		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\LIG-37		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-37		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-38		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-38		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-39		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-39		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-4	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-4		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-40		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-40		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-41		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-41		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-42		A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-42		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-43	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-43		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-44	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-44		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-45	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-45		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\LIG-46	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-46		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-47	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-47		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-48	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-48		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-49	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-49		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-5	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-5		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-50	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-50		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-51	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-51		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-52	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-52		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-6	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-6		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-7	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.40	1B11\LIG-7		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\LIG-8	ISI//	A-2A	ISI	-	-	-	-	s	-
B6.40	1B11\LIG-8		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\LIG-9	ISI//	A-2A	ISI	-	-	-	-	s	-
B6.40	1B11\LIG-9		FLANGE LIGAMENT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-1	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-1		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-10	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-10		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-11	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-11		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-12	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-12		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-13	ISI//	A-2A	ISI	-	-	-	s	-	-
B6.50	1B11\WASHER-13		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-14	ISI//	A-2A	ISI	-	-	-	s	-	-
B6.50	1B11\WASHER-14		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-15	ISI//	A-2A	ISI	-	-	-	s	-	-
B6.50	1B11\WASHER-15		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-16	ISI//	A-2A	ISI	-	-	-	s	-	-
B6.50	1B11\WASHER-16		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\WASHER-17	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.50	1B11\WASHER-17		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-18	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.50	1B11\WASHER-18		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-19	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.50	1B11\WASHER-19		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-2	ISI//	A-2A	ISI	-	S	-	-	-	-
B6.50	1B11\WASHER-2		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-20	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.50	1B11\WASHER-20		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-21	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.50	1B11\WASHER-21		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-22	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.50	1B11\WASHER-22		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-23	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.50	1B11\WASHER-23		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-24	ISI//	A-2A	ISI	-	-	-	-	S	-
B6.50	1B11\WASHER-24		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-25	ISI//	A-2A	ISI	-	-	-	-	-	S
B6.50	1B11\WASHER-25		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1		Period 2		Period 3	
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\WASHER-26		A-2A	ISI	-	-	-	-	S
B6.50	1B11\WASHER-26		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-27		A-2A	ISI	-	-	-	-	S
B6.50	1B11\WASHER-27		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-28		A-2A	ISI	-	-	-	-	S
B6.50	1B11\WASHER-28		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-29		A-2A	ISI	-	-	-	-	S
B6.50	1B11\WASHER-29		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-3	ISI//	A-2A	ISI	-	S	-	-	-
B6.50	1B11\WASHER-3		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-30		A-2A	ISI	-	-	-	-	S
B6.50	1B11\WASHER-30		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-31		A-2A	ISI	-	-	-	-	S
B6.50	1B11\WASHER-31		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-32		A-2A	ISI	-	-	-	-	S
B6.50	1B11\WASHER-32		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-33		A-2A	ISI	-	-	-	-	S
B6.50	1B11\WASHER-33		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-34		A-2A	ISI	-	-	-	-	S
B6.50	1B11\WASHER-34		CLOSURE HEAD WASHER	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11WASHER-35		A-2A	ISI	-	-	-	-	S	-
B6.50	1B11WASHER-35		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11WASHER-36		A-2A	ISI	-	-	-	-	S	-
B6.50	1B11WASHER-36		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11WASHER-37		A-2A	ISI	-	-	-	-	S	-
B6.50	1B11WASHER-37		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11WASHER-38		A-2A	ISI	-	-	-	-	S	-
B6.50	1B11WASHER-38		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11WASHER-39		A-2A	ISI	-	-	-	-	S	-
B6.50	1B11WASHER-39		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11WASHER-4	ISI//	A-2A	ISI	-	S	-	-	-	-
B6.50	1B11WASHER-4		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11WASHER-40		A-2A	ISI	-	-	-	-	S	-
B6.50	1B11WASHER-40		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11WASHER-41		A-2A	ISI	-	-	-	-	S	-
B6.50	1B11WASHER-41		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11WASHER-42		A-2A	ISI	-	-	-	-	S	-
B6.50	1B11WASHER-42		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11WASHER-43	ISI//	A-2A	ISI	-	-	-	S	-	-
B6.50	1B11WASHER-43		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\WASHER-44	ISI//	A-2A	ISI	-	-	s	-	-	-
B6.50	1B11\WASHER-44		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-45	ISI//	A-2A	ISI	-	-	s	-	-	-
B6.50	1B11\WASHER-45		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-46	ISI//	A-2A	ISI	-	-	s	-	-	-
B6.50	1B11\WASHER-46		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-47	ISI//	A-2A	ISI	-	-	s	-	-	-
B6.50	1B11\WASHER-47		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-48	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-48		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-49	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-49		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-5	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-5		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-50	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-50		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-51	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-51		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-52	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-52		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-1	H1 1B11\WASHER-6	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-6		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-7	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-7		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-8	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-8		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\WASHER-9	ISI//	A-2A	ISI	-	s	-	-	-	-
B6.50	1B11\WASHER-9		CLOSURE HEAD WASHER	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\BUSHING-32	ISI//	A-2A, 1-BG-1/2	ISI	-	-	-	-	-	s
B6.50B	1B11\BUSHING-32		CLOSURE HEAD BUSHING	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\BUSHING-33	ISI//	A-2A, 1-BG-1/2	ISI	-	-	-	-	-	s
B6.50B	1B11\BUSHING-33		CLOSURE HEAD BUSHING	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\BUSHING-34	ISI//	A-2A, 1-BG-1/2	ISI	-	-	-	-	-	s
B6.50B	1B11\BUSHING-34		CLOSURE HEAD BUSHING	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-1	H1 1B11\BUSHING-35	ISI//	A-2A, 1-BG-1/2	ISI	-	-	-	-	-	s
B6.50B	1B11\BUSHING-35		CLOSURE HEAD BUSHING	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-2	H1 1B21-1CHSV-1FB	ISI//	A-3	ISI	S	-	-	-	-	-
B7.50	1B21-1CHSV-1FB		N7 FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8A-ASR-2FB	ISI/VT/NMP-ES-024-201	A-4	ISI	S	-	-	-	-	-
B7.50	1B21-1MS-8A-ASR-2FB		B21-F013B FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8A-BSR-2FB	ISI/VT/NMP-ES-024-201	A-4	ISI	S	-	-	-	-	-
B7.50	1B21-1MS-8A-BSR-2FB		B21-F013A FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8B-ASR-2FB	ISI/VT/NMP-ES-024-201	A-5	ISI	S	-	-	-	-	-
B7.50	1B21-1MS-8B-ASR-2FB		B21-F013K FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8B-BSR-2FB	ISI/VT/NMP-ES-024-201	A-5	ISI	S	-	-	-	-	-
B7.50	1B21-1MS-8B-BSR-2FB		B21-F013D FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8B-CSR-2FB	ISI//	A-5	ISI	S	-	-	-	-	-
B7.50	1B21-1MS-8B-CSR-2FB		B21-F013C FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8B-DSR-2FB	ISI/VT/NMP-ES-024-201	A-5	ISI	S	-	-	-	-	-
B7.50	1B21-1MS-8B-DSR-2FB		B21-F013E FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8C-ASR-2FB	ISI/VT/NMP-ES-024-201	A-6	ISI	S	-	-	-	-	-
B7.50	1B21-1MS-8C-ASR-2FB		B21-F013L FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8C-BSR-2FB	ISI//	A-6	ISI	S	-	-	-	-	-
B7.50	1B21-1MS-8C-BSR-2FB		B21-F013G FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8C-CSR-2FB	ISI/VT/NMP-ES-024-201	A-6	ISI	S	-	-	-	-	-
B7.50	1B21-1MS-8C-CSR-2FB		B21-F013F FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-2	H1 1B21-1MS-8D-ASR-2FB	ISI//	A-7	ISI	s	-	-	-	-	-
B7.50	1B21-1MS-8D-ASR-2FB		B21-F013J FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-1MS-8D-BSR-2FB	ISI/VT/NMP-ES-024-201	A-7	ISI	s	-	-	-	-	-
B7.50	1B21-1MS-8D-BSR-2FB		B21-F013H FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B31-1RC-6A-1FB	ISI/VT/NMP-ES-024-201	A-14	ISI	s	-	-	-	-	-
B7.50	1B31-1RC-6A-1FB		FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B31-1RC-6B-1FB	ISI/VT/NMP-ES-024-201	A-15	ISI	s	-	-	-	-	-
B7.50	1B31-1RC-6B-1FB		FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-1RHR-9A-HS-1FB	ISI/VT/NMP-ES-024-201	A-25	ISI	s	-	-	-	-	-
B7.50	1E11-1RHR-9A-HS-1FB		N6A FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-1RHR-9B-HS-1FB	ISI/VT/NMP-ES-024-201	A-25	ISI	s	-	-	-	-	-
B7.50	1E11-1RHR-9B-HS-1FB		N6B FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E41-1HPCI-3-R-1FB	ISI/VT/NMP-ES-024-201	A-29A	ISI	s	-	-	-	-	-
B7.50	1E41-1HPCI-3-R-1FB		G31-F203 FB IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-2	H1 1B21-F010A Bolting	ISI/VT/NMP-ES-024-201	A-8	ISI	S	-	-	-	-	-
B7.70GR1	1B21-F010A Bolting		GR 1 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F010B Bolting	ISI/VT/NMP-ES-024-201	A-9	ISI	S	-	-	-	-	-
B7.70GR1	1B21-F010B Bolting		GR 1 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F032A Bolting	ISI/VT/NMP-ES-024-201	A-8	ISI	S	-	-	-	-	-
B7.70GR1	1B21-F032A Bolting		GR 1 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F032B Bolting	ISI/VT/NMP-ES-024-201	A-9	ISI	S	-	-	-	-	-
B7.70GR1	1B21-F032B Bolting		GR 1 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-F060A Bolting	ISI/VT/NMP-ES-024-201	A-21	ISI	S	-	-	-	-	-
B7.70GR10	1E11-F060A Bolting		GR 10 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-F060B Bolting	ISI/VT/NMP-ES-024-201	A-22	ISI	S	-	-	-	-	-
B7.70GR10	1E11-F060B Bolting		GR 10 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E21-F004A Bolting	ISI/VT/NMP-ES-024-201	A-26	ISI	S	-	-	-	-	-
B7.70GR11	1E21-F004A Bolting		GR 11 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E21-F004B Bolting	ISI/VT/NMP-ES-024-201	A-27	ISI	S	-	-	-	-	-
B7.70GR11	1E21-F004B Bolting		GR 11 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E21-F005A Bolting	ISI/VT/NMP-ES-024-201	A-26	ISI	S	-	-	-	-	-
B7.70GR11	1E21-F005A Bolting		GR 11 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E21-F005B Bolting	ISI/VT/NMP-ES-024-201	A-27	ISI	S	-	-	-	-	-
B7.70GR11	1E21-F005B Bolting		GR 11 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
B-G-2 B7.70GR12 1	H1 1E21-F006A Bolting	ISI/VT/NMP-ES-024-201	A-26	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1E21-F006A Bolting		GR 12 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	E21			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
B-G-2 B7.70GR12 1	H1 1E21-F006B Bolting	ISI/VT/NMP-ES-024-201	A-27	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1E21-F006B Bolting		GR 12 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	E21			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
B-G-2 B7.70GR13 1	H1 1E21-F007A Bolting	ISI/VT/NMP-ES-024-201	A-26	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1E21-F007A Bolting		GR 13 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	E21			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
B-G-2 B7.70GR13 1	H1 1E21-F007B Bolting	ISI/VT/NMP-ES-024-201	A-27	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1E21-F007B Bolting		GR 13 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	E21			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
B-G-2 B7.70GR14 1	H1 1E41-F006 Bolting	ISI/VT/NMP-ES-024-201	A-29	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1E41-F006 Bolting		GR 14 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	E41			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
B-G-2 B7.70GR15 1	H1 1E41-F002 Bolting	ISI/VT/NMP-ES-024-201	A-28	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1E41-F002 Bolting		GR 15 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	E41			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
B-G-2 B7.70GR15 1	H1 1E41-F003 Bolting	ISI/VT/NMP-ES-024-201	A-28	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1E41-F003 Bolting		GR 15 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	E41			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
B-G-2 B7.70GR16 1	H1 1G31-F001 Bolting	ISI/VT/NMP-ES-024-201	A-32	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1G31-F001 Bolting		GR 16 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	G31			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
B-G-2 B7.70GR16 1	H1 1G31-F004 Bolting	ISI/VT/NMP-ES-024-201	A-32	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1G31-F004 Bolting		GR 16 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	G31			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
B-G-2 B7.70GR17 1	H1 1G31-F027 Bolting	ISI/VT/NMP-ES-024-201	A-32	ISI	s	-	-	-	-	-	-	-	-	-	-	-
	1G31-F027 Bolting		GR 17 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-	-	-	-	-	-	-
	G31			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-2 B7.70GR2 1	H1 1B21-F011A Bolting 1B21-F011A Bolting B21	ISI/VT/NMP-ES-024-201	A-8 GR 2 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-G-2 B7.70GR2 1	H1 1B21-F011B Bolting 1B21-F011B Bolting B21	ISI/VT/NMP-ES-024-201	A-9 GR 2 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-G-2 B7.70GR3 1	H1 1B21-F013A Bolting 1B21-F013A Bolting B21	ISI/VT/NMP-ES-024-201	A-4 GR 3 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-G-2 B7.70GR3 1	H1 1B21-F013B Bolting 1B21-F013B Bolting B21	ISI/VT/NMP-ES-024-201	A-4 GR 3 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-G-2 B7.70GR3 1	H1 1B21-F013C Bolting 1B21-F013C Bolting B21	ISI/VT/NMP-ES-024-201	A-5 GR 3 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-G-2 B7.70GR3 1	H1 1B21-F013D Bolting 1B21-F013D Bolting B21	ISI/VT/NMP-ES-024-201	A-5 GR 3 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-G-2 B7.70GR3 1	H1 1B21-F013E Bolting 1B21-F013E Bolting B21	ISI/VT/NMP-ES-024-201	A-5 GR 3 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-G-2 B7.70GR3 1	H1 1B21-F013F Bolting 1B21-F013F Bolting B21	ISI/VT/NMP-ES-024-201	A-6 GR 3 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-G-2 B7.70GR3 1	H1 1B21-F013G Bolting 1B21-F013G Bolting B21	ISI/VT/NMP-ES-024-201	A-6 GR 3 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -
B-G-2 B7.70GR3 1	H1 1B21-F013H Bolting 1B21-F013H Bolting B21	ISI/VT/NMP-ES-024-201	A-7 GR 3 VB EXAMINE IF DISASSEMBLED	ISI AUG OWN PRE	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -

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B-G-2	H1 1B21-F013J Bolting	ISI/VT/NMP-ES-024-201	A-7	ISI	s	-	-	-	-	-
B7.70GR3	1B21-F013J Bolting		GR 3 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F013K Bolting	ISI/VT/NMP-ES-024-201	A-5	ISI	s	-	-	-	-	-
B7.70GR3	1B21-F013K Bolting		GROUP 3 VALVE BOLTING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F013L Bolting	ISI/VT/NMP-ES-024-201	A-6	ISI	s	-	-	-	-	-
B7.70GR3	1B21-F013L Bolting		GR 3 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F022A Bolting	ISI/VT/NMP-ES-024-201	A-4A	ISI	s	-	-	-	-	-
B7.70GR4	1B21-F022A Bolting		GR 4 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F022B Bolting	ISI/VT/NMP-ES-024-201	A-5A	ISI	s	-	-	-	-	-
B7.70GR4	1B21-F022B Bolting		GR 4 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F022C Bolting	ISI/VT/NMP-ES-024-201	A-6A	ISI	s	-	-	-	-	-
B7.70GR4	1B21-F022C Bolting		GR 4 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F022D Bolting	ISI/VT/NMP-ES-024-201	A-7A	ISI	s	-	-	-	-	-
B7.70GR4	1B21-F022D Bolting		GR 4 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F028A Bolting	ISI/VT/NMP-ES-024-201	A-4A	ISI	s	-	-	-	-	-
B7.70GR4	1B21-F028A Bolting		GR 4 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F028B Bolting	ISI/VT/NMP-ES-024-201	A-5A	ISI	s	-	-	-	-	-
B7.70GR4	1B21-F028B Bolting		GR 4 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B21-F028C Bolting	ISI/VT/NMP-ES-024-201	A-6A	ISI	s	-	-	-	-	-
B7.70GR4	1B21-F028C Bolting		GR 4 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-2	H1 1B21-F028D Bolting	ISI/VT/NMP-ES-024-201	A-7A	ISI	s	-	-	-	-	-
B7.70GR4	1B21-F028D Bolting		GR 4 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B31-F023A Bolting	ISI/VT/NMP-ES-024-201	A-14	ISI	s	-	-	-	-	-
B7.70GR5	1B31-F023A Bolting		GR 4 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B31-F023B Bolting	ISI/VT/NMP-ES-024-201	A-15	ISI	s	-	-	-	-	-
B7.70GR5	1B31-F023B Bolting		GR 5 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B31-F031A Bolting	ISI/VT/NMP-ES-024-201	A-14B	ISI	s	-	-	-	-	-
B7.70GR5	1B31-F031A Bolting		GR 5 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1B31-F031B Bolting	ISI/VT/NMP-ES-024-201	A-15B	ISI	s	-	-	-	-	-
B7.70GR5	1B31-F031B Bolting		GR 5 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-F008 Bolting	ISI/VT/NMP-ES-024-201	A-23	ISI	s	-	-	-	-	-
B7.70GR6	1E11-F008 Bolting		GR 6 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-F009 Bolting	ISI/VT/NMP-ES-024-201	A-23	ISI	s	-	-	-	-	-
B7.70GR6	1E11-F009 Bolting		GR 6VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-F015A Bolting	ISI/VT/NMP-ES-024-201	A-21	ISI	s	-	-	-	-	-
B7.70GR7	1E11-F015A Bolting		GR 7 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-F015B Bolting	ISI/VT/NMP-ES-024-201	A-22	ISI	s	-	-	-	-	-
B7.70GR7	1E11-F015B Bolting		GR 7 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-F067 Bolting	ISI/VT/NMP-ES-024-201	A-23	ISI	s	-	-	-	-	-
B7.70GR8	1E11-F067 Bolting		GR 8 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-2	H1 1E11-F050A Bolting	ISI/VT/NMP-ES-024-201	A-21	ISI	S	-	-	-	-	-
B7.70GR9	1E11-F050A Bolting		GR 9 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-G-2	H1 1E11-F050B Bolting	ISI/VT/NMP-ES-024-201	A-22	ISI	S	-	-	-	-	-
B7.70GR9	1E11-F050B Bolting		GR 9 VB EXAMINE IF DISASSEMBLED	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1		Period 2		Period 3	
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-G-2	H1 1B11\FLANGE BOLTING	ISI//	1-BN-14-1	ISI	-	-	-	-	-
B7.80	1B11\FLANGE BOLTING		CRD HOUSING FB EXAMINE IF RE-USED	AUG	-	-	-	-	-
1	B11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1CHSV-4-1		A-3	ISI	-	-	-	-	-	-
B9.11	1B21-1CHSV-4-1		4" DIA. NOZZLE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-1	ISI/UT/NMP-ES-024-502	A-10	ISI	s	-	-	-	-	-
B9.11	1B21-1FW-12AA-1		TEE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-10		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-11		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-12		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-12		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-13		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-14		A-10	ISI	-	-	-	-	s	-
B9.11	1B21-1FW-12AA-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-15	AUG//	A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-15		PIPE TO TRANSITION PIECE	AUG	-	s	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-16		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-16		TRANSITION PIECE TO NOZZLE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-2		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1FW-12AA-3	ISI//	A-10	ISI	-	s	-	-	-	-
B9.11	1B21-1FW-12AA-3	ISI//	PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-4		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-5		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-6	ISI//	A-10	ISI	-	-	-	s	-	-
B9.11	1B21-1FW-12AA-6	ISI//	ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-7		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-8		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AA-9		A-10	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AA-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AB-1		A-11	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AB-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AB-10		A-11	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AB-10		TRANSITION PIECE TO NOZZLE	AUG	-	s	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AB-2		A-11	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AB-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1FW-12AB-3		A-11	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AB-3		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AB-4		A-11	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AB-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AB-5		A-11	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AB-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AB-6		A-11	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AB-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AB-7		A-11	ISI	-	-	-	s	-	-
B9.11	1B21-1FW-12AB-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AB-8		A-11	ISI	-	-	-	-	s	-
B9.11	1B21-1FW-12AB-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12AB-9		A-11	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12AB-9		PIPE TO TRANSITION PIECE	AUG	-	s	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BC-1		A-12	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BC-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BC-10		A-12	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BC-10		TRANSITION PIECE TO NOZZLE	AUG	-	s	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BC-2	ISI//	A-12	ISI	-	s	-	-	-	-
B9.11	1B21-1FW-12BC-2	ISI//	PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1FW-12BC-3		A-12	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BC-3		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BC-4		A-12	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BC-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BC-5		A-12	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BC-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BC-6		A-12	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BC-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BC-7		A-12	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BC-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BC-8		A-12	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BC-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BC-9		A-12	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BC-9		PIPE TO TRANSITION PIECE	AUG	-	s	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-1		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-1		TEE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-10		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-11		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-11		PIPE TO ELBOW TRANSITION PIECE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1FW-12BD-12		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-12		ELBOW TO PIPE NOZZLE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-13		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-14		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-15	ISI//	A-13	ISI	-	s	-	-	-	-
B9.11	1B21-1FW-12BD-15	ISI//	PIPE TO TRANSITION PIECE	AUG	-	-	-	-	-	-
1	B21	ISI//		OWN	-	-	-	-	-	-
		ISI//		PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-16	ISI//	A-13	ISI	-	s	-	-	-	-
B9.11	1B21-1FW-12BD-16	ISI//	TRANSITION PIECE TO NOZZLE	AUG	-	-	-	-	-	-
1	B21	ISI//		OWN	-	-	-	-	-	-
		ISI//		PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-2		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-3	ISI//	A-13	ISI	-	s	-	-	-	-
B9.11	1B21-1FW-12BD-3	ISI//	PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-4		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-5		A-13	ISI	-	-	-	s	-	-
B9.11	1B21-1FW-12BD-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-6		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1FW-12BD-7		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-8		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-12BD-9		A-13	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-12BD-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-11		A-8	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18A-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-12		A-8	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18A-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-13		A-8	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18A-13		ELBOW TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-14		A-8	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18A-14		VALVE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-15	ISI/UT/NMP-ES-024-502	A-8	ISI	s	-	-	-	-	-
B9.11	1B21-1FW-18A-15		ELBOW TO TEE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-16		A-8	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18A-16		TEE TO REDUCER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-5	ISI//	A-8	ISI	-	s	-	-	-	-
B9.11	1B21-1FW-18A-5	ISI//	VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1FW-18A-6		A-8	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18A-6		PIPE TO TEE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-7		A-8	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18A-7		TEE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-7A		A-8	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18A-7A		FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-8		A-8	ISI	-	-	-	S	-	-
B9.11	1B21-1FW-18A-8		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18A-9		A-8	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18A-9		VALVE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-10		A-9	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18B-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-11		A-9	ISI	-	-	-	-	S	-
B9.11	1B21-1FW-18B-11		ELBOW TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-12		A-9	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18B-12		VALVE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-13		A-9	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18B-13		ELBOW TO TEE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-14		A-9	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18B-14		TEE TO REDUCER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1FW-18B-4	ISI//	A-9	ISI	-	s	-	-	-	-
B9.11	1B21-1FW-18B-4	ISI//	VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-5		A-9	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18B-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-5BC	ISI//	A-9	ISI	-	s	-	-	-	-
B9.31	1B21-1FW-18B-5BC	ISI//	PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-6		A-9	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18B-6		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-6A		A-9	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18B-6A		FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-7		A-9	ISI	-	-	-	s	-	-
B9.11	1B21-1FW-18B-7		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-8		A-9	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18B-8		VALVE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1FW-18B-9		A-9	ISI	-	-	-	-	-	-
B9.11	1B21-1FW-18B-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-1		A-4	ISI	-	-	-	s	-	-
B9.11	1B21-1MS-24A-1		NOZZLE TO TRANSITION PIECE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-10		A-4	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24A-11		A-4A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-11		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-12		A-4A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-13		A-4A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-14		A-4A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-15		A-4A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-16		A-4A	ISI	-	-	-	-	s	-
B9.11	1B21-1MS-24A-16		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-17		A-4A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-17		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-17A		A-4A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-17A		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-18	ISI//	A-4A	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24A-18	ISI//	FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-19		A-4A	ISI	-	-	-	s	-	-
B9.11	1B21-1MS-24A-19		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24A-2	ISI//	A-4	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24A-2	ISI//	TRANSITION PIECE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-3		A-4	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-4		A-4	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-5		A-4	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-6		A-4	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-7		A-4	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-8		A-4	ISI	-	-	-	-	s	-
B9.11	1B21-1MS-24A-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-8BC-1	ISI//	A-4	ISI	-	s	-	-	-	-
B9.31	1B21-1MS-24A-8BC-1	ISI//	PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-8BC-2	ISI/UT/	A-4	ISI	-	-	-	-	s	-
B9.31	1B21-1MS-24A-8BC-2		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24A-9		A-4	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24A-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24B-1	ISI//	A-5	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24B-1	ISI//	NOZZLE TO TRANSITION PIECE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-10		A-5	ISI	-	-	-	-	s	-
B9.11	1B21-1MS-24B-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-11	ISI/UT/NMP-ES-024-502	A-5	ISI	s	-	-	-	-	-
B9.11	1B21-1MS-24B-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-12		A-5A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-12		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-13	ISI//	A-5A	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24B-13	ISI//	PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-14		A-5A	ISI	-	-	-	s	-	-
B9.11	1B21-1MS-24B-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-15		A-5A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-15		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-16		A-5A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-16		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-16A		A-5A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-16A		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-17	ISI//	A-5A	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24B-17	ISI//	FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24B-18		A-5A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-18		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-2		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-2		TRANSITION PIECE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-3	ISI//	A-5	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24B-3	ISI//	PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-4		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-5		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-6		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-6BC		A-5	ISI	-	-	-	-	-	-
B9.31	1B21-1MS-24B-6BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-7		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-8		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-8BC-1		A-5	ISI	-	-	-	-	-	-
B9.31	1B21-1MS-24B-8BC-1		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24B-8BC-2		A-5	ISI	-	-	-	-	-	-
B9.31	1B21-1MS-24B-8BC-2		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-8BC-3		A-5	ISI	-	-	-	-	-	-
B9.31	1B21-1MS-24B-8BC-3		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-8BC-4		A-5	ISI	-	-	-	-	-	-
B9.31	1B21-1MS-24B-8BC-4		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24B-9		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24B-9		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-1		A-6	ISI	-	-	-	-	s	-
B9.11	1B21-1MS-24C-1		NOZZLE TO TRANSITION PIECE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-10		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-11		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-12		A-6A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-12		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-13		A-6A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-14		A-6A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24C-15		A-6A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-15		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-16		A-6A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-16		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-16A		A-6A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-16A		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-17		A-6A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-17		FLUED HEAD	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-18		A-6A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-18		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-19		A-6A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-19		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-2	ISI//	A-6	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24C-2	ISI//	TRANSITION PIECE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-20	ISI//	A-6A	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24C-20	ISI//	PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-3		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-4		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24C-5		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-6		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-7		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-8		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-8BC-1		A-6	ISI	-	-	-	-	s	-
B9.31	1B21-1MS-24C-8BC-1		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-8BC-2		A-6	ISI	-	-	-	-	-	-
B9.31	1B21-1MS-24C-8BC-2		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-8BC-3		A-6	ISI	-	-	-	-	-	-
B9.31	1B21-1MS-24C-8BC-3		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24C-9		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24C-9		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-1		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-1		NOZZLE TO TRANSITION PIECE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-10		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24D-11		A-7A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-11		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-12		A-7A	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24D-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-13		A-7A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-14		A-7A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-15		A-7A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-16		A-7A	ISI	-	-	-	s	-	-
B9.11	1B21-1MS-24D-16		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-17		A-7A	ISI	-	-	-	s	-	-
B9.11	1B21-1MS-24D-17		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-17A		A-7A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-17A		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-18	ISI//	A-7A	ISI	-	s	-	-	-	-
B9.11	1B21-1MS-24D-18	ISI//	FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-19		A-7A	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-19		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24D-2		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-2		TRANSITION PIECE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-3		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-4		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-5		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-6		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-7		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-8		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-8BC		A-7	ISI	-	-	-	-	-	-
B9.32	1B21-1MS-24D-8BC		PIPE TO BC	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-8BC-1		A-7	ISI	-	-	-	-	-	-
B9.31	1B21-1MS-24D-8BC-1		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-24D-8BC-2		A-7	ISI	-	-	-	-	-	-
B9.31	1B21-1MS-24D-8BC-2		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-24D-9		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-24D-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8A-ASR-1		A-4	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8A-ASR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8A-ASR-2	ISI/UT/NMP-ES-024-502	A-4	ISI	s	-	-	-	-	-
B9.11	1B21-1MS-8A-ASR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8A-BSR-1		A-4	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8A-BSR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8A-BSR-2		A-4	ISI	-	-	-	-	s	-
B9.11	1B21-1MS-8A-BSR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8B-ASR-1		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8B-ASR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8B-ASR-2		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8B-ASR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8B-BSR-1	ISI/UT/NMP-ES-024-502	A-5	ISI	s	-	-	-	-	-
B9.11	1B21-1MS-8B-BSR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8B-BSR-2		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8B-BSR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8B-CSR-1		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8B-CSR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-8B-CSR-2		A-5	ISI	-	-	-	-	s	-
B9.11	1B21-1MS-8B-CSR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8B-DSR-1		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8B-DSR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8B-DSR-2		A-5	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8B-DSR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8C-ASR-1		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8C-ASR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8C-ASR-2		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8C-ASR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8C-BSR-1		A-6	ISI	-	-	s	-	-	-
B9.11	1B21-1MS-8C-BSR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8C-BSR-2		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8C-BSR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8C-CSR-1		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8C-CSR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8C-CSR-2		A-6	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8C-CSR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8D-ASR-1		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8D-ASR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1B21-1MS-8D-ASR-2		A-7	ISI	-	-	-	-	s	-
B9.11	1B21-1MS-8D-ASR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8D-BSR-1		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8D-BSR-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1B21-1MS-8D-BSR-2		A-7	ISI	-	-	-	-	-	-
B9.11	1B21-1MS-8D-BSR-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-10		A-23	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-20B-D-10		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-10A		A-23	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-20B-D-10A		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-11	ISI/UT/	A-23	ISI	-	-	-	-	s	-
B9.11	1E11-1RHR-20B-D-11		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-12		A-23	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-20B-D-12		VALVE TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-13		A-23	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-20B-D-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-13A		A-23	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-20B-D-13A		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-14		A-23	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-20B-D-14		FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E11-1RHR-20B-D-15		A-23	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-20B-D-15		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-6	ISI//	A-23	ISI	-	s	-	-	-	-
B9.11	1E11-1RHR-20B-D-6	ISI//	VALVE TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-7	ISI/UT/	A-23	ISI	-	-	-	-	-	s
B9.11	1E11-1RHR-20B-D-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-8		A-23	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-20B-D-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-20B-D-9		A-23	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-20B-D-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24A-R-10		A-21	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24A-R-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24A-R-11	ISI/UT/	A-21	ISI	-	-	-	-	-	s
B9.11	1E11-1RHR-24A-R-11		ELBOW TO VALVE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24A-R-3		A-21	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24A-R-3		VALVE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24A-R-3A		A-21	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24A-R-3A		FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24A-R-4	ISI//	A-21	ISI	-	s	-	-	-	-
B9.11	1E11-1RHR-24A-R-4		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E11-1RHR-24A-R-5		A-21	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24A-R-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24A-R-6		A-21	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24A-R-6		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24A-R-7	ISI//	A-21	ISI	-	-	-	s	-	-
B9.11	1E11-1RHR-24A-R-7		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24A-R-8		A-21	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24A-R-8		ELBOW TO VALVE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24A-R-9	ISI//	A-21	ISI	-	s	-	-	-	-
B9.11	1E11-1RHR-24A-R-9	ISI//	VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-10A		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-10A		VALVE TO REDUCER	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-10B	ISI//	A-22	ISI	-	-	-	-	s	-
B9.11	1E11-1RHR-24B-R-10B		REDUCER TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-11		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-11		ELBOW TO VALVE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-3		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-3		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-3A		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-3A		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E11-1RHR-24B-R-4	ISI//	A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-5		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-5		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-6		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-7		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-8		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-9A		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-9A		PIPE TO REDUCER	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-24B-R-9B		A-22	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-24B-R-9B		REDUCER TO VALVE	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-9A-HS-1		A-25	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-9A-HS-1		5 3/4" DIA. FLANGE TO NOZZLE N6A	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E11-1RHR-9B-HS-1		A-25	ISI	-	-	-	-	-	-
B9.11	1E11-1RHR-9B-HS-1		5 3/4" DIA. FLANGE TO NOZZLE N6B	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-10A		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-10A		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E21-1CS-10A-11A		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-11A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-12A		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-12A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-13A		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-13A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-14A		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-14A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-15A		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-15A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-16A		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-16A		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-17A		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-17A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-2	ISI/UT/NMP-ES-024-502	A-26	ISI	s	-	-	-	-	-
B9.11	1E21-1CS-10A-2		VALVE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-2A	ISI//	A-26	ISI	-	-	-	-	s	-
B9.11	1E21-1CS-10A-2A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-3		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-3		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E21-1CS-10A-3A		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-3A		FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-4		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-5		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-6		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-6		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-7		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-7		VALVE TO ELBOW	AUG	-	-	-	-	s	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-8		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10A-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10A-9	ISI//	A-26	ISI	-	s	-	-	-	-
B9.11	1E21-1CS-10A-9	ISI//	PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-10		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-10		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-11A		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-11A		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-12A		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-12A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E21-1CS-10B-13A		A-27	ISI	-	-	-	-	s	-
B9.11	1E21-1CS-10B-13A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-14A		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-14A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-15A		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-15A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-16A		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-16A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-17A		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-17A		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-18A		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-18A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-2		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-2		VALVE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-3		A-27	ISI	-	-	-	-	s	-
B9.11	1E21-1CS-10B-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-4		A-27	ISI	-	-	-	s	-	-
B9.11	1E21-1CS-10B-4		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-4A		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-4A		FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E21-1CS-10B-5		A-27	ISI	-	-	-	-	s	-
B9.11	1E21-1CS-10B-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-6		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-7		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-7		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-8		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-8		VALVE TO ELBOW	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-1CS-10B-9		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-1CS-10B-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-2CS-10A-4	ISI//	A-26	ISI	-	-	-	-	s	-
B9.11	1E21-2CS-10A-4		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-2CS-10A-5		A-26	ISI	-	-	-	-	-	-
B9.11	1E21-2CS-10A-5		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-2CS-10B-5		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-2CS-10B-5		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E21-2CS-10B-6		A-27	ISI	-	-	-	-	-	-
B9.11	1E21-2CS-10B-6		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-1	ISI//	A-28	ISI	-	-	-	s	-	-
B9.11	1E41-1HPCI-10-D-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E41-1HPCI-10-D-10		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-11		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-12		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-12		PIPE TO TEE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-13		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-13		TEE TO CAP	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-14		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-14		TEE TO VALVE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-15		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-15		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-15A		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-15A		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-16		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-16		FLUED HEAD TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-17		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-17		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-2		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E41-1HPCI-10-D-3	ISI/UT/	A-28	ISI	-	-	-	-	-	S
B9.11	1E41-1HPCI-10-D-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-4		A-28	ISI	-	-	-	-	S	-
B9.11	1E41-1HPCI-10-D-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-5		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-5		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-6		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-6A		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-6A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-6B		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-6B		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-6C	ISI//	A-28	ISI	-	S	-	-	-	-
B9.11	1E41-1HPCI-10-D-6C	ISI//	PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-7		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-8	ISI//	A-28	ISI	-	-	-	-	S	-
B9.11	1E41-1HPCI-10-D-8	ISI//	PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-10-D-9		A-28	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-10-D-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E41-1HPCI-14-R-10		A-29	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-14-R-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-14-R-11		A-29	ISI	-	-	-	-	s	-
B9.11	1E41-1HPCI-14-R-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-14-R-11BC		A-29	ISI	-	-	-	-	s	-
B9.32	1E41-1HPCI-14-R-11BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-14-R-12		A-29	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-14-R-12		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-14-R-2		A-29	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-14-R-2		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-14-R-3		A-29	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-14-R-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-14-R-4		A-29	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-14-R-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-14-R-5		A-29	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-14-R-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-14-R-6		A-29	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-14-R-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E41-1HPCI-14-R-7		A-29	ISI	-	-	-	-	-	-
B9.11	1E41-1HPCI-14-R-7		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E51-1RCIC-4-D-13		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-13		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-14		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-15		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-16	ISI/UT/	A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-16		ELBOW TO TEE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-17		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-17		TEE TO CAP	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-18		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-18		TEE TO VALVE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-19	ISI/UT/	A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-19		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-20		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-20		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-20A		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-20A		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-21		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-21		FLUED HEAD TO ELBOW	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E51-1RCIC-4-D-22	ISI/UT/	A-30	ISI	-	-	-	-	-	s
B9.11	1E51-1RCIC-4-D-22		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-23		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-23		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-3		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-3		REDUCER TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-4		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-5		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-6		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-7		A-30	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-D-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-8	ISI//	A-30	ISI	-	s	-	-	-	-
B9.11	1E51-1RCIC-4-D-8	ISI//	PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-D-9	ISI/UT/	A-30	ISI	-	-	-	-	-	s
B9.11	1E51-1RCIC-4-D-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-R-10		A-31	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-R-10		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E51-1RCIC-4-R-11		A-31	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-R-11		PIPE TO REDUCER	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-R-2		A-31	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-R-2		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-R-3		A-31	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-R-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-R-4		A-31	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-R-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-R-5		A-31	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-R-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-R-6		A-31	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-R-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-R-7	ISI//	A-31	ISI	-	s	-	-	-	-
B9.11	1E51-1RCIC-4-R-7	ISI//	PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-R-8		A-31	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-4-R-8		ELBOW TO TEE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-4-R-9		A-31	ISI	-	-	-	-	s	-
B9.11	1E51-1RCIC-4-R-9		TEE TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1E51-1RCIC-6-R-1		A-31	ISI	-	-	-	-	s	-
B9.11	1E51-1RCIC-6-R-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-J	H1 1E51-1RCIC-6-R-2		A-31	ISI	-	-	-	-	-	-
B9.11	1E51-1RCIC-6-R-2		PIPE TO TEE	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1G31-1RWCU-3-R-37		A-33	ISI	-	-	-	-	-	-
B9.32	1G31-1RWCU-3-R-37		VALVE FO39 FLANGE TO EXPANDER	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1G31-1RWCU-4-R-38A	ISI//	A-33	ISI	-	s	-	-	-	-
B9.11	1G31-1RWCU-4-R-38A		EXPANDER TO ELBOW	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1G31-1RWCU-4-R-40		A-33	ISI	-	-	-	-	-	-
B9.11	1G31-1RWCU-4-R-40		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-J	H1 1G31-1RWCU-4-R-41		A-33	ISI	-	-	-	-	-	-
B9.11	1G31-1RWCU-4-R-41		PIPE TO TEE	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
NB-J	H1 1B31-28A-8BC-1		A-43	ISI	-	-	-	-	-	-
NB9.32	1B31-28A-8BC-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-28B-9BC-1		A-43	ISI	-	-	-	-	-	-
NB9.32	1B31-28B-9BC-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2A-1		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2A-1		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2A-2		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2A-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2A-3		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2A-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2A-4	ISI/PT/	A-43	ISI	-	-	-	s	-	-
NB9.40	1B31-1RC-2A-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2A-5	ISI/PT/	A-43	ISI	-	-	-	s	-	-
NB9.40	1B31-1RC-2A-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2A-6		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2A-6		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2A-7		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2A-7		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2A-8		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2A-8		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
NB-J	H1 1B31-1RC-2B-1		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2B-1		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2B-2	ISI/PT/	A-43	ISI	-	-	-	s	-	-
NB9.40	1B31-1RC-2B-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2B-3	ISI/PT/	A-43	ISI	-	-	-	s	-	-
NB9.40	1B31-1RC-2B-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2B-4		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2B-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2B-5		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2B-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2B-6		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2B-6		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2B-7		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2B-7		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2B-8		A-43	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2B-8		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-1		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-1		RPV DRAIN TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-10		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
NB-J	H1 1B31-1RC-2DR-11		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-12		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-13		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-14		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-14		PIPE TO TEE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-15		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-15		TEE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-16		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-16		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-17		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-17		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-18		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-18		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-19		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-19		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-2		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-2		PIPE TO TEE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
NB-J NB9.40 1	H1 1B31-1RC-2DR-20 1B31-1RC-2DR-20 B31	ISI//	A-41 PIPE TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	s - - -	- - - -			
NB-J NB9.40 1	H1 1B31-1RC-2DR-21 1B31-1RC-2DR-21 B31	ISI//	A-41 TEE TO FITTING	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	s - - -	- - - -			
NB-J NB9.40 1	H1 1B31-1RC-2DR-22 1B31-1RC-2DR-22 B31	ISI/PT/	A-41 PIPE TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	s - - -	- - - -			
NB-J NB9.40 1	H1 1B31-1RC-2DR-23 1B31-1RC-2DR-23 B31	ISI/PT/	A-41 PIPE TO ELBOW	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	s - - -	- - - -			
NB-J NB9.40 1	H1 1B31-1RC-2DR-24 1B31-1RC-2DR-24 B31	ISI/PT/	A-41 ELBOW TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	s - - -	- - - -			
NB-J NB9.40 1	H1 1B31-1RC-2DR-25 1B31-1RC-2DR-25 B31	ISI//	A-41 PIPE TO ELBOW	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	s - - -	- - - -			
NB-J NB9.40 1	H1 1B31-1RC-2DR-26 1B31-1RC-2DR-26 B31		A-41 ELBOW TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -			
NB-J NB9.40 1	H1 1B31-1RC-2DR-27 1B31-1RC-2DR-27 B31		A-41 PIPE TO ELBOW	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -			
NB-J NB9.40 1	H1 1B31-1RC-2DR-28 1B31-1RC-2DR-28 B31	ISI/PT/	A-41 ELBOW TO PIPE	ISI AUG OWN PRE	- - - -	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -			
NB-J NB9.40 1	H1 1B31-1RC-2DR-29 1B31-1RC-2DR-29 B31	ISI/PT/	A-41 PIPE TO ELBOW	ISI AUG OWN PRE	- - - -	s - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -			

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
NB-J	H1 1B31-1RC-2DR-3		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-3		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-30	ISI/PT/	A-41	ISI	-	s	-	-	-	-
NB9.40	1B31-1RC-2DR-30		ELBOW TO BEND	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-31		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-31		BEND TO VALVE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-32		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-32		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-33		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-33		PIPE TO TEE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-34		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-34		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-35		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-35		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-36		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-36		PIPE TO REDUCER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-37		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-37		REDUCER TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-38		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-38		PIPE TO REDUCER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
NB-J	H1 1B31-1RC-2DR-39		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-39		TEE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-4		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-4		REDUCER TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-40		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-40		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-41		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-41		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-42		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-42		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-43		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-43		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-44		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-44		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-45		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-45		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-46	ISI/PT/	A-41	ISI	-	-	-	-	-	S
NB9.40	1B31-1RC-2DR-46		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-47	ISI/PT/	A-41	ISI	-	-	-	-	-	S
NB9.40	1B31-1RC-2DR-47		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
NB-J	H1 1B31-1RC-2DR-48	ISI/PT/	A-41	ISI	-	-	-	-	-	s
NB9.40	1B31-1RC-2DR-48		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-49		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-49		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-5		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-50		A-41	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-50		PIPE TO TEE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-6		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-7		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-8		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1B31-1RC-2DR-9		A-40	ISI	-	-	-	-	-	-
NB9.40	1B31-1RC-2DR-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-1	ISI/PT/	A-45	ISI	-	-	-	-	s	-
NB9.40	1C41-1SBLC-1.5-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-10	ISI/PT/	A-45	ISI	-	s	-	-	-	-
NB9.40	1C41-1SBLC-1.5-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
NB-J	H1 1C41-1SBLC-1.5-11	ISI/PT/	A-45	ISI	-	s	-	-	-	-
NB9.40	1C41-1SBLC-1.5-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-12	ISI/PT/	A-45	ISI	-	s	-	-	-	-
NB9.40	1C41-1SBLC-1.5-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-13		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-14		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-15		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-16		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-16		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-17		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-17		PIPE TO REDUCER	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-18		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-18		TEE TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-19		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-19		PIPE TO VALVE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-2	ISI/PT/	A-45	ISI	-	-	s	-	-	-
NB9.40	1C41-1SBLC-1.5-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
NB-J	H1 1C41-1SBLC-1.5-20		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-20		VALE TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-21		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-21		PIPE TO FLOW ELEMENT	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-22		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-22		FLOW ELEMENT TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-23		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-23		PIPE TO FLOW ELEMENT	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-24		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-24		FLOW ELEMENT TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-25	ISI/PT/	A-45	ISI	-	-	-	-	-	s
NB9.40	1C41-1SBLC-1.5-25		PIPE TO ELBOW	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-26	ISI/PT/	A-45	ISI	-	-	-	-	-	s
NB9.40	1C41-1SBLC-1.5-26		ELBOW TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-27	ISI/PT/	A-45	ISI	-	-	-	-	-	s
NB9.40	1C41-1SBLC-1.5-27		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-28		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-28		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
NB-J	H1 1C41-1SBLC-1.5-29		A-45	ISI	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-29		TEE TO PIPE	AUG	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-3 1C41-1SBLC-1.5-3 C41	ISI/PT/	A-45 ELBOW TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- s - -	- - - -	- - - -	- - - -
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-30 1C41-1SBLC-1.5-30 C41		A-45 PIPE TO INSERT	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-31 1C41-1SBLC-1.5-31 C41	ISI/PT/	A-44 PIPE TO ELBOW	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	s - - -	- - - -
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-32 1C41-1SBLC-1.5-32 C41		A-44 ELBOW TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-33 1C41-1SBLC-1.5-33 C41		A-44 PIPE TO NOZZLE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-4 1C41-1SBLC-1.5-4 C41		A-45 PIPE TO TEE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-5 1C41-1SBLC-1.5-5 C41		A-45 TEE TO REDUCER	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-6 1C41-1SBLC-1.5-6 C41		A-45 PIPE TO PENETRATON	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-7 1C41-1SBLC-1.5-7 C41		A-45 PENETRATION TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
NB-J NB9.40 1	H1 1C41-1SBLC-1.5-8 1C41-1SBLC-1.5-8 C41		A-45 PIPE TO VALVE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -

HNP-1 Fourth Interval Class 1 ISI Plan
Southern Nuclear Operating Company

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1				Period 2				Period 3			
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27	1HR28	1HR29	1HR30	1HR31		
NB-J	H1 1C41-1SBLC-1.5-9		A-45	ISI	-	-	-	-	-	-	-	-	-	-	-	-
NB9.40	1C41-1SBLC-1.5-9		VALVE TO PIPE	AUG	-	-	-	-	-	-	-	-	-	-	-	-
1	C41			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-K	H1 1B11\C-6	ISI/MT/	A-1A	ISI	-	s	-	-	-	-
B10.10	1B11\C-6		SUPPORT SKIRT	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B11\SB1		A-36, 1-BH-1	ISI	-	-	-	-	-	-
B10.10	1B11\SB1		STABILIZER BRACKET 1 (See N-700)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B11\SB2		A-36	ISI	-	-	-	-	-	-
B10.10	1B11\SB2		STABILIZER BRACKET 2 (See N-700)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B11\SB3		A-36, 1-BH-1	ISI	-	-	-	-	-	-
B10.10	1B11\SB3		STABILIZER BRACKET 3 (See N-700)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B11\SB4		A-36, 1-BH-1	ISI	-	-	-	-	-	-
B10.10	1B11\SB4		STABILIZER BRACKET 4 (See N-700)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-12AA-8HL-1 THRU 4		A-10	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-12AA-8HL-1 THRU 4		B21-FDH-3	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-12AB-1PS-A		A-11	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-12AB-1PS-A		B21-FDH-13	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-12AB-1PS-B		A-11	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-12AB-1PS-B		B21-FDH-2	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-12AB-1PS-D		A-11	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-12AB-1PS-D		B21-FDH-1	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-12BC-1PS-A		A-12	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-12BC-1PS-A		B21-FDH-14	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-K	H1 1B21-1FW-12BC-1PS-B		A-12	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-12BC-1PS-B		B21-FDH-6	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-12BC-1PS-C		A-12	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-12BC-1PS-C		B21-FDH-17	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-12BC-1PS-D		A-12	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-12BC-1PS-D		B21-FDH-5	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-12BD-8HL-1 THRU 4		A-13	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-12BD-8HL-1 THRU 4		B21-FDH-7	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-18A-11HL-1 THRU 4		A-8	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-18A-11HL-1 THRU 4		B21-FDH-12	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-18A-11HL-5 THRU 8		A-8	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-18A-11HL-5 THRU 8		B21-FDH-8	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-18A-12PS		A-8	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-18A-12PS		B21-FDH-700	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1FW-18B-9HL-1 THRU 2		A-9	ISI	-	-	-	-	-	-
B10.20	1B21-1FW-18B-9HL-1 THRU 2		B21-FDH-11	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24A-15SL-1 THRU 4		A-4A	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24A-15SL-1 THRU 4		B21-GA1	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24A-5HL-1 THRU 4		A-4	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24A-5HL-1 THRU 4		B21-MS-HA1	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-K	H1 1B21-1MS-24A-8HL-1 THRU 8		A-4	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24A-8HL-1 THRU 8		B21-SS2	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24A-8PS-A-1 AND 2		A-4	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24A-8PS-A-1 AND 2		B21-HA2	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24A-8PS-B-1 AND 2		A-4	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24A-8PS-B-1 AND 2		B21-HA2	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24A-8PS-C-1 AND 2		A-4	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24A-8PS-C-1 AND 2		B21-HA3	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24A-8PS-D-1 AND 2		A-4	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24A-8PS-D-1 AND 2		B21-HA3	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24B-14SL-1 THRU 4		A-5A	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24B-14SL-1 THRU 4		B21-GB1	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24B-5HL-1 THRU 4		A-5	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24B-5HL-1 THRU 4		B21-HB1	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24B-8HL-1 THRU 8		A-5	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24B-8HL-1 THRU 8		B21-SS6	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24B-8PS-A-1 AND 2		A-5	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24B-8PS-A-1 AND 2		B21-HB2	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24B-8PS-B-1 AND 2		A-5	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24B-8PS-B-1 AND 2		B21-HB2	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-K	H1 1B21-1MS-24B-8PS-C-1 AND 2		A-5	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24B-8PS-C-1 AND 2		B21-HB3	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24C-14SL-1 THRU 4		A-6A	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24C-14SL-1 THRU 4		B21-GC1	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24C-5HL-1 THRU 4		A-6	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24C-5HL-1 THRU 4		B21-HC1	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24C-8HL-1 THRU 8		A-6	ISI	-	b	-	-	-	-
B10.20	1B21-1MS-24C-8HL-1 THRU 8		B21-SS23	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24C-8PS-A-1 AND 2		A-6	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24C-8PS-A-1 AND 2		B21-HC2	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24C-8PS-B-1 AND 2		A-6	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24C-8PS-B-1 AND 2		B21-HC2	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24C-9PS-D-1 AND 2		A-6	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24C-9PS-D-1 AND 2		B21-HC3	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24D-15SL-1 THRU 4		A-7A	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24D-15SL-1 THRU 4		B21-GD1	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24D-5HL-1 THRU 4		A-7	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24D-5HL-1 THRU 4		B21-HD1	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B21-1MS-24D-8HL-1 THRU 8		A-7	ISI	-	-	-	-	-	-
B10.20	1B21-1MS-24D-8HL-1 THRU 8		B21-SS37	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-K B10.20 1	H1 1B21-1MS-24D-8PS-A-1 AND 2 1B21-1MS-24D-8PS-A-1 AND 2 B21		A-7 B21-HD2	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K B10.20 1	H1 1B21-1MS-24D-8PS-B-1 AND 2 1B21-1MS-24D-8PS-B-1 AND 2 B21		A-7 B21-HD2	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K B10.20 1	H1 1B21-1MS-24D-8PS-C-1 AND 2 1B21-1MS-24D-8PS-C-1 AND 2 B21		A-7 B21-HD3	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K B10.20 1	H1 1B21-1MS-24D-8PS-D-1 AND 2 1B21-1MS-24D-8PS-D-1 AND 2 B21		A-7 B21-HD3	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K B10.20 1	H1 1B31-1RC-22AM-1HL-A-1 AND 2 1B31-1RC-22AM-1HL-A-1 AND 2 B31		A-16 B31-HA4	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K B10.20 1	H1 1B31-1RC-22AM-1HL-B-1 AND 2 1B31-1RC-22AM-1HL-B-1 AND 2 B31	ISI/PT/	A-16 B31-HA4	ISI	-	-	-	-	s	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K B10.20 1	H1 1B31-1RC-22AM-3HL-A-1 AND 2 1B31-1RC-22AM-3HL-A-1 AND 2 B31		A-16 B31-HA3	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K B10.20 1	H1 1B31-1RC-22AM-3HL-B-1 AND 2 1B31-1RC-22AM-3HL-B-1 AND 2 B31		A-16 B31-HA3	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K B10.20 1	H1 1B31-1RC-22BM-1HL-A-1 AND 2 1B31-1RC-22BM-1HL-A-1 AND 2 B31		A-17 B31-HB4	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K B10.20 1	H1 1B31-1RC-22BM-1HL-B-1 AND 2 1B31-1RC-22BM-1HL-B-1 AND 2 B31		A-17 B31-HB4	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-K	H1 1B31-1RC-22BM-3HL-A-1 AND 2		A-17	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-22BM-3HL-A-1 AND 2		B31-HB3	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31-1RC-22BM-3HL-B-1 AND 2		A-17	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-22BM-3HL-B-1 AND 2		B31-HB3	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31-1RC-28A-14HL-1 THRU 4		A-14B	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-28A-14HL-1 THRU 4		B31-HA2	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31-1RC-28A-15RL-1 AND 2		A-14B	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-28A-15RL-1 AND 2		B31-SSA13	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31-1RC-28A-15RL-3 AND 4		A-14B	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-28A-15RL-3 AND 4		B31-SSA12	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31-1RC-28A-5HL-1 THRU 4		A-14	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-28A-5HL-1 THRU 4		B31-HA1	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31-1RC-28B-15HL-1 THRU 4		A-15B	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-28B-15HL-1 THRU 4		B31-HB2	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31-1RC-28B-16RL-1 AND 2		A-15B	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-28B-16RL-1 AND 2		B31-SSB13	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31-1RC-28B-16RL-3 AND 4		A-15B	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-28B-16RL-3 AND 4		B31-SSB12	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31-1RC-28B-6HL-1 THRU 4		A-15	ISI	-	-	-	-	-	-
B10.20	1B31-1RC-28B-6HL-1 THRU 4		B31-HB1	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-K	H1 1E11-1RHR-20B-D-13PS		A-23	ISI	-	-	-	-	-	-
B10.20	1E11-1RHR-20B-D-13PS		E11-RHRH-329	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E11-1RHR-20B-D-13RL-1 THRU 4	ISI/MT/	A-23	ISI	-	-	-	-	-	s
B10.20	1E11-1RHR-20B-D-13RL-1 THRU 4		E11-RHRH-813	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E11-1RHR-20B-D-9HL-1 THRU 4		A-23	ISI	-	-	-	-	-	-
B10.20	1E11-1RHR-20B-D-9HL-1 THRU 4		E11-RHRH-328	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E11-1RHR-24A-R-6RL-1 AND 2		A-21	ISI	-	s	-	-	-	-
B10.20	1E11-1RHR-24A-R-6RL-1 AND 2		E11-RHRH-137	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E11-1RHR-24B-R-10HL		A-22	ISI	-	-	-	-	-	-
B10.20	1E11-1RHR-24B-R-10HL		E11-RHRH-143	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E11-1RHR-24B-R-5RL-1 AND 2		A-22	ISI	-	-	-	-	-	-
B10.20	1E11-1RHR-24B-R-5RL-1 AND 2		E11-RHRH-141	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E11-1RHR-4-HS-6RL-1 THRU 4		A-24	ISI	-	-	-	-	-	-
B10.20	1E11-1RHR-4-HS-6RL-1 THRU 4		E11-RHRH-811	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E21-1CS-10A-10AHL-1		A-26	ISI	-	-	-	-	-	-
B10.20	1E21-1CS-10A-10AHL-1		E21-CSH-40	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E21-1CS-10A-4PS		A-26	ISI	-	-	-	-	-	-
B10.20	1E21-1CS-10A-4PS		E21-CSH-80	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E21-1CS-10A-5PS		A-26	ISI	-	-	s	-	-	-
B10.20	1E21-1CS-10A-5PS		E21-CSH-39	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-K	H1 1E21-1CS-10B-11AHL-1		A-27	ISI	-	-	-	-	-	-
B10.20	1E21-1CS-10B-11AHL-1		E21-CSH-34	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E21-1CS-10B-4APL-5 THRU 8		A-27	ISI	-	-	-	-	-	-
B10.20	1E21-1CS-10B-4APL-5 THRU 8		E21-CSH-802	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E21-1CS-10B-6PS-1		A-27	ISI	-	-	-	-	-	-
B10.20	1E21-1CS-10B-6PS-1		E21-CSH-33	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E41-1HPCI-10-D-11HL-1		A-28	ISI	-	-	-	-	-	-
B10.20	1E41-1HPCI-10-D-11HL-1		E41-SS-20	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E41-1HPCI-10-D-7HL-A-1		A-28	ISI	-	-	-	-	-	-
B10.20	1E41-1HPCI-10-D-7HL-A-1		E41-SS-8	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E41-1HPCI-10-D-7HL-B-1 AND 2		A-28	ISI	-	s	-	-	-	-
B10.20	1E41-1HPCI-10-D-7HL-B-1 AND 2		E41-SS-22	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E41-1HPCI-10-D-7SL-A-1 THRU 8		A-28	ISI	-	-	-	-	s	-
B10.20	1E41-1HPCI-10-D-7SL-A-1 THRU 8		E41-HPSEH-52	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E41-1HPCI-10-D-9HL-1 THRU 8		A-28	ISI	-	-	-	-	-	-
B10.20	1E41-1HPCI-10-D-9HL-1 THRU 8		E41-SS-17	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E51-1RCIC-4-D-7HL-1 THRU 8		A-30	ISI	-	-	-	-	-	-
B10.20	1E51-1RCIC-4-D-7HL-1 THRU 8		E51-SS-44	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1E51-1RCIC-4-D-7SL-1 THRU 6		A-30	ISI	-	-	-	-	-	-
B10.20	1E51-1RCIC-4-D-7SL-1 THRU 6		E51-RCSEH-19	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-K	H1 1E51-1RCIC-4-D-9SL		A-30	ISI	-	-	-	-	-	-
B10.20	1E51-1RCIC-4-D-9SL		E51-RCSEH-18	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1G31-1RWCUM-6-D-12-HL-1 THRU 4		A-32	ISI	-	-	-	-	-	-
B10.20	1G31-1RWCUM-6-D-12-HL-1 THRU 4		G31-RWCUH-1	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1G31-1RWCUM-6-D-12-PS-1 THRU 8		A-32	ISI	-	-	-	-	-	-
B10.20	1G31-1RWCUM-6-D-12-PS-1 THRU 8		1G31-1RWCUM-6-D-SM-7	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1G31-1RWCUM-6-D-18-RL-1 THRU 4		A-32	ISI	-	-	-	-	-	-
B10.20	1G31-1RWCUM-6-D-18-RL-1 THRU 4		G31-RWCUH-3	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31\RC-A PUMP LUG-1		A-20	ISI	-	s	-	-	-	-
B10.30	1B31\RC-A PUMP LUG-1		RESTRAINT LUG	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31\RC-A PUMP LUG-2		A-20	ISI	-	-	-	-	-	-
B10.30	1B31\RC-A PUMP LUG-2		RESTRAINT LUG	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31\RC-A PUMP LUG-3		A-20	ISI	-	-	-	-	-	-
B10.30	1B31\RC-A PUMP LUG-3		RESTRAINT LUG	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31\RC-B PUMP LUG-1		A-20	ISI	-	-	-	-	-	-
B10.30	1B31\RC-B PUMP LUG-1		RESTRAINT LUG	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31\RC-B PUMP LUG-2		A-20	ISI	-	-	-	-	-	-
B10.30	1B31\RC-B PUMP LUG-2		RESTRAINT LUG	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-K	H1 1B31\RC-B PUMP LUG-3		A-20	ISI	-	-	-	-	-	-
B10.30	1B31\RC-B PUMP LUG-3		RESTRAINT LUG	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1		Period 2		Period 3	
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-M-2	H1 1B21-F010A Body	ISI/VT/NMP-ES-024-201	A-8	ISI	s	-	-	-	-	-
B12.50G1	1B21-F010A Body		GROUP 1 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F010B Body	ISI/VT/NMP-ES-024-201	A-9	ISI	s	-	-	-	-	-
B12.50G1	1B21-F010B Body		GROUP 1 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F032A Body	ISI/VT/NMP-ES-024-201	A-8	ISI	s	-	-	-	-	-
B12.50G1	1B21-F032A Body		GROUP 1 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F032B Body	ISI/VT/NMP-ES-024-201	A-9	ISI	s	-	-	-	-	-
B12.50G1	1B21-F032B Body		GROUP 1 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E11-F060A Body	ISI/VT/NMP-ES-024-201	A-21	ISI	s	-	-	-	-	-
B12.50G10	1E11-F060A Body		GROUP 10 VALVE BODIES	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E11-F060B Body	ISI/VT/NMP-ES-024-201	A-22	ISI	s	-	-	-	-	-
B12.50G10	1E11-F060B Body		GROUP 10 VALVE BODIES	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E21-F004A Body	ISI/VT/NMP-ES-024-201	A-26	ISI	s	-	-	-	-	-
B12.50G11	1E21-F004A Body		GROUP 11 VALVE BODIES	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E21-F004B Body	ISI/VT/NMP-ES-024-201	A-27	ISI	s	-	-	-	-	-
B12.50G11	1E21-F004B Body		GROUP 11 VALVE BODIES	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E21-F005A Body	ISI/VT/NMP-ES-024-201	A-26	ISI	s	-	-	-	-	-
B12.50G11	1E21-F005A Body		GROUP 11 VALVE BODIES	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E21-F005B Body	ISI/VT/NMP-ES-024-201	A-27	ISI	s	-	-	-	-	-
B12.50G11	1E21-F005B Body		GROUP 11 VALVE BODIES	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, Item NO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-M-2	H1 1E21-F006A Body	ISI/VT/NMP-ES-024-201	A-26	ISI	\$	-	-	-	-	-
B12.50G12	1E21-F006A Body		GROUP 12 VALVE BODIES	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E21-F006B Body	ISI/VT/NMP-ES-024-201	A-27	ISI	\$	-	-	-	-	-
B12.50G12	1E21-F006B Body		GROUP 12 VALVE BODIES	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E21-F007A Body	ISI/VT/NMP-ES-024-201	A-26	ISI	\$	-	-	-	-	-
B12.50G13	1E21-F007A Body		GROUP 13 VALVE BODIES	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E21-F007B Body	ISI/VT/NMP-ES-024-201	A-27	ISI	\$	-	-	-	-	-
B12.50G13	1E21-F007B Body		GROUP 13 VALVE BODIES	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E41-F006 Body	ISI/VT/NMP-ES-024-201	A-29	ISI	\$	-	-	-	-	-
B12.50G14	1E41-F006 Body		GROUP 14 VALVE BODIES	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E41-F002 Body	ISI/VT/NMP-ES-024-201	A-28	ISI	\$	-	-	-	-	-
B12.50G15	1E41-F002 Body		GROUP 15 VALVE BODIES	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E41-F003 Body	ISI/VT/NMP-ES-024-201	A-28	ISI	\$	-	-	-	-	-
B12.50G15	1E41-F003 Body		GROUP 15 VALVE BODIES	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1G31-F001 Body	ISI/VT/NMP-ES-024-201	A-32	ISI	\$	-	-	-	-	-
B12.50G16	1G31-F001 Body		GROUP 16 VALVE BODIES	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1G31-F004 Body	ISI/VT/NMP-ES-024-201	A-32	ISI	\$	-	-	-	-	-
B12.50G16	1G31-F004 Body		GROUP 16 VALVE BODIES	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1G31-F027 Body	ISI/VT/NMP-ES-024-201	A-32	ISI	\$	-	-	-	-	-
B12.50G17	1G31-F027 Body		GROUP 17 VALVE BODIES	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-M-2	H1 1B21-F011A Body	ISI/VT/NMP-ES-024-201	A-8	ISI	s	-	-	-	-	-
B12.50G2	1B21-F011A Body		GROUP 2 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F011B Body	ISI/VT/NMP-ES-024-201	A-9	ISI	s	-	-	-	-	-
B12.50G2	1B21-F011B Body		GROUP 2 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013A Body	ISI/VT/NMP-ES-024-201	A-4	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013A Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013B Body	ISI/VT/NMP-ES-024-201	A-4	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013B Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013C Body	ISI/VT/NMP-ES-024-201	A-5	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013C Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013D Body	ISI/VT/NMP-ES-024-201	A-5	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013D Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013E Body	ISI/VT/NMP-ES-024-201	A-5	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013E Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013F Body	ISI/VT/NMP-ES-024-201	A-6	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013F Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013G Body	ISI/VT/NMP-ES-024-201	A-6	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013G Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013H Body	ISI/VT/NMP-ES-024-201	A-7	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013H Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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B-M-2	H1 1B21-F013J Body	ISI/VT/NMP-ES-024-201	A-7	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013J Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013K Body	ISI/VT/NMP-ES-024-201	A-5	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013K Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F013L Body	ISI/VT/NMP-ES-024-201	A-6	ISI	s	-	-	-	-	-
B12.50G3	1B21-F013L Body		GROUP 3 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F022A Body	ISI/VT/NMP-ES-024-201	A-4A	ISI	s	-	-	-	-	-
B12.50G4	1B21-F022A Body		GROUP 4 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F022B Body	ISI/VT/NMP-ES-024-201	A-5A	ISI	s	-	-	-	-	-
B12.50G4	1B21-F022B Body		GROUP 4 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F022C Body	ISI/VT/NMP-ES-024-201	A-6A	ISI	s	-	-	-	-	-
B12.50G4	1B21-F022C Body		GROUP 4 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F022D Body	ISI/VT/NMP-ES-024-201	A-7A	ISI	s	-	-	-	-	-
B12.50G4	1B21-F022D Body		GROUP 4 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F028A Body	ISI/VT/NMP-ES-024-201	A-4A	ISI	s	-	-	-	-	-
B12.50G4	1B21-F028A Body		GROUP 4 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F028B Body	ISI/VT/NMP-ES-024-201	A-5A	ISI	s	-	-	-	-	-
B12.50G4	1B21-F028B Body		GROUP 4 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B21-F028C Body	ISI/VT/NMP-ES-024-201	A-6A	ISI	s	-	-	-	-	-
B12.50G4	1B21-F028C Body		GROUP 4 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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B12.50G4	1B21-F028D Body		GROUP 4 VALVE BODIES	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B31-F023A Body	ISI/VT/NMP-ES-024-201	A-14	ISI	s	-	-	-	-	-
B12.50G5	1B31-F023A Body		GROUP 5 VALVE BODIES	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B31-F023B Body	ISI/VT/NMP-ES-024-201	A-15	ISI	s	-	-	-	-	-
B12.50G5	1B31-F023B Body		GROUP 5 VALVE BODIES	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B31-F031A Body	ISI/VT/NMP-ES-024-201	A-14B	ISI	s	-	-	-	-	-
B12.50G5	1B31-F031A Body		GROUP 5 VALVE BODIES	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1B31-F031B Body	ISI/VT/NMP-ES-024-201	A-15B	ISI	s	-	-	-	-	-
B12.50G5	1B31-F031B Body		GROUP 5 VALVE BODIES	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E11-F008 Body	ISI/VT/NMP-ES-024-201	A-23	ISI	s	-	-	-	-	-
B12.50G6	1E11-F008 Body		GROUP 6 VALVE BODIES	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E11-F009 Body	ISI/VT/NMP-ES-024-201	A-23	ISI	s	-	-	-	-	-
B12.50G6	1E11-F009 Body		GROUP 6 VALVE BODIES	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E11-F015A Body	ISI/VT/NMP-ES-024-201	A-21	ISI	s	-	-	-	-	-
B12.50G7	1E11-F015A Body		GROUP 7 VALVE BODIES	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E11-F015B Body	ISI/VT/NMP-ES-024-201	A-22	ISI	s	-	-	-	-	-
B12.50G7	1E11-F015B Body		GROUP 7 VALVE BODIES	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E11-F067 Body	ISI/VT/NMP-ES-024-201	A-23	ISI	s	-	-	-	-	-
B12.50G8	1E11-F067 Body		GROUP 8 VALVE BODIES	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-M-2	H1 1E11-F050A Body	ISI/VT/NMP-ES-024-201	A-21	ISI	s	-	-	-	-	-
B12.50G9	1E11-F050A Body		GROUP 9 VALVE BODIES	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
B-M-2	H1 1E11-F050B Body	ISI/VT/NMP-ES-024-201	A-22	ISI	s	-	-	-	-	-
B12.50G9	1E11-F050B Body		GROUP 9 VALVE BODIES	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
B-O	H1 1B11\RPV WELDS		A-34	ISI	-	-	-	-	-	-
B14.10	1B11\RPV WELDS		CRD HOUSING (Inaccessible)	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN

CLASS 2 COMPONENTS

SCOPE OF EXAMINATIONS

Per IWA-1400 of the Section XI Code, the Owner is responsible for determining the appropriated Code Class, for identifying the system boundaries for each class of component subject to examination, and for identifying the components exempt from examination. This requirement is met by the following:

Appropriate Code Class	The determination of Class 2 components is made by Design Modifications and designated on the ISI Boundary Diagrams. These Boundary Diagrams are controlled by Design Modifications.
System Boundaries	The system boundaries for Code Class 2 are designated on the ISI Boundary Diagrams.

EXAMINATION REQUIREMENTS

The examination requirements for the Class 2 components identified on the Boundary Diagrams are defined in IWC-2500 for each examination category. Categories are:

- Category C-A Pressure Retaining Welds in Pressure Vessels
- Category C-B Pressure Retaining Nozzle Welds in Vessels
- Category C-C Integral Attachments for Vessels, Piping, Pumps, and Valves
- Category C-F-2 Pressure Retaining Welds in Carbon or Low Alloy Steel Piping

The following Categories are not applicable to HNP.

- Category C-D Pressure Retaining Bolting Greater than 2" Diameter (NA to HNP)
- Category C-F-1 Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Steel Piping (NA to HNP)
- Category C-G Pressure Retaining Welds in Pumps and Valves (NA to HNP)

These examination requirements are not applicable to components exempt from examination per IWC-1220. Components exempt from examination are only subject to pressure testing requirements. (See the Exemptions Section below for more detail).

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

EXEMPTIONS

IWC-1220 defines the components that are exempt from the examination requirements of IWC-2500. Applicable Class 2 exemptions to be used during the 4th Interval are the same as those used during the 3rd Interval and include:

1. Size Exemption – All components less than or equal to 4” in diameter and their associated supports may be exempted from examination.
2. Pressure/Temperature Exemption - All components other than RHR, Emergency Core Cooling (ECC), and Containment Heat Removal (CHR) systems that operate at a pressure ≤ 275 psig and at a temperature $\leq 200^{\circ}\text{F}$ may be exempted from examination.
3. Open Ended Exemption - Components of any size beyond the last shutoff valve in open ended portions of systems that do not contain water during normal operation may be exempted.

The use of these three exemptions was evaluated and discussed below for application at HNP-1.

1. Size Exemption - For a BWR, the size exemption applies to all Class 2 components less than or equal to 4” in diameter.
2. Pressure/Temperature Exemption – This exemption applies only to Class 2 systems or portions of systems that do not have an RHR ECC, or CHR function. The RHR, ECC, and CHR function for HNP-1 is described below.
 - Residual Heat Removal (RHR) Function - Per Section 4.8.3 of the UFSAR, the objective of the RHR system is to restore and maintain the coolant inventory in the reactor vessel so that the core is adequately cooled after a loss-of-coolant accident (LOCA). The RHR system also provides containment cooling so that condensation of the steam resulting from the blowdown due to the design basis LOCA is ensured. Therefore, the pressure/temperature exemption is not applied to these portions of piping.
 - Emergency Core Cooling (ECC) Function - Per Section 6.1 of the UFSAR, four ECC subsystems protect the core against various sizes of hypothetical pipe breaks. Three subsystems inject emergency core cooling water into the reactor pressure vessel (RPV), and one subsystem depressurizes the RPV. The three injection subsystems are Class 2 high-pressure coolant injection (HPCI), Class 2 low-pressure coolant injection – LPCI mode of RHR, and Class 2 core spray (CS). The fourth ECCS subsystem is the Class 3 automatic depressurization system. Therefore, the pressure/temperature exemption is not applied to these portions of piping.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

- Containment Heat Removal (CHR) Function - Per Section 4.8.3 of the UFSAR, the RHR system also provides containment cooling so that condensation of the steam resulting from the blowdown due to the design basis LOCA is ensured. Therefore, the pressure/temperature exemption is not applied to these portions of piping.

3. Open Ended Exemption

The open ended exemption is applied to:

- 1E11-RHR piping from MOV 1E11-F027A through the Torus Spray Header.
- 1E11-RHR piping from MOV 1E11-F027B through the Torus Spray Header.
- 1E11-RHR piping from MOV 1E11-F021A through the Drywell Spray Header.
- 1E11-RHR piping from MOV 1E11-F021B through the Drywell Spray Header.

By system, the above exemptions were applied as follows:

1. **1C11 Control Rod Drive (CRD) System** (See Boundary Diagram HB-16064 and HB-16065) – The Class 2 portion of this system is less than 4” in diameter and exempt from examination, except for the 8” Scram Discharge Header. In the March 5, 1982 response to NUREG-0803, it was stated in part, “The headers are not exempted because of size, but are not presently included in Georgia Power’s ISI weld examination program because they are rarely pressurized during normal operation, and then only to a pressure far below design pressure”. This position has been continued through the 1st, 2nd and 3rd Intervals. However, these welds do receive augmented exams per the March 5, 1982 letter, thus the 8” scram discharge header receives the same examinations as required by Code. The only difference is that the exams are reported as augmented exams, not Code exams.
2. **1C41- Standby Liquid Control (SLC) System** (See Boundary Diagram HB-16061). All components are exempt from examination because all piping is 4” NPS and less in diameter.
3. **1C71 Reactor Protection System** (See Boundary Diagram HB-16568). All components are exempt from examination because all piping is 4” NPS and less in diameter.
4. **1E11 Residual Heat Removal (RHR) System** (See Boundary Diagrams HB-16329&30) –This system has ECC, CHR, and reactor residual heat removal functions; therefore, the pressure/temperature exemption cannot be applied. The exemptions applied to this piping are:
 - All components are exempt from examination on piping 4” NPS and less in diameter.
 - The open ended Spray Header piping downstream of E11-F027A&B and E11-F021A&B is exempt from examination.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

5. **1E21 Core Spray (CS) System** (See Boundary Diagrams HB-16328 and HB-16331). This system has ECC and CHR functions; therefore, the pressure/temperature exemption cannot be applied. There is not any open-ended piping; therefore, the only exemption is the 4" NPS and less size exemption.
6. **1E41 High Pressure Coolant Injection (HPCI) System** (See Boundary Diagrams HB-16332&33). This system has an ECC function; therefore, the pressure/temperature exemption cannot be applied. It is SNC's position that the steam exhaust lines contain water; therefore, the open-ended exemption cannot be applied. The only exemption applied is the 4" NPS and less size exemption.
7. **1E51 Reactor Core Isolation Cooling** (See Boundary Diagrams HB-16334&35). Per the boundary Diagrams, only the portion of RCIC associated with containment boundaries or that connects on to other Class 2 piping is classified as Class 2.

Per Section 4.7 of the UFSAR, the function of this system is to provide core cooling during reactor shutdown by pumping makeup water into the reactor pressure vessel (RPV) in case of a loss of flow from the main feed system and is activated in time to preclude conditions which lead to inadequate core cooling. This is not an RHR, ECC, or CHR function; therefore, all piping 4" and less in diameter is considered exempt from examination per IWC-1222(a) and all piping operating at a temperature equal to or less than 200⁰ F is considered exempt per IWC-1220(c). Non-exempt Class 2 RCIC piping is:

- The 6" portion of pump suction piping (9 welds) from the Torus connection out to valve 1E51-F031. This piping is potentially subject to temperatures greater than 200⁰F during accident conditions; therefore, the pressure and temperature exemption cannot be applied. Since the size exemption and open-ended exemption cannot be applied, these 8 welds (designated as 1E51-2RCIC-6-TS-2 through 9) are not exempt. *However, this is Class HLB, Schedule 40 piping which is less than 0.375" thick and not subject to examination, but is part of the total number of non-exempt welds.*
- The 10" steam exhaust line from the Torus connection to the Turbine Discharge. This piping (which includes welds 1E51-2RCIC-10-TD-23 thru 27 and weld 1E51-2RCIC-8-TD-1) is subject to temperatures greater than 200⁰F; therefore, the pressure and temperature exemption cannot be applied. The open-ended exemption was not used because while the welds in question may not be under water the environment on the pipe is water or vapor. Since the size exemption and open-ended exemption cannot be applied, these welds are not exempt. However, this is Class HBD, Schedule 40 piping which is 0.365" (10") and 0.322" (8") thick and not subject to examination, *but is part of the total number of non-exempt welds.*

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

For the above listed Class 2 piping, none is subject to examination (however, they are listed in the total C-F-2 weld count) due to the wall-thickness; however, the associated component supports and welded attachments are subject to examination.

The remainder of the RCIC piping is designated as Class S (see Class 2 augmented).

8. **1G41 Fuel Pool Cooling System** (See Boundary Diagram HB-16002). There are no Class 2 components in the 1G41 system. The Class 2 inter-tie to RHR is shown on RHR drawing HB-16329.
9. **1G51 Torus Drain** (See Boundary Diagram HB-16135) – This system provides no safety function except as containment function. However, since it is connected to the Torus it may see an elevated temperature during accident conditions. The open-ended exemption cannot be used since the piping contains water; therefore, only the size exemption may be used.
10. **1N11 Main System** (See Boundary Diagrams HB-11601 and HB-11602 and the Class 2 portions of the Nuclear Boiler System Boundary Diagrams HB-16062 and HB-16063). This system functions with the pressure above 275 psig and at a temperature greater than 200°F; therefore, the pressure/temperature exemption cannot be applied. The only exemption applied to this piping is the 4" NPS and less size exemption.
11. **1N37 Bypass Steam System** (See Boundary Diagram HB-11018). This system functions with the pressure above 275 psig and at a temperature greater than 200°F; therefore, the pressure/temperature exemption cannot be applied. The only exemption applied to this piping is the 4" NPS and less size exemption.
12. **1P41 Plant Service Water System (PSW)** (See Boundary Diagram HB-16011). Per Boundary Diagram HB-16011, the piping from the containment isolation valves, the piping through the penetration, and the piping inside containment are Class 2.. The function of this piping is to provide cooling water to the drywell fan coil units, which per Section 5.2.2.7 of the UFSAR performs no active safety-related function. This piping is classified as safety related only to support the containment isolation safety-related function. This is not an RHR, ECC, or CHR function; therefore, the size exemption and pressure/temperature exemption may be used where applicable. However, Page 10.7-7 of the FSAR while the equipment is not required for emergency conditions, the normal LOCA valve lineup has flow through this equipment. Therefore, as a conservatism, the pressure/temperature exemption will not strictly be used on the larger diameter piping in the drywell even though permissible). This piping is represented by Isometric Sketches B-101, B-102, B-103, B-104, B-105, and B-106. Inclusion of these lines will be considered to add 50 non-exempt welds (but thin-wall) to the C-F-2 scope that will add about 4 additional examinations to the scope of C-F-2. The remainder of piping and components in the drywell is exempt on size.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

13. **1P42 Reactor Building Closed Cooling Water (RBCCW) System** (See Boundary Diagram HB-16009). Per Boundary Diagram HB-16009, the piping from the containment isolation valves, the piping through the penetration, and the piping inside containment are designated as Class 2 because of the containment function. This piping provides cooling water to the reactor recirculation pump motor bearings. Per Section 10.5.3 of the UFSAR, operation of the RBCCW system is not vital to safe shutdown of the plant under normal or accident conditions, and failure of any component of this system will not cause a significant release of radioactivity. This is not an RHR, ECC, or CHR function; therefore, the size exemption and pressure/temperature exemption may be used where applicable. Since the piping experiences low pressure and low temperature, both the size exemption and the pressure/temperature exemption may be applied. Therefore, all Class 2 RBCCW components are exempt from examination.
14. **1T48 Containment Purge and Inerting** (See Boundary Diagram HB-16000 and HB-16024). Per Boundary Diagram HB-16000 and HB-16024, the piping from the containment penetration to the second containment isolation valve is designated as Class 2 because of the containment function. The balance of the piping is not within the ISI scope. However, since heat may be removed from the containment by this system, it was considered as having a CHR function and the pressure and temperature exemption was not used. Much of this piping could be exempted using the open-ended exemption and should be evaluated.
15. **1T48 Drywell to Torus Differential Pressure System** – (See Boundary Diagram HB-16153). (Note: The piping shown on HB-16153 is the same piping shown on HB-16024. See the P&ID for the actual configuration). This system connects to existing 1T48 containment penetration piping shown on HB-16024 or HB-16153 downstream of the second containment isolation valve which is outside the scope of ISI.
16. **Containment Isolation Piping.** This piping is designated as Class 2 only because it penetrates containment and may have both the 4" exemption and the pressure/temperature (PT) exemption applied. The applicable containment penetrations, their function, the Boundary Diagram, and the size are listed below:

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN

CLASS 2 COMPONENTS

Containment Isolation Piping				
Penetration	Description	Drawing	Dia	Evaluation
X-18	Radwaste	HB-16176	3"	Exempt-Size
X-19	Radwaste	HB-16176	3"	Exempt-Size
X-21	Service Air	HB-16013	2"	Exempt-Size
X-22	Drywell Pneumatic	HB-16299	2"	Exempt-Size
X-27A	Fission Prod. Mon	HB-16173	1"	Exempt-Size
X-27C,D	Reactor Protection	HB-16330	1"	Exempt-Size
X-27E	Purge & Inerting	HB-16024	1"	Exempt-Size
X-27F	Drywell Pneumatic	HB-16299	2"	Exempt-Size
X-28	Recirc Sample	HB-16066	¾"	Exempt-Size
X-28F	H ₂ O ₂ Sample	HB-16276	1"	Exempt-Size
X-31D	H ₂ O ₂ Sample	HB-16276	1"	Exempt-Size
X-31F	Pump Seal Purge	HB-16066	¾"	Exempt-Size
X-33D	Fission Prod. Mon	HB-16173	1"	Exempt-Size
X-34E	H ₂ O ₂ Sample	HB-16276	1"	Exempt-Size
X-45C,D	Drywell Pressure	HB-16329	1"	Exempt-Size
X-35A-D	TIP Drive	HB-16561	≤4"	Exempt-Size
X-35E	TIP N ₂ Purge	HB-16561	1"	Exempt-Size
X-40C-F	Drywell Pneumatic	HB-16286	1"	Exempt-Size
X-45E	Purge & Inerting	HB-16024	1"	Exempt-Size
X-45F	ILRT	HB-16060	1"	Exempt-Size
X-46	Dem. Water	HB-16015	4"	Exempt-Size
X-59A	Pump Seal Purge	HB-16066	¾"	Exempt-Size
X-206A,B,C,D	Purge & Inerting	HB-16024	1"	Exempt-Size
X-209A,B,C,D	Purge & Inerting	HB-16024	1"	Exempt-Size
X-216A,B,C,D	Purge & Inerting	HB-16024	1"	Exempt-Size
X-217	H ₂ O ₂ Sample	HB-16276	1"	Exempt-Size
X-223A(A-F)	Vacuum Breakers	HB-16024	1"	Exempt-Size
X-223B(A-F)	Vacuum Breakers	HB-16024		Exempt-Size

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

DEVIATIONS TO CLASS 2 ISI CODE REQUIREMENTS

IWC-2500 provides the examination requirements for Class 2 components. These Code requirements may be deviated from by:

- The use of NRC approved alternatives to Code requirements per 10 CFR 50.55a(a)(3).
- The use of NRC approved Relief Requests per 10 CFR 50.55a(g)(6) when an examination requirement by the Code is determined to be impractical.
- The use of Code Cases approved for use by the NRC through publication in Regulatory Guide 1.147.

Significant deviations from IWC-2500 Code requirements at HNP-1 are:

(Note: See Volume 1 for listing of Relief Requests, Alternatives, and NRC Safety Evaluations).

Code Case N-663

Code Case N- 663 provides that "... in lieu of the surface examination requirements for piping welds of Examination Category C-F-1 and C-F-2 ,surface examinations may be limited to areas identified by the Owner as susceptible to outside surface attack." The susceptibility criteria are listed in Table 1 of Code Case N- 663 for two types of degradation mechanisms. No Class 2 welds have been identified as being susceptible to outside surface attack. The basis is discussed below:

External (O. D.) Chloride Stress Corrosion Cracking of Austenitic Stainless Steel

NA - There is not any Austenitic Stainless Steel in Class 2 piping.

Other Outside Surface Initiated Mechanisms

Per Code Case N-663, items that are susceptible to an outside attack should be identified by a plant-specific service history review. This review should include plant-specific processes and programs that minimize chlorides and other contaminants.

For carbon steel piping, chlorides are not a issue. During 30 years of Inservice Inspection of Class 2 components, outside attack of Class 2 components has not been identified.

Plant-specific processes and programs that minimize chlorides and other contaminants are:

- The SNC Chemical Product Control Program provides procedure guidance for control of contaminants from chemical products to be used on site. Reference Hatch procedure 60 AC HPX-008-0, E. I. Hatch Chemical Control.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Category C-A Pressure Retaining Welds in Pressure Vessels

1st Interval

Not Evaluated

2nd Interval

The examinations are shown in Table 2-1 for information purposes only.

3rd Interval

There are two Class 2 vessels at Hatch – the RHR Heat Exchangers. Per Table IWC-2500-1, Category C-A of the 1989 Code only the number of welds on one of the two heat exchangers need to be volumetrically examined (three total). (Alternately the number of welds on one heat exchanger may be distributed over two heat exchangers). Welds to be volumetrically examined on the one heat exchanger include:

- Two circumferential shell welds at a structural discontinuity (Item C1.10).
- One head-to-shell weld (Item C1.20).
- Tubesheet-to-shell welds (Item C1.30). Not applicable to Hatch because the tubesheet is flanged in.

The HNP-1 Category C-A examinations are shown below:

CATEGORY C-A PRESSURE VESSEL WELDS									
Item No.	Component	ISI Fig	I2/P1	I2/P2	I2/P3	I3/P1	I3/P2	I3/P3	Comments
C1.20	1E11\2HX-A-1 Shell Head To Upper Shell Ring	B-1		1991			2002		Limited coverage due to brackets. See RR-5.
C1.10	1E11\2HX-A-2 Upper Shell Ring To Lower Shell Ring	B-1							
C1.10	1E11\2HX-A-3 Lower Shell Ring To Flange	B-1							
C1.20	1E11\2HX-B-1 Shell Head To Upper Shell Ring	B-1							
C1.10	1E11\2HX-B-2 Upper Shell Ring To Lower Shell Ring	B-1	1988			1999			
C1.10	1E11\2HX-B-3 Lower Shell Ring To Flange	B-1			1993			2006	

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

4th Interval

Examinations performed during the 3rd Interval will be repeated during the 4th Interval.

The HNP-1 Category C-A examinations are shown below:

CATEGORY C-A PRESSURE VESSEL WELDS									
Item No.	Component	ISI Fig	I3/P1	I3/P2	I3/P3	I4/P1	I4/P2	I4/P3	Comments
C1.20	1E11\2HX-A-1 Shell Head To Upper Shell Ring	B-1		2002			1R25		Limited coverage due to brackets.
C1.10	1E11\2HX-A-2 Upper Shell Ring To Lower Shell Ring	B-1							
C1.10	1E11\2HX-A-3 Lower Shell Ring To Flange	B-1							
C1.20	1E11\2HX-B-1 Shell Head To Upper Shell Ring	B-1							
C1.10	1E11\2HX-B-2 Upper Shell Ring To Lower Shell Ring	B-1	1999			1R23			
C1.10	1E11\2HX-B-3 Lower Shell Ring To Flange	B-1			2006			1R27	

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Category C-B Nozzle Examinations in Class 2 Pressure Vessels

1st Interval

Not Evaluated

2nd Interval

The “A” inlet nozzle weld and the “B” Outlet nozzle weld were examined as shown in Table 2-2. An inlet nozzle inner radius examination was not performed because of an SNC interpretation that the configuration had a rounded corner instead of an actual inner radius configuration. The examinations are shown in Table 2-2 for information purposes only.

3rd Interval

There are two Class 2 vessels at Hatch – the RHR Heat Exchangers. Each RHR heat exchanger has one inlet and one outlet nozzle on each heat exchanger. The nozzles do not have reinforcement plates. For nozzles without reinforcement plates Table IWC-2500-1, Category C-B of the 1989 Code requires that only the nozzles on one of the two heat exchangers be examined. (Alternately the number of nozzles on one heat exchanger may be distributed over two heat exchangers). The nozzles initially selected for examination shall be re-examined over the life of the heat exchangers. Because of the pattern established in the 2nd Interval the “A” outlet nozzle and the “B” inlet nozzle will be examined. Examinations include surface and volumetric examinations of the two nozzle-to-shell welds and a volumetric examination of the inner radius volume on the two nozzles.

As discussed above in the 2nd Interval write-up, an interpretation was made that there was a rounded corner instead of an inner radius configuration. However, a review of drawings in manual S-25700 indicates that the configuration is similar to that shown in examination Figure IWC-2500-4(b) in the 1989 Code. While not exactly the same configuration, the Code figures are representative figures and it was not the intent of the Section XI Code to have an “exact” match of every configuration in the nuclear industry. While there is some debate as to the accuracy of the design drawing as compared to the actual configuration and there is additional debate regarding the ability to perform meaningful examinations, a somewhat more conservative approach will be used for the 3rd Interval. The examinations will be attempted and if a meaningful examination cannot be performed, relief will be requested. However, as shown in Table 2-2, the 3rd Interval examinations will be performed significantly more than 10-years after the previous examinations. This situation is evaluated below.

The previous determination that there was not an inner radius (therefore no examinations were required) is considered a less conservative application of engineering judgment, than presently being used. However, when the 3rd Interval examinations are completed during 1R22, if there is no cracking, the structural integrity of the nozzle inner radii will

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

be verified for both the 2nd and 3rd Intervals. Therefore, there will not be a technical or safety issue. The basis for this determination is that if they are not cracked during 1R22, then they were not cracked during the 2nd Interval. Licensing will determine if this situation is reportable. Examinations are shown below:

CATEGORY C-B PRESSURE VESSEL NOZZLE EXAMINATIONS									
Item Number	Component	ISI Figure Number	I2/P1	I2/P2	I2/P3	I3/P1	I3/P2	I3/P3	Comments
C2.21	1E11\2HX-A-I Inlet Nozzle	B-1A	1988			1999			
C2.22	1E11\2HX-A-I-IRS Inlet Nozzle Inner Radius	B-1A					2000 (Surface Exam)	1R22	
C2.21	1E11\2HX-A-O Outlet Nozzle	B-1A							
C2.22	1E11\2HX-A-O-IRS Outlet Nozzle Inner Radius	B-1B							
C2.21	1E11\2HX-B-I Inlet Nozzle	B-1B							
C2.22	1E11\2HX-B-I-IRS Inlet Nozzle Inner Radius	B-1B							
C2.21	1E11\2HX-B-O Outlet Nozzle	B-1B		1991			2002		
C2.22	1E11\2HX-B-O-IRS Outlet Nozzle Inner Radius	B-1B						1R22	
Number of 3 rd Interval Examinations and Cumulative Percentage						1 (25%)	2 (50%)	4 (100%)	

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

4th Interval

The HNP-1 Category C-B examinations are shown below:

CATEGORY C-B PRESSURE VESSEL NOZZLE EXAMINATIONS									
Item Number	Component	ISI Figure Number	I3/P1	I3/P2	I3/P3	I4/P1	I4/P2	I4/P3	Comments
C2.21	1E11\2HX-A-I Inlet Nozzle	B-1A	1999			1R23			
C2.22	1E11\2HX-A-I-IRS Inlet Nozzle Inner Radius	B-1A			1R22			1R27	
C2.21	1E11\2HX-A-O Outlet Nozzle	B-1A							
C2.22	1E11\2HX-A-O-IRS Outlet Nozzle Inner Radius	B-1B							
C2.21	1E11\2HX-B-I Inlet Nozzle	B-1B							
C2.22	1E11\2HX-B-I-IRS Inlet Nozzle Inner Radius	B-1B							
C2.21	1E11\2HX-B-O Outlet Nozzle	B-1B		2002			1R25		
C2.22	1E11\2HX-B-O-IRS Outlet Nozzle Inner Radius	B-1B			1R22			1R27	
Number of 4th Interval Examinations and Cumulative Percentage						1 (25%)	2 (50%)	4 (100%)	

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Category C-C Integral Attachments for Class 2 Vessels, Piping, Pumps, and Valves

1st and 2nd Interval

Not evaluated.

3rd Interval

Table IWC-2500-1, Category C-C of the 1989 Code defines the examination requirements for Class 2 integrally welded attachments. In lieu of these requirements, HNP examines Class 2 welded attachments per the requirements of Code Case N-509, which was originally adopted for use at HNP through relief request RR-4. Relief Request RR-4 was superseded via the endorsement of Code Case N-509 in Revision 12 to Regulatory Guide 1.147. Revision 13 subsequently annulled the Code Case; however, it may be used until the end of the 3rd interval. Revision 12 had a condition for use, in that, at least 10% of each Item No. was required to be examined (for those items not already requiring 100%). Each Class 2 Code Case N-509 Item is discussed below.

Code Case N-509, Item C3.10 – Pressure Vessels – As shown in the following table, the only Class 2 pressure vessels are the two RHR Heat Exchangers. With multiple vessels, Code Case N-509 allows the examination of one of the welded attachment on one of the vessels. 1E11\2HX-A-USC-4 was examined in the 2nd Period (1R20).

CATEGORY C-C, ITEM C3.10 PRESSURE VESSEL WELDED ATTACHMENTS					
Component	ISI Figure	I3/P1	I3/P2	I3/P3	Comments
1E11\2HX-A-LSC-1	B-1				
1E11\2HX-A-USC-1	B-1				
1E11\2HX-A-USC-2	B-1				
1E11\2HX-A-USC-3	B-1				
1E11\2HX-A-USC-4	B-1		1R20		One welded attachment on one vessel required to be examined per Code Case N-509
1E11\2HX-B-LSC-1	B-1				
1E11\2HX-B-USC-1	B-1				
1E11\2HX-B-USC-2	B-1				
1E11\2HX-B-USC-3	B-1				
1E11\2HX-B-USC-4	B-1				

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Code Case N-509, Item C3.30 (Pumps) and C3.40 (Valves)

None Identified

Code Case N-509, Item C3.20 – Piping - Per the NRC condition of use in Revision 12 of Reg. Guide 1.147, 10% of the piping attachments must be examined.

There are 214 sets of non-exempt welded attachments in the Class 2 scope, as shown in Schedule Works. For the purpose of this discussion, a set is a group of welded attachments associated with a specific location. For instance, a hanger clamp may have four welded lugs but it is considered one set. When a set of welded attachments is selected for examination all of the welded attachments in that set should be examined.

A minimum of 22 sets of welded attachments is required. Seven sets of welded attachments (32%) were examined during the 1st Period, 11 sets during the 2nd Period (cumulative percentage of 79%), and 6 sets during the 3rd Period (Cumulative percentage of 100%). Note that the 2nd Period is slightly in excess of the Code requirement of 75%. This was a result of the movement of augmented supports originally included in this scope that were moved. There is no effect on the quality of examinations.

Note:

A review of the Indication Notification Forms for the 3rd Interval did not identify any cases requiring additional examinations of piping welded attachments (e.g., scope expansion or re-examination). Therefore, all examinations are for Code credit.

Examinations were performed as shown in the attached Hatch Unit No. 1 Code Compliance Scheduling Summary – 3rd Interval for Item C3.20.

Additionally, examination of an integrally welded attachment is required if the associated component support member has deformation identified during operation, refueling, maintenance, examination, inservice inspection, or testing. An example of component support deformation is broken parts, bent parts, or pulled out parts.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

4th Interval

Table IWC-2500-1, Category C-C of the 2001 Edition of ASME Section XI through the 2003 Addenda defines the examination requirements for Class 2 integrally welded attachments. These requirements mirror those in Code Case N-509 used during the 3rd Interval.

Item C3.10 – Pressure Vessels – As shown in the following table, the only Class 2 pressure vessels are the two RHR Heat Exchangers. With multiple vessels, the Code allows the examination of one of the welded attachment on one of the vessels. 1E11\2HX-A-USC-4 was examined in the 2nd Period (1R20) of the 3rd Interval and will be re-examined during the 2nd Period of the 4th Interval..

CATEGORY C-C, ITEM C3.10 PRESSURE VESSEL WELDED ATTACHMENTS					
Component	ISI Figure	I3/P1	I3/P2	I3/P3	Comments
1E11\2HX-A-LSC-1	B-1				
1E11\2HX-A-USC-1	B-1				
1E11\2HX-A-USC-2	B-1				
1E11\2HX-A-USC-3	B-1				
1E11\2HX-A-USC-4	B-1		1R26		One welded attachment on one vessel required to be examined.
1E11\2HX-B-LSC-1	B-1				
1E11\2HX-B-USC-1	B-1				
1E11\2HX-B-USC-2	B-1				
1E11\2HX-B-USC-3	B-1				
1E11\2HX-B-USC-4	B-1				

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Item C3.30 (Pumps) and C3.40 (Valves)

None Identified

Item C3.20 – Piping - There are 214 sets of non-exempt welded attachments in the Class 2 scope, as shown in Schedule Works. For the purpose of this discussion, a set is a group of welded attachments associated with a specific location. For instance, a hanger clamp may have four welded lugs but it is considered one set. When a set of welded attachments is selected for examination all of the welded attachments in that set should be examined.

A minimum of 22 sets of welded attachments is required. Seven sets of welded attachments (32%) will be examined during the 1st Period, 8 sets during the 2nd Period (cumulative percentage of 68%), and 7 sets during the 3rd Period (Cumulative percentage of 100%).

Additionally, examination of an integrally welded attachment is required if the associated component support member has deformation identified during operation, refueling, maintenance, examination, inservice inspection, or testing. An example of component support deformation is broken parts, bent parts, or pulled out parts.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Category C-F-1 Pressure Retaining Welds in Austenitic Stainless Steel

None Identified

Category C-F-2 Pressure Retaining Welds in Carbon or Low Alloy Steel

1st, 2nd, and 3rd Intervals - Not Evaluated

4th Interval

Table IWC-2500-1, Category C-F-2 of the 2001 Edition of Section Xi with Addenda through 2003 defines the examination requirements for these piping welds.

1. The Code requires that welds selected for examination shall include 7.5% , but not less than 28 circumferential welds not exempted by IWC-1220. Long-seam welds are not required for examination by the Code.
2. The Code indicates in Table IWC-2500-1, Category C-F-2, Footnote 2 that some welds that are not exempted by IWC-1220 are not required to be examined, because they are less than 3/8" (0.375") thick, but they are required to be included in the total weld count to which the 7.5% sample will be applied. Per the Code Compliance Scheduling Summary for C-F-2 welds there are 1103 welds in the population, requiring 82 examinations. Additionally, there are 50+ non-exempt Class 2 Plant Service Water welds in containment that are less than 3/8" thick. Even though these welds are not required to be examined they will count in the total welds by which the 7.5% number is calculated. About 4 extra welds would require to be examined. Using ScheduleWorks, there will be roundup which will more than account for 4 welds, so they will be ignored. For Category C-F-2, not all of the roundup will be used because the welds were broken out by system in order to facilitate the implementation of the below listed proration requirements. Allowing all of the roundup would necessitate an excess number of examinations. Additionally, there is not a Code requirement to meet the 7.5% percentage requirements for each Code Item, but only for the total category C-F-2 welds. Therefore as long as a minimum of the 82 exams plus the 4 additional exams (total of 86 welds) are performed per Code Case N-598, using the below listed proration requirements the Code requirements will be met. (Note: 89 welds were selected.)
3. Table IWC-2500-1, Category C-F-2, Footnote 2 of the Code requires that the exams be distributed (prorated) among Class 2 systems, to the degree practicable using the following criteria:
 - the number of non-exempt welds in each system as compared to the total number of non-exempt welds.
 - the number of non-exempt welds in for each line size (e.g., 10", 12" and 16") to the degree practicable.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

RHR - RHR has a total of 563 C-F-2 welds versus a total of 1107 total welds; therefore about 44 of the 87 welds need to be selected in RHR (more may be selected if desired). These 44 welds are prorated through the line sizes as follows.

RHR	Line Size	Number of Welds $\geq$ 0.375"	Prorated Number of Welds To Be Examined	Comments
1E11	6"	13 (3%)	3	
	8"	0	0	
	14"	12 (3%)	1	
	16"	131 (28%)	12	
	20"	170 (36%)	15	
	24"	145 (31%)	13	
		471	44	

CS - CS has a total of 159 C-F-2 welds versus a total of 1107 welds; therefore about 12 of the 87 welds need to be selected in CS (more may be selected if desired). These 12 welds are prorated through the line sizes as follows.

CS	Line Size	Number of Welds $\geq$ 0.375"	Prorated Number of Welds To Be Examined	Comments
	10"	6 (5%)	0	Less than 1 weld required. None selected
	12"	75 (57%)	7	
	14"	8 (6%)	1	
	16"	42 (32%)	4	
		131	12	

HPCI - HPCI has a total of 149 C-F-2 welds versus a total of 1107 welds; therefore about 12 of the 87 welds need to be selected in HPCI (more may be selected if desired). These 12 welds are prorated through the line sizes as follows.

HPCI	Line Size	Number of Welds $\geq$ 0.375"	Prorated Number of Welds To Be Examined	Comments
	10"	44 (32%)	3	
	12"	2 (1%)	0	Less than 1 weld required. None selected
	14"	41 (30%)	3	
	16"	24 (18%)	2	
	18"	7 (5%)	1	
	20"	15 (11%)	2	
	24"	3 (2%)	1	
		136	12	

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

RCIC - RCIC has a total of 14 C-F-2 welds versus a total of 1107 welds; therefore about 1 of the 87 welds could be selected in RCIC. None were selected because all welds were less than 0.375" thick.

RCIC	Line Size	Number of Welds $\geq$ 0.375"	Prorated Number of Welds To Be Examined	Comments
	10"	0	0	
	6"	0	0	
	8"	0	0	

Torus Drainage (TDP) - TDP has a total of 10 C-F-2 welds versus a total of 1107 welds; therefore one or less of the 87 welds need to be selected in TDP. None were selected.

TDP	Line Size	Number of Welds $\geq$ 0.375"	Prorated Number of Welds To Be Examined	Comments
	8"	10 (100%)	0	
		10	0	

Main Steam (N11) - MS has a total of 91 C-F-2 welds versus a total of 1107 welds; therefore about 7 of the 87 welds need to be selected in MS (more may be selected if desired). These 7 welds are prorated through the line sizes as follows.

MS	Line Size	Number of Welds $\geq$ 0.375"	Prorated Number of Welds To Be Examined	Comments
	6"	6 (7%)	1	
	10"	4 (4%)	0	
	14"	6 (7%)	1	
	24"	75 (82%)	5	
		91	7	

Auxiliary Steam (N37) – This system has a total of 52 C-F-2 welds versus a total of 1107 welds; therefore about 4 of the 87 welds need to be selected (more may be selected if desired). These 4 welds are prorated through the line sizes as follows.

Aux Steam	Line Size	Number of Welds $\geq$ 0.375"	Prorated Number of Welds To Be Examined	Comments
	16"	52 (100%)	4	
		52	4	

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Torus Purge and Inerting (T48) – This system has a total of 65 C-F-2 welds versus a total of 1107 welds; therefore about 5 of the 87 welds need to be selected in T48 (more may be selected if desired). These 5 welds are prorated through the line sizes as follows.

MS	Line Size	Number of Welds $\geq$ 0.375"	Prorated Number of Welds To Be Examined	Comments
	6"	1 (< 1%)	0	
	18"	28 (60%)	3	
	20"	18 (38%)	2	
		47	5	

4. Footnote 2 indicates that this prorated number of weld examinations determined for each system as shown in the above table should then be distributed among terminal ends and structural discontinuities prorated, to the degree practicable, on the number of non-exempt terminal ends and structural discontinuities within a system. Structural discontinuities include pipe weld joints to vessel nozzles, valve bodies, pump casings, pipe fittings (such as elbows, tees, reducers, flanges, etc.), and pipe branch connections and fittings. Terminal ends would be those structural discontinuities where a piping connects to structures, components, or pipe anchors

An evaluation of the Footnote 2 requirements is performed below for each system.

1E11 – RHR: Per Schedule Works there are 422 non-exempt welds with a wall thickness of 0.375" or thicker, and are not pipe-to-pipe welds. Of these 422 welds, the following 18 welds (4.3% of the 422 welds) are considered terminal end welds (and the remainder are structural discontinuities):

Piping Welds Connecting to the Torus

1E11-2RHR-24A-TS-A-1
1E11-2RHR-24A-TS-C-1
1E11-2RHR-24B-TS-B-1
1E11-2RHR-24B-TS-D-1
1E11-2RHR-16A-TL-2
1E11-2RHR-16B-TL-2

Piping Welds Connecting to Pump Nozzles

1E11-2RHR-16A-PD-A-1
1E11-2RHR-16A-PD-C-1
1E11-2RHR-16B-PD-B-1
1E11-2RHR-16B-PD-D-1
1E11-2RHR-24A-TS-A-17
1E11-2RHR-24A-TS-C-18

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

1E11-2RHR-24B-TS-B-16
1E11-2RHR-24B-TS-D-17

Piping Welds Connecting to RHR Heat Exchanger Nozzles

1E11-2RHR-20A-HXI-3
1E11-2RHR-20A-HXO-1
1E11-2RHR-20B-HXI-3
2E11-2RHR-20B-HXO-1

Selecting approximately 4.3% of the 44 welds selected for examination as a terminal weld population yields a population of 1 to 2 terminal end welds to be examined. Terminal End 1E11-2RHR-16A-TL-2 was scheduled for examination. The remaining welds were all structural discontinuities.

1E21 – Core Spray - Per Schedule Works there are 121 non-exempt welds with a wall thickness of 0.375" or thicker, and are not pipe-to-pipe welds. Of these 121 welds, the following 4 welds (3.3% of the 121 welds) are considered terminal end welds (and the remainder are structural discontinuities):

Piping Welds Connecting to the Torus

1E21-2CS-16A-TS-2 (Note: weld TS-1 is in the IWE scope)
1E21-2CS-16B-TS-2 (Note: weld TS-1 is in the IWE scope)

Piping Welds Connecting to Pump Nozzles

1E21-2CS-12A-1 1E21-2CS-16A-TS-23
1E21-2CS-12B-1 1E21-2CS-16B-TS-22

Selecting approximately 3.3% of the 12 required welds as a terminal weld population yields 0 to 1 welds to be examined. Terminal End 1E21-2CS-16A-TS-2 was scheduled for examination.

1E41 – HPCI: Per Schedule Works there are 135 non-exempt welds with a wall thickness of 0.375" or thicker, and are not pipe-to-pipe welds. Of these 135 welds, the following 8 welds (5.9% of the 135 welds) are considered terminal end welds (and the remainder are structural discontinuities):

Piping Welds Connecting to the Torus

1E41-2HPCI-16-TS-2 (Note: weld TS-1 is in the IWE scope)
1E41-2HPCI-24-TD-3 (Note: weld TD-4 is in the IWE scope)

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Piping Welds Connecting to Pump Nozzles

1E41-2HPCI-10-R-1 (discharge)
1E41-2HPCI-14-PS-4 (suction)
1E41-2HPCI-12-PC-1 (booster pump connection)
1E41-2HPCI-12-PC-5 (booster pump connection)

Piping Welds Connecting to Turbine

1E41-2HPCI-18-TD-1
1E41-2HPCI-10-SS-37

Selecting approximately 5.9% of the 13 welds as a terminal weld population yields 0 to 1 welds to be examined. Terminal End 1E41-2HPCI-10-SS-37 was scheduled for examination.

1E51 – RCIC. There are no welds selected for examination.

1G51 – Torus Cleanup. There are no welds selected for examination.

1N11 – Main Steam Auxiliary. Per Schedule Works there are 78 non-exempt welds with a wall thickness of 0.375” or thicker, and are not pipe-to-pipe welds. Of these 78 welds, the following 4 welds (5.1% of the 78 welds) are considered terminal end welds (and the remainder are structural discontinuities):

1N11-2MSA-24A-1 and 17
1N11-2MSA-24B-1 and 18
1N11-2MSA-24C-1 and 19
1N11-2MSA-24D-1 and 16

Selecting approximately 5% of the 4 welds as a terminal weld population yields 0 to 1 weld to be examined. Terminal End 1N11-2MSA-24C-19 was scheduled for examination.

1N37 – Turbine Steam Bypass. Per Schedule Works there are 48 non-exempt welds with a wall thickness of 0.375” or thicker, and are not pipe-to-pipe welds. Of these 48 welds, the following 2 welds (4.1% of the 48 welds) are considered terminal end welds (and the remainder are structural discontinuities):

1N37-2TSB-16A-14
1N37-2TSB-16B-13

Selecting approximately 4% of the 4 welds as a terminal weld population yields 0 to 1 welds to be examined. No welds were scheduled for examination.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

1T48 – Purge and Inerting. Per Schedule Works there are 46 non-exempt welds with a wall thickness of 0.375” or thicker, and are not pipe-to-pipe welds. Of these 46 welds, the following 4 welds (8.7% of the 48 welds) are considered terminal end welds (and the remainder are structural discontinuities):

Piping Welds Connecting to the Torus

2T48-2CPI-20-PIT-8A (Note: weld PIT-9 is in the IWE scope)
2T48-2CPI -18-P0T-1

Piping Welds Dead-ending at the Vacuum Breakers

2T48-2CPI-20A-VB-1
2T48-2CPI-20B-VB-1

Selecting approximately 8.7% of the 5 welds as a terminal weld population yields 0 to 1 welds to be examined. Terminal End 2T48-2CPI-20A-VB-1 was scheduled for examination.

4th Interval

There are no substantial changes between the 1989 Code and the 2001 Edition with Addenda through 2003. Therefore, the weld selection is the same.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Category C-G Pressure Retaining Welds in Pumps and Valves

Hatch 1 RHR Pump casings (1E11-C002A(B)(C)(D)) are cast steel (ASTM A-216 GR. WCB), and do not contain welds, reference vendor manual S17351.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

AUGMENTED EXAMINATIONS

The NRC's safety evaluation dated 6/16/97 of the 3rd Interval Program listed several augmented programs that will be maintained during the 4th Interval.

The NRC's safety evaluation dated 6/16/97 of the 3rd Interval Program stated that in addition to the 1989 Code required examinations, the examination of the Scram Discharge Volume (SDV) piping in accordance with NUREG-0803 would be performed. NUREG-0803 contends that since the SDV was designed and fabricated in accordance with Class 2 piping that it should be subjected to the ISI requirements for Class 2 piping. By letter dated March 5, 1982 GPC committed to the following, "We will include weld examination of the SD (scram discharge) headers in the ISI program"

The 2nd Interval update was performed effective 12/31/85 and these welds were included as required. As permitted in 10CFR50.55a, examination locations were selected by the 1974 Code with addenda through Summer 1975 and the examinations were performed per the 1980 Edition of Section XI through Winter 1981. As shown on ISI Figures B-84 and B-85 there are thirty-one (EBB, 0.5" thick, schedule 80 carbon steel), welds.

The 1974 Code required examination of 100% of welds that circulate reactor coolant to be examined over the 40-year life. For those systems not circulating reactor coolant the examinations could be reduced to 50% of the welds. These welds are outside the Reactor Coolant Pressure Boundary and per NEDO-24342, "GE Evaluation in Response to NRC Request Regarding BWR Scram System Pipe Breaks" they are pressurized less than 1% of the time. Therefore, these welds were designated as not circulating Reactor Coolant. Additionally, because there are two similar CRD headers only the equivalent of 50% of one the headers needed to be examined during the 40-years. Since the largest header has 18 welds, 50% or nine welds have to be examined during the 40-year life or three welds per 10-year interval. The 1980 Code required a surface examination technique for 0.5" thick piping.

For the 3rd and 4th Interval, a 7.5% sample (volumetric) is required. Welds and examinations are shown in the following table. This piping is designated as "Class 2S" in Schedule Works.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

AUGMENTED CRD EXAMINATIONS							
Component	I3/P1	I3/P2	I3/P3		I4/P1	I4/P2	I4/P3
1. 1C11-2CRD-8N-SDV-1							
2. 1C11-2CRD-8N-SDV-2							
3. 1C11-2CRD-8N-SDV-2A							
4. 1C11-2CRD-8N-SDV-2B							
5. 1C11-2CRD-8N-SDV-2C							
6. 1C11-2CRD-8N-SDV-3							
7. 1C11-2CRD-8N-SDV-4		1R19-				1R24	
8. 1C11-2CRD-8N-SDV-6							
9. 1C11-2CRD-8N-SDV-7							
10. 1C11-2CRD-8N-SDV-8							
11. 1C11-2CRD-8N-SDV-9							
12. 1C11-2CRD-8N-SDV-10							
13. 1C11-2CRD-8N-SDV-11	-1R17-				1R23		
14. 1C11-2CRD-8N-SDV-12			1R21-				1R26
15. 1C11-2CRD-8N-SDV-13							
16. 1C11-2CRD-8S-SDV-1							
17. 1C11-2CRD-8S-SDV-2							
18. 1C11-2CRD-8S-SDV-2A							
19. 1C11-2CRD-8S-SDV-3							
20. 1C11-2CRD-8S-SDV-4							
21. 1C11-2CRD-8S-SDV-5							
22. 1C11-2CRD-8S-SDV-6							
23. 1C11-2CRD-8S-SDV-7							
24. 1C11-2CRD-8S-SDV-8							
25. 1C11-2CRD-8S-SDV-9							
26. 1C11-2CRD-8S-SDV-10							
27. 1C11-2CRD-8S-SDV-11							
28. 1C11-2CRD-8S-SDV-12							
29. 1C11-2CRD-8S-SDV-13							

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

The NRC's safety evaluation dated 6/16/97 of the 3rd Interval Program also indicated, that in addition to the 1989 Code required examinations, volumetric examination of a 7.5% sample of a portion of thin-wall, non-exempt piping within the RHR, CS, and HPCI systems would be performed. Per Table IWC-2500-1, Category C-F-2 only carbon steel welds $\geq 3/8''$ (0.375'') thick require examination; however, SNC agreed to volumetrically examine a 7.5% sample of the welds in this thin wall piping. The Class 2 augmented section of the ISI Program indicates that the portion of thin-wall, non exempt piping subject to examination is:

- a. The thin-wall piping on the downstream side of pumps whose integrity is needed to maintain the pressure boundary for the system to perform its intended RHR, ECC, or CHR safety function.
- b. The Branch connection piping out to the first normally closed valve, or to the first valve capable of automatic closure, or to a flange when the piping downstream of the valve or flange has a non-ECCS, non-RHR, or non-CHR function.

Per pipe schedule tables, this thin wall piping is limited to Schedule 40 (or thinner) piping 6'', 8'', or 10'' in diameter discharge piping in RHR and CS. The following table shows the Class 2 welds in the thin wall scope and defines the welds that do not meet criteria (a) or criteria (b).

There are approximately 62 welds that meet criteria (a) or criteria (b); therefore, at least five welds are required to be examined to meet the 7.5% requirement. Within the required scope, five were examined and the requirements were met.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

THIN-WALL PIPING AUGMENTED EXAMINATIONS							
Weld	Fig	I3/P1	I3/P2	I3/P3	I4/P1	I4/P2	I4/P3
1. 1E11-2RHR-6A-DS-1	B-52						
2. 1E11-2RHR-10A-DS-1	B-52						
3. 1E11-2RHR-10A-DS-2	B-52						
4. 1E11-2RHR-6A-TSP-1	B-63						
5. 1E11-2RHR-6A-TSP-2	B-63						
6. 1E11-2RHR-6A-TSP-3	B-63				1R23		1R27 1R27
7. 1E11-2RHR-6A-TSP-4	B-63						
8. 1E11-2RHR-6A-TSP-5	B-63						
9. 1E11-2RHR-6A-TSP-6	B-63						
10. 1E11-2RHR-6A-TSP-7	B-63						
11. 1E11-2RHR-6A-TSP-8	B-63						
12. 1E11-2RHR-6A-TSP-9	B-63						
13. 1E11-2RHR-6A-TSP-10	B-63						
14. 1E11-2RHR-6A-TSP-11	B-63						
15. 1E11-2RHR-6A-TSP-12	B-63						
16. 1E11-2RHR-6B-DS-1	B-62						
17. 1E11-2RHR-10B-DS-1	B-62						
18. 1E11-2RHR-10B-DS-2	B-62						
19. 1E11-2RHR-10B-DS-3	B-62						
20. 1E11-2RHR-6B-TSP-1	B-65						
21. 1E11-2RHR-6B-TSP-2	B-65						
22. 1E11-2RHR-6B-TSP-3	B-65						
23. 1E11-2RHR-6B-TSP-4	B-65						
24. 1E11-2RHR-6B-TSP-5	B-65						
25. 1E11-2RHR-6B-TSP-6	B-65						
26. 1E11-2RHR-6B-TSP-7	B-65						
27. 1E11-2RHR-6B-TSP-8	B-65	1R18					
28. 1E11-2RHR-6B-TSP-9	B-65						
29. 1E11-2RHR-6B-TSP-10	B-65						
30. 1E11-2RHR-8-FPD-1	B-71			1R22			
31. 1E11-2RHR-8-FPD-2	B-71			1R22			
32. 1E11-2RHR-8-FPD-3	B-71						
33. 1E11-2RHR-8-FPD-4	B-71						
34. 1E11-2RHR-8-FPD-5	B-71						
35. 1E11-2RHR-10A-SWDS-1	B-48						
36. 1E11-2RHR-10A-SWDS-2	B-48						
37. 1E11-2RHR-10A-SWDS-3	B-48						
38. 1E11-2RHR-10A-SWDS-4	B-48						
39. 1E11-2RHR-10A-SWDS-5	B-48	1R18					
40. 1E11-2RHR-10A-SWDS-6	B-48						
41. 1E11-2RHR-10A-SWDS-7	B-48						

**HATCH UNIT 1 FOURTH INTERVAL ISI PLAN
CLASS 2 COMPONENTS**

THIN-WALL PIPING AUGMENTED EXAMINATIONS							
Weld	Fig	I3/P1	I3/P2	I3/P3	I4/P1	I4/P2	I4/P3
42. 1E11-2RHR-10A-SWDS-8	B-48					1R25	
43. 1E11-2RHR-10A-SWDS-9	B-48						
44. 1E11-2RHR-10A-SWDS-10	B-48						
45. 1E11-2RHR-10A-SWDS-11	B-48						
46. 1E11-2RHR-10A-SWDS-12	B-48						
47. 1E11-2RHR-10B-SWDS-1	B-60						
48. 1E11-2RHR-10B-SWDS-2	B-60						
49. 1E11-2RHR-10B-SWDS-3	B-60						
50. 1E11-2RHR-10B-SWDS-4	B-60		1R20				
51. 1E11-2RHR-10B-SWDS-5	B-60						
52. 1E11-2RHR-10B-SWDS-6	B-60						
53. 1E11-2RHR-10B-SWDS-7	B-60						
54. 1E11-2RHR-10B-SWDS-8A	B-60						
55. 1E11-2RHR-10B-SWDS-9A	B-60						
56. 1E11-2RHR-10B-SWDS-10	B-60						
57. 1E11-2RHR-10B-SWDS-11	B-60						
58. 1E11-2RHR-10B-SWDS-12	B-60						
59. 1E21-2CS-10A-1	B-6						
60. 1E21-2CS-10A-2	B-6						
61. 1E21-2CS-10A-3	B-6						
62. 1E21-2CS-10B-1	B-9						
63. 1E21-2CS-10B-2	B-9						
64. 1E21-2CS-10B-3	B-9						
65. 1E21-2CS-10B-4	B-9						
65 TOTAL WELDS 5 WELDS REQUIRED		2	1	2	2	1	2

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

THIN-WALL PIPING NOT IN THE EXAMINATION COMMITMENT TO THE NRC			
Weld	Fig.		Basis for Not Including in the Thin-Wall Examination Scope
1E11-2RHR-6A-RVD-1	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-2	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-3	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-4	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-5	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-6	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-7	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-8	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-9	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-10	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-11	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-12	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-13	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-14	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-15	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-16	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-17	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-18	B-69		Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6B-RVD-1	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-2	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-3	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-4	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-5	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-6	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-7	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-8	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-9	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-10	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-11	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-12	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-13	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-14	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-15	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-16	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-17	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-18	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-19	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-20	B-73		Isolable (1E11-F055B) - Not ECC
1E11-2RHR-8-FPS-7	B-72		Suction Piping – Not Required
1E11-2RHR-8-FPS-8	B-72		Suction Piping – Not Required
1E11-2RHR-8-FPS-9	B-72		Suction Piping – Not Required

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

THIN-WALL PIPING NOT IN THE EXAMINATION COMMITMENT TO THE NRC		
Weld	Fig.	Basis for Not Including in the Thin-Wall Examination Scope
1E11-2RHR-8-FPS-10	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-11	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-12	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-13	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-14	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-15	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-16	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-17	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-18	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-19	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-20	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-21	B-72	Suction Piping – Not Required
1E11-2RHR-8-FPS-22	B-72	Suction Piping – Not Required
1E21-2CS-10A-TL-1	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-2	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-3	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-4	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-5	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-6	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-7	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-8	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-9	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-10	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-11	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-12	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-13	B-5	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-1	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-2	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-3	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-4	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-6	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-7	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-8	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-9	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-10	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-11	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-12	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-13	B-8	Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-14	B-8	Isolable Test Line – Not ECC, RHR, or CHR

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 2 COMPONENTS

Additionally, portions of the Reactor Core Isolation Cooling are designated as Class S on Boundary Diagram HB-16334 and HB-16335. It will be treated using Section XI as a guideline (not as a requirement). As discussed for the Class 2 portion of this piping, this system does not have an RHR, ECC, or CHR function; therefore, the size exemption and the pressure/temperature exemption will also be used for this Class S piping. Lines within Class S were evaluated below for examination potential.

- 6" Suction Line from the Condensate Storage Tank (Designated as 1E51-2RCIC-6PS-1 thru 24 on Figure B-88 and listed as Category CF-R in Schedule Works). This piping is pressure/temperature exempt because it is at static pressure and ambient temperature; therefore, examination of piping welds and integrally welded attachments in not required.
- 6" Suction Line from valve 1E51-F031 through valve 1E51-F029 (Designated as 1E51-2RCIC-6TS-10, 11, 12, 13, and 14 on Figure B-89 and listed as Category CF-R in Schedule Works). This piping is *pressure/temperature exempt* because it is highly unlikely that it would ever exceed the prescribed pressure/temperature. Therefore, examination of welds and integrally welded attachments in not required.
- 4" Pump Discharge Line – This piping is *size exempt*; therefore, examination of piping welds and integrally welded attachments in not required. (Not shown in Schedule Works).
- 4" (and less) Steam Supply – This piping is *size exempt*; therefore, examination of piping welds and integrally welded attachments in not required. (Not shown in Schedule Works).
- 10" Steam Exhaust from the turbine to valve 1E51-F040 (Designated as 1E51-2RCIC-1 thru 24 and shown as Category CF-R in Schedule Works). This piping is shown on Figures B-24 and B-25 and is not pressure/temperature exempt because of the steam conditions. However, all of this piping is 0.365" nominal wall thickness and therefore does not require examination of the piping welds. The welded attachments on this line are subject to Category "CC" type exams and are shown in the following table. 1E51-2RCIC-10-TD-12PS-1 (25% sample) was examined during the 3rd Period. These attachments are designated as Category CC-R in Schedule Works.

Class S "Non-Exempt" RCIC Integrally Welded Attachments					
Welded Attachment	Fig	I3/P1	I3/P2	I3/P3	Support
1. 1E51-2RCIC-10-TD-10PS-1 AND 2	B-24				E51-RCSEH-3
2. 1E51-2RCIC-10-TD-12PS-1	B-24			C	E51-RCSEH-719
3. 1E51-2RCIC-10-TD-14PS-1 THRU 4	B-25				E51-RCSEH-4
4. 1E51-2RCIC-10-TD-4PL-1 THRU 4	B-24				E51-RCSEH-714

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
C-A	C1.10		4	50%	2	2	2	1	50.00%	50%	0	50.00%	50%	1	100.00%	100%
C-A	C1.20		2	50%	1	1	1	0	0%	0%	1	100.00%	100%	0	100.00%	100%
Total:			6		3	3	3	1	33.30%	34%	1	66.60%	67%	1	100%	100%

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
C-B	C2.21		4	50%	2	2	2	1	50.00%	50%	1	100.00%	100%	0	100.00%	100%
C-B	C2.22		4	50%	2	2	2	0	0%	0%	0	0.00%	0%	2	100.00%	100%
Total:			8		4	4	4	1	25%	25%	1	50%	50%	2	100%	100%

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
C-C	C3.10		10	10%	1	1	1	0	0%	0%	1	100.00%	100%	0	100.00%	100%
C-C	C3.20		210	10%	21	21	21	6	28.57%	29%	8	66.67%	67%	7	100.00%	100%
Total:			220		22	22	22	6	27.20%	28%	9	68.10%	69%	7	100%	100%

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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
C-F-2	C5.51CPI		63	7.50%	4.73	5	6	3	63.42%	60%	1	84.57%	80%	2	126.85%	120%
C-F-2	C5.51CS		157	7.50%	11.78	12	13	3	25.47%	25%	4	59.42%	59%	6	110.36%	109%
C-F-2	C5.51HPCI		147	7.50%	11.03	12	13	6	54.40%	50%	2	72.53%	67%	5	117.86%	109%
C-F-2	C5.51MS		89	7.50%	6.68	7	6	1	14.97%	15%	3	59.88%	58%	2	89.82%	86%
C-F-2	C5.51RCIC		14	0%	0	0	0	0	0%	0%	0	0%	0%	0	0%	0%
C-F-2	C5.51RHR		534	7.50%	40.05	41	46	15	37.45%	37%	19	84.89%	83%	12	114.86%	113%
C-F-2	C5.51TDP		10	7.50%	0.75	1	0	0	0%	0%	0	0.00%	0%	0	0%	0%
C-F-2	C5.51TSP		48	7.50%	3.6	4	4	2	55.56%	50%	1	83.33%	75%	1	111.11%	100%
C-F-2	C5.81CPI		2	7.50%	0.15	1	0	0	0%	0%	0	0.00%	0%	0	0%	0%
C-F-2	C5.81CS		2	7.50%	0.15	1	0	0	0%	0%	0	0.00%	0%	0	0%	0%
C-F-2	C5.81HPCI		2	7.50%	0.15	1	0	0	0%	0%	0	0.00%	0%	0	0%	0%
C-F-2	C5.81MS		2	7.50%	0.15	1	1	1	666.67%	100%	0	666.67%	100%	0	666.67%	100%
C-F-2	C5.81RHR		29	7.50%	2.18	3	0	0	0%	0%	0	0.00%	0%	0	0%	0%
C-F-2	C5.81TSB		2	7.50%	0.15	1	0	0	0%	0%	0	0.00%	0%	0	0%	0%
C-F-2	C5.81TSP		2	7.50%	0.15	1	0	0	0%	0%	0	0.00%	0%	0	0%	0%
Total:			1103		82	91	89	31	37.80%	34%	30	74.30%	67%	28	108.00%	98%

Category, ItemNO, Class	Summary / Compld / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-A	H1 1E11-2HX-A-1		B-32	ISI	-	-	-	-	-	-
C1.20	1E11-2HX-A-1		SHELL HEAD TO UPPER SHELL RING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-A	H1 1E11-2HX-A-2		B-32	ISI	-	-	-	-	-	-
C1.10	1E11-2HX-A-2		RING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-A	H1 1E11-2HX-A-3		B-32	ISI	-	-	-	-	-	-
C1.10	1E11-2HX-A-3		LOWER SHELL RING TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-A	H1 1E11-2HX-B-1		B-32	ISI	-	-	-	-	-	-
C1.20	1E11-2HX-B-1		SHELL HEAD TO UPPER SHELL RING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-A	H1 1E11-2HX-B-2	ISI//	B-32	ISI	-	s	-	-	-	-
C1.10	1E11-2HX-B-2		RING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-A	H1 1E11-2HX-B-3	ISI//	B-32	ISI	-	-	-	-	-	s
C1.10	1E11-2HX-B-3		LOWER SHELL RING TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-B	H1 1E11-2HX-A-I	ISI//	B-32	ISI	-	s	-	-	-	-
C2.21	1E11-2HX-A-I	ISI//	INLET NOZZLE TO RHR HX SHELL	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-B	H1 1E11-2HX-A-I-IRS		B-32	ISI	-	-	-	-	-	s
C2.22	1E11-2HX-A-I-IRS		RHR HX INLET NOZZLE INNER RADIUS	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-B	H1 1E11-2HX-A-O		B-32	ISI	-	-	-	-	-	-
C2.21	1E11-2HX-A-O		RHR HX SHELL TO OUTLET NOZZLE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-B	H1 1E11-2HX-A-O-IRS		B-32	ISI	-	-	-	-	-	-
C2.22	1E11-2HX-A-O-IRS		RADIUS	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-B	H1 1E11-2HX-B-I		B-32	ISI	-	-	-	-	-	-
C2.21	1E11-2HX-B-I		INLET NOZZLE TO RHR HX SHELL	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-B	H1 1E11-2HX-B-I-IRS		B-32	ISI	-	-	-	-	-	-
C2.22	1E11-2HX-B-I-IRS		RHR HX INLET NOZZLE INNER RADIUS	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-B	H1 1E11-2HX-B-O		B-32	ISI	-	-	s	-	-	-
C2.21	1E11-2HX-B-O		RHR HX SHELL TO OUTLET NOZZLE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-B	H1 1E11-2HX-B-O-IRS		B-32	ISI	-	-	-	-	s	-
C2.22	1E11-2HX-B-O-IRS		RADIUS	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2HX-A-LSC-1		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-A-LSC-1		LOWER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2HX-A-USC-1		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-A-USC-1		UPPER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2HX-A-USC-2		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-A-USC-2		UPPER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2HX-A-USC-3		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-A-USC-3		UPPER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2HX-A-USC-4		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-A-USC-4		UPPER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2HX-B-LSC-1		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-B-LSC-1		LOWER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2HX-B-USC-1		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-B-USC-1		UPPER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2HX-B-USC-2		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-B-USC-2		UPPER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2HX-B-USC-3		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-B-USC-3		UPPER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2HX-B-USC-4		B-32	ISI	-	-	-	-	-	-
C3.10	1E11-2HX-B-USC-4		UPPER SUPPORT BRACKET	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-10A-SWDS-1PS-1 AND 2		B-48	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-10A-SWDS-1PS-1 AND 2		E11-RHRH-64	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-10A-SWDS-4PL-2 THRU 9		B-48	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-10A-SWDS-4PL-2 THRU 9		E11-RHRH-63	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-10B-SWDS-1PS-1 AND 2		B-60	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-10B-SWDS-1PS-1 AND 2		E11-RHRH-58	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-10B-SWDS-4PL-1 THRU 8		B-60	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-10B-SWDS-4PL-1 THRU 8		E11-RHRH-57	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16A-DS-14PS		B-52	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16A-DS-14PS		E11-RHRH-144	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16A-DS-16PS-1 AND 2		B-52	ISI	-	-	-	-	S	-
C3.20	1E11-2RHR-16A-DS-16PS-1 AND 2		E11-RHRH-708	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16A-DS-2PS		B-52	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16A-DS-2PS		E11-RHRH-235	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16A-DS-7PS		B-52	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16A-DS-7PS		E11-RHRH-236	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16A-HXI-7PL-2 THRU 5		B-44	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16A-HXI-7PL-2 THRU 5		E11-RHRH-39	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16A-HXO-4PL-1 THRU 4		B-47	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16A-HXO-4PL-1 THRU 4		E11-RHRH-42	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-16A-HXO-5PS		B-47	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16A-HXO-5PS		E11-RHRH-225	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16A-SH-15PS-1 AND 2		B-51	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16A-SH-15PS-1 AND 2		E11-RHRH-244	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16A-SH-5PS		B-51	ISI	-	-	-	s	-	-
C3.20	1E11-2RHR-16A-SH-5PS		E11-RHRH-248	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16B-DS-6PL-1 THRU 8		B-62	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16B-DS-6PL-1 THRU 8		E11-RHRH-240	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16B-HXI-3PS-1 THRU 4		B-55	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16B-HXI-3PS-1 THRU 4		E11-RHRH-411	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16B-HXI-6PL-2 THRU 5		B-55	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16B-HXI-6PL-2 THRU 5		E11-RHRH-30	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16B-HXI-7PL-1 AND 2		B-55	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16B-HXI-7PL-1 AND 2		E11-RHRH-213	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16B-HXO-3PS		B-58	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16B-HXO-3PS		E11-RHRH-33	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16B-HXO-4PS		B-58	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16B-HXO-4PS		E11-RHRH-218	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-16B-SH-15PS-1 AND 2		B-61	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16B-SH-15PS-1 AND 2		E11-RHRH-250	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-16B-SH-5PS		B-61	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-16B-SH-5PS		E11-RHRH-66	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-BP-1PL-1 THRU 8		B-49	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-BP-1PL-1 THRU 8		E11-RHRH-222	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-BP-1PS-1		B-49	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-BP-1PS-1		E11-RHRH-221	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-D-1PS-1 AND 2		B-34	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-D-1PS-1 AND 2		E11-RHRH-350	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-D-1PS-3 AND 4		B-34	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-D-1PS-3 AND 4		E11-RHRH-317	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-D-1PS-5		B-34	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-D-1PS-5		E11-RHRH-19	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-D-5PS-1		B-34	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-D-5PS-1		E11-RHRH-311	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-D-8PS		B-35	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-D-8PS		E11-RHRH-310	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-D-9PL-1 THRU 4		B-35	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-D-9PL-1 THRU 4		E11-RHRH-22	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-PD-A-6PS		B-43	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-PD-A-6PS		E11-RHRH-37	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-20A-PD-C-15PS-1 AND 2		B-45	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-PD-C-15PS-1 AND 2		E11-RHRH-38	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20A-PD-C-8PS-3 AND 4		B-45	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20A-PD-C-8PS-3 AND 4		E11-RHRH-40	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20B-D-1PS-3 AND 4		B-41	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20B-D-1PS-3 AND 4		E11-RHRH-200	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20B-D-1PS-5		B-41	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20B-D-1PS-5		E11-RHRH-17	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20B-D-5PS	ISI//	B-41	ISI	-	-	-	s	-	-
C3.20	1E11-2RHR-20B-D-5PS		E11-RHRH-194	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20B-D-8PS		B-41	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20B-D-8PS		E11-RHRH-193	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20B-D-9PL-1 THRU 4		B-41	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20B-D-9PL-1 THRU 4		E11-RHRH-16	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20B-PD-B-7PS		B-54	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20B-PD-B-7PS		E11-RHRH-28	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20B-PD-D-4PL-1 AND 2		B-53	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20B-PD-D-4PL-1 AND 2		E11-RHRH-209	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20B-PD-D-4PS-1 AND 2		B-53	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20B-PD-D-4PS-1 AND 2		E11-RHRH-31	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-20C-D-2PS		B-37	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20C-D-2PS		E11-RHRH-316	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20C-D-5PL-1 THRU 4		B-37	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20C-D-5PL-1 THRU 4		E11-RHRH-23	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20C-D-5PS-1 AND 2		B-37	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20C-D-5PS-1 AND 2		E11-RHRH-315	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20C-D-9PL-1 THRU 8		B-37	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20C-D-9PL-1 THRU 8		E11-RHRH-719	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20D-D-2PS		B-40	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20D-D-2PS		E11-RHRH-199	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20D-D-5PL-1 THRU 4		B-40	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20D-D-5PL-1 THRU 4		E11-RHRH-13	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20D-D-5PL-5 AND 6		B-40	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20D-D-5PL-5 AND 6		E11-RHRH-198	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20-RS-13PS-1		B-33	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20-RS-13PS-1		E11-RHRH-25	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20-RS-17PS-1		B-33	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20-RS-17PS-1		E11-RHRH-24	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20-RS-5PS-1 AND 2		B-33	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20-RS-5PS-1 AND 2		E11-RHRH-203	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-20-RS-5PS-3		B-33	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20-RS-5PS-3		E11-RHRH-26	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-20-RS-9PS		B-33	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-20-RS-9PS		E11-RHRH-202	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-HXI-3PS		B-44	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-HXI-3PS		E11-RHRH-41	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-R-5PL-1 THRU 4		B-50	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-R-5PL-1 THRU 4		E11-RHRH-136	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-R-7PS-1 AND 2		B-50	ISI	-	-	-	-	s	-
C3.20	1E11-2RHR-24A-R-7PS-1 AND 2		E11-RHRH-319	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-A-10		B-36	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-A-10		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-A-10PL-3 AND 4		B-36	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-A-10PL-3 AND 4		E11-RHRH-712	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-A-3PS-1		B-36	ISI	-	-	-	-	s	-
C3.20	1E11-2RHR-24A-TS-A-3PS-1		E11-RHRH-4	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-A-4PL-1 AND 2		B-36	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-A-4PL-1 AND 2		E11-RHRH-709	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-A-6PL-1 AND 2		B-36	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-A-6PL-1 AND 2		E11-RHRH-711	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-24A-TS-A-7PL-1 AND 2		B-36	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-A-7PL-1 AND 2		E11-RHRH-710	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-A-9PL-1 THRU 8		B-36	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-A-9PL-1 THRU 8		E11-RHRH-323	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-C-13		B-38	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-C-13		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-C-16PS		B-38	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-C-16PS		E11-RHRH-331	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-C-5PL-1 AND 2		B-38	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-C-5PL-1 AND 2		E11-RHRH-718	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24A-TS-C-9PS		B-38	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24A-TS-C-9PS		E11-RHRH-11	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-BP-12PS		B-56	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-BP-12PS		E11-RHRH-304	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-BP-3PL-1 AND 2		B-56	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-BP-3PL-1 AND 2		E11-RHRH-216	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-BP-8PL-1 THR 8		B-56	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-BP-8PL-1 THR 8		E11-RHRH-306	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-BP-8PL-1 THRU 8		B-56	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-BP-8PL-1 THRU 8		E11-RHRH-306	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-24B-BP-8PS-9		B-56	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-BP-8PS-9		E11-RHRH-305	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-HXI-2PS-1 THRU 4		B-55	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-HXI-2PS-1 THRU 4		E11-RHRH-800	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-HXI-3PS		B-55	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-HXI-3PS		E11-RHRH-32	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-R-4PL-1 THRU 4		B-59	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-R-4PL-1 THRU 4		E11-RHRH-140	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-B-10		B-42	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-B-10		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-B-10PL-1 THRU 4		B-42	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-B-10PL-1 THRU 4		E11-RHRH-715	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-B-3PS-1		B-42	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-B-3PS-1		E11-RHRH-1	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-B-4PL-1 AND 2		B-42	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-B-4PL-1 AND 2		E11-RHRH-713	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-B-6PL-1 AND 2		B-42	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-B-6PL-1 AND 2		E11-RHRH-716	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-B-8PL-1 AND 2		B-42	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-B-8PL-1 AND 2		E11-RHRH-714	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-24B-TS-B-9PL-1 THRU 8		B-42	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-B-9PL-1 THRU 8		E11-RHRH-187	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-D-12		B-39	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-D-12		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-D-12PL-1 AND 2		B-39	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-D-12PL-1 AND 2		E11-RHRH-190	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-D-15PS		B-39	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-D-15PS		E11-RHRH-330	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-D-5PL-1 AND 2		B-39	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-D-5PL-1 AND 2		E11-RHRH-720	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-24B-TS-D-9PS		B-39	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-24B-TS-D-9PS		E11-RHRH-8	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-6A-RVD-11PL-1 THRU 8		B-69	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-6A-RVD-11PL-1 THRU 8		E11-HPSEH-85	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-6A-RVD-1PL-1 THRU 8		B-69	ISI	-	-	-	-	s	-
C3.20	1E11-2RHR-6A-RVD-1PL-1 THRU 8		E41-HPSEH-81	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-6A-SS-12PS-1		B-67	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-6A-SS-12PS-1		E41-HPSEH-68	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-6A-SS-1PS-1		B-67	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-6A-SS-1PS-1		E41-HPSEH-63	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-6A-SS-1PS-2		B-67	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-6A-SS-1PS-2		E41-HPSEH-37	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-6B-RVD-14PL-9 AND 10		B-73	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-6B-RVD-14PL-9 AND 10		E41-HPSEH-75	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-6B-RVD-14PS-1 AND 2		B-73	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-6B-RVD-14PS-1 AND 2		E41-HPSEH-75	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-6B-RVD-4PS		B-73	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-6B-RVD-4PS		E41-HPSEH-48	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-6B-TSP-3PL-1 AND 2		B-65	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-6B-TSP-3PL-1 AND 2		E11-RHRH-74	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-6B-TSP-5PS-1 AND 2		B-65	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-6B-TSP-5PS-1 AND 2		E11-RHRH-76	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-8-FPS-11PS-1 AND 2		B-72	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-8-FPS-11PS-1 AND 2		E11-RHRH-318	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-8-FPS-13PS-1 AND 2		B-72	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-8-FPS-13PS-1 AND 2		E11-RHRH-154	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-8-FPS-18PS		B-72	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-8-FPS-18PS		E11-RHRH-207	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E11-2RHR-8-FPS-20PL-1 THRU 4		B-72	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-8-FPS-20PL-1 THRU 4		E11-RHRH-153	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E11-2RHR-8-HS-7PS-1		B-70	ISI	-	-	-	-	-	-
C3.20	1E11-2RHR-8-HS-7PS-1		E11-RHRH-243	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-10A-TL-1PL-1 THRU 4		B-5	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-10A-TL-1PL-1 THRU 4		E21-CSH-22	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-10A-TL-7PS		B-5	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-10A-TL-7PS		E21-CSH-23	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-10B-TL-9PS-1		B-8	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-10B-TL-9PS-1		E21-CSH-28	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12A-22PS-1 THRU 4		B-6	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12A-22PS-1 THRU 4		E21-CSH-75	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12A-24PS-1 AND 2		B-6	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12A-24PS-1 AND 2		E21-CSH-35	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12A-27PS-1 THRU 4		B-6	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12A-27PS-1 THRU 4		E21-CSH-76	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12A-34PS-1 AND 2		B-6	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12A-34PS-1 AND 2		E21-CSH-77	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12A-36PS		B-6	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12A-36PS		E21-CSH-79	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12A-7PL-1 THRU 4		B-3	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12A-7PL-1 THRU 4		E21-CSH-21	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E21-2CS-12A-8PS-1 AND 2		B-3	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12A-8PS-1 AND 2		E21-CSH-71	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12A-9PS-1 THRU 4		B-3	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12A-9PS-1 THRU 4		E21-CSH-72	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12B-10PL-1 THRU 4	ISI/MT/NMP-ES-024-401	B-7	ISI	s	-	-	-	-	-
C3.20	1E21-2CS-12B-10PL-1 THRU 4		E21-CSH-26	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12B-11PS-1 AND 2	ISI/MT/NMP-ES-024-401	B-7	ISI	s	-	-	-	-	-
C3.20	1E21-2CS-12B-11PS-1 AND 2		E21-CSH-57	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12B-12PL-1 THRU 8		B-7	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12B-12PL-1 THRU 8		E21-CSH-58	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12B-15		B-7	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12B-15		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12B-17PS-1 THRU 3		B-7	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12B-17PS-1 THRU 3		E21-CSH-60	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-12B-27PL-1 THRU 4		B-9	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-12B-27PL-1 THRU 4		E21-CSH-30	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-16A-TS-11PS-3		B-2	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-16A-TS-11PS-3		E21-CSH-19	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-16A-TS-16PS		B-2	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-16A-TS-16PS		E21-CSH-42	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E21-2CS-16A-TS-17PS		B-2	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-16A-TS-17PS		E21-CSH-20	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-16A-TS-7PS-1		B-2	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-16A-TS-7PS-1		E21-CSH-18	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-16B-TS-10PS	ISI/MT/NMP-ES-024-401	B-1	ISI	s	-	-	-	-	-
C3.20	1E21-2CS-16B-TS-10PS		E21-CSH-10	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-16B-TS-11		B-1	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-16B-TS-11		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-16B-TS-15PS		B-1	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-16B-TS-15PS		E21-CSH-41	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-16B-TS-16PS		B-1	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-16B-TS-16PS		E21-CSH-11	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E21-2CS-16B-TS-7PS		B-1	ISI	-	-	-	-	-	-
C3.20	1E21-2CS-16B-TS-7PS		E21-CSH-9	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-11PL-1 THRU 8		B-22	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-11PL-1 THRU 8		E41-HPSEH-61	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-11PL-9		B-22	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-11PL-9		E41-HPSEH-20	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-17PS-1		B-18	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-17PS-1		E41-HPSEH-29	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E41-2HPCI-10-SS-1PL-1 THRU 4		B-21	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-1PL-1 THRU 4		E41-HPSEH-813	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-20		B-18	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-20		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-20PS-1 AND 2		B-18	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-20PS-1 AND 2		E41-HPSEH-30	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-21PL-3 THRU 10		B-19	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-21PL-3 THRU 10		E41-HPSEH-60	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-21PS-1 AND 2		B-19	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-21PS-1 AND 2		E41-HPSEH-31	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-21PS-11		B-19	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-21PS-11		E41-HPSEH-32	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-27PL-1 THRU 8		B-19	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-27PL-1 THRU 8		E41-HPSEH-56	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-32PL-1 DEVICE		B-20	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-32PL-1 DEVICE		E41-HPSEH-54	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-32PS-1		B-20	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-32PS-1		E41-HPSEH-55	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-10-SS-3PL-1 THRU 4		B-21	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-10-SS-3PL-1 THRU 4		E11-RBHX-83	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E41-2HPCI-14-R-21PS-1 AND 2		B-11	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-14-R-21PS-1 AND 2		E41-HPCIH-23	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-14-R-22		B-11	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-14-R-22		PENETRATION TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-14-R-28PS-1 AND 2		B-11	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-14-R-28PS-1 AND 2		E41-HPCIH-38	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-14-R-32PS		B-11	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-14-R-32PS		E41-HPCIH-27A	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-14-R-34PL-1 THRU 4		B-11	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-14-R-34PL-1 THRU 4		E41-HPCIH-28	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-14-R-6PS	ISI/MT/	B-10	ISI	-	-	-	-	s	-
C3.20	1E41-2HPCI-14-R-6PS		E41-HPCI-11B	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-14-R-9PL-1 THRU 8	ISI/MT/	B-10	ISI	-	s	-	-	-	-
C3.20	1E41-2HPCI-14-R-9PL-1 THRU 8		E41-HPCIH-12	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-16-CS-11PS-1		B-13A	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-16-CS-11PS-1		E41-HPCI-H7	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-16-CS-PS-1		B-13A	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-16-CS-PS-1		E41-HPCI-H1	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-16-PS-1PS		B-87	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-16-PS-1PS		E41-HPCIH-9	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E41-2HPCI-16-RD-1PL-1 THRU 8	ISI/MT/	B-17	ISI	-	s	-	-	-	-
C3.20	1E41-2HPCI-16-RD-1PL-1 THRU 8		E41-HPSEH-89	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-16-TS-11PS-1		B-13	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-16-TS-11PS-1		E41-HPCIH-8	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-16-TS-4PS-1		B-13	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-16-TS-4PS-1		E41-HPCIH-11	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-16-TS-7PL-1 THRU 8		B-13	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-16-TS-7PL-1 THRU 8		E41-HPCIH-700	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-16-TS-7PS-1 THRU 4		B-13	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-16-TS-7PS-1 THRU 4		E41-HPCIH-10	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-18-TD-5PS-1-1 AND 2	ISI/MT/	B-14	ISI	-	s	-	-	-	-
C3.20	1E41-2HPCI-18-TD-5PS-1-1 AND 2		E41-HPSEH-1	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-18-TD-5PS-2-1 AND 2		B-14	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-18-TD-5PS-2-1 AND 2		E41-HPSEH-2	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-18-TD-6PL-1 THRU 4		B-14	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-18-TD-6PL-1 THRU 4		E41-HPSEH-701	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-20-TD-11PS-1		B-15	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-20-TD-11PS-1		E41-HPSEH-10	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-20-TD-4PL-1 THRU 8		B-15	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-20-TD-4PL-1 THRU 8		E41-HPSEH-6	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1E41-2HPCI-20-TD-6PL-1 THRU 8		B-15	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-20-TD-6PL-1 THRU 8		E41-HPSEH-8	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-20-TD-6PS-1 AND 2		B-15	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-20-TD-6PS-1 AND 2		E41-HPSEH-8A	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E41-2HPCI-20-TD-7		B-15	ISI	-	-	-	-	-	-
C3.20	1E41-2HPCI-20-TD-7		PENETRATION TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E51-2RCIC-6-TS-5PS-1		B-89	ISI	-	-	-	-	-	-
C3.20	1E51-2RCIC-6-TS-5PS-1		E51-RCIC-17	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1E51-2RCIC-6-TS-8PS-1 THRU 5		B-89	ISI	-	-	-	-	-	-
C3.20	1E51-2RCIC-6-TS-8PS-1 THRU 5		E51-RCICH-16A	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24A-11PS-1 THRU 4		B-74	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24A-11PS-1 THRU 4		N11-MSH-24	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24A-11PS-5 AND 6		B-74	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24A-11PS-5 AND 6		N11-MSH-21	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24A-12PS-1 AND 2	ISI//	B-74	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24A-12PS-1 AND 2		N11-MSH-25	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24A-16PS-1 AND 2		B-74	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24A-16PS-1 AND 2		N11-MSH-38	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24A-5PL-1 THRU 8		B-74	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24A-5PL-1 THRU 8		N11-MSH-59	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1N11-2MSA-24A-8PS-1 AND 2		B-74	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24A-8PS-1 AND 2		N11-MSH-20	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24B-13PS-1 AND 2		B-75	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24B-13PS-1 AND 2		N11-MSH-35	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24B-17PS-1 AND 2		B-75	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24B-17PS-1 AND 2		N11-MSH-39	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24B-5APS-1 AND 2		B-75	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24B-5APS-1 AND 2		N11-MSH-40	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24B-5APS-1A AND 2A		B-75	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24B-5APS-1A AND 2A		N11-MSH-27	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24B-9PS-1 AND 2		B-75	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24B-9PS-1 AND 2		N11-MSH-30	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24C-10PS-1 AND 2		B-76	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24C-10PS-1 AND 2		N11-MSH-4	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24C-11PS		B-76	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24C-11PS		N11-MSH-6	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24C-12PS		B-76	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24C-12PS		N11-MSH-7	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24C-18PS-1 AND 2		B-76	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24C-18PS-1 AND 2		N11-MSH-36	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1N11-2MSA-24C-7PS		B-76	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24C-7PS		N11-MSH-2	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24C-9PS		B-76	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24C-9PS		N11-MSH-3	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24D-11PS-1 THRU 4		B-77	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24D-11PS-1 THRU 4		N11-MSH-15	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24D-15PS-1 AND 2		B-77	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24D-15PS-1 AND 2		N11-MSH-37	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24D-1PS-1 AND 2	ISI/MT/	B-77	ISI	-	s	-	-	-	-
C3.20	1N11-2MSA-24D-1PS-1 AND 2		N11-AD-1	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24D-7PS		B-77	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24D-7PS		N11-MSH-11	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N11-2MSA-24D-9PS		B-77	ISI	-	-	-	-	-	-
C3.20	1N11-2MSA-24D-9PS		N11-MSH-12	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16A-3PS		B-80	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16A-3PS		N11-TBH-25	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16A-5HL		B-80	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16A-5HL		N11-TBH-32	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16A-5PS-1		B-80	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16A-5PS-1		N11-TBH-32	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1N37-2TSB-16A-5PS-2		B-80	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16A-5PS-2		N11-TBH-26	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16A-8PS		B-80	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16A-8PS		N11-TBH-27	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16A-9HL		B-80	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16A-9HL		N11-TBH-34	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16A-9PS		B-80	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16A-9PS		N11-TBH-34	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16AB-3PS		B-80	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16AB-3PS		N11-TBH-24	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16B-12PS-1 AND 2		B-81	ISI	-	-	-	-	s	-
C3.20	1N37-2TSB-16B-12PS-1 AND 2		N11-TBH-36	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16B-3PS		B-81	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16B-3PS		N11-TBH-21	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16B-5PS	ISI/MT/	B-81	ISI	-	-	-	-	-	s
C3.20	1N37-2TSB-16B-5PS		N11-TBH-22	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16B-8HL		B-81	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16B-8HL		N11-TBH-23	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1N37-2TSB-16B-8PS		B-81	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16B-8PS		N11-TBH-23	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1N37-2TSB-16BD-6PS		B-81	ISI	-	-	-	-	-	-
C3.20	1N37-2TSB-16BD-6PS		N11-TBH-20	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1P41-SWH- 90 ATT		B-105	ISI	-	-	-	-	-	-
C3.20	1P41-SWH- 90 ATT		Lugs	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1P41-SWH- 92 ATT		B-102	ISI	-	-	-	-	-	-
C3.20	1P41-SWH- 92 ATT		Lugs	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1P41-SWH- 95 ATT		B-101	ISI	-	-	-	-	-	-
C3.20	1P41-SWH- 95 ATT		Lugs	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1P41-SWH-104 ATT		B-103	ISI	-	-	-	-	-	-
C3.20	1P41-SWH-104 ATT		Lugs	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1P41-SWH-143 ATT		B-101	ISI	-	-	-	-	-	-
C3.20	1P41-SWH-143 ATT		Lugs	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1P41-SWH-173 ATT		B-101	ISI	-	-	-	-	-	-
C3.20	1P41-SWH-173 ATT		Lugs	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1P41-SWH-259 ATT		B-103	ISI	-	-	-	-	-	-
C3.20	1P41-SWH-259 ATT		Lugs	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1P41-SWH-86 ATT		B-106	ISI	-	-	-	-	-	-
C3.20	1P41-SWH-86 ATT		86	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1T48-2CPI-18-PIT-4PS-1 AND 2		B-26	ISI	-	-	-	-	-	-
C3.20	1T48-2CPI-18-PIT-4PS-1 AND 2		T48-CPH-20	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-C	H1 1T48-2CPI-6-SVD-5PS-1 AND 2		B-30	ISI	-	-	-	-	-	-
C3.20	1T48-2CPI-6-SVD-5PS-1 AND 2		T48-CPH-35	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-C	H1 1T48-2CPI-6-SVD-8PS-1 AND 2		B-30	ISI	-	-	-	-	-	-
C3.20	1T48-2CPI-6-SVD-8PS-1 AND 2		T48-CPH-55	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-1RHR-24A-R-2		B-50	ISI	-	-	-	-	-	-
C5.51RHR	1E11-1RHR-24A-R-2		VALVE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-DS-1		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-DS-1		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-DS-2		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-DS-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-1		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-10		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-11		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-11		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-12		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-12		VALVE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-2		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-2		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-3		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-3		VALVE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-4		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-10A-SWDS-5	AUG//	B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-5		PIPE TO ELBOW (Thin-Wall Augmented)	AUG	-	s	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-6		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-7		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-8		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10A-SWDS-9		B-48	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10A-SWDS-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-DS-1		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-DS-1		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-DS-2		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-DS-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-DS-3		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-DS-3		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-1		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-10		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-10B-SWDS-11		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-11		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-12		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-12		VALVE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-2		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-2		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-3		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-3		VALVE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-4	AUG//	B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-4		ELBOW TO PIPE (Thin-Wall Augmented)	AUG	-	-	-	s	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-5		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-6		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-7		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-8A		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-8A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-10B-SWDS-9A		B-60	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-10B-SWDS-9A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-14A-SS-1		B-68	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-14A-SS-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	4A-SS		B-68	ISI	-	-	-	-	-	-
C5.81RHR	SS		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-14A-SS-2		B-68	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-14A-SS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-14A-SS-3		B-68	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-14A-SS-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-14A-SS-4		B-68	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-14A-SS-4		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-14B-SS-1		B-57	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-14B-SS-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	4B-SS		B-57	ISI	-	-	-	-	-	-
C5.81RHR	SS		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-14B-SS-2		B-57	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-14B-SS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-14B-SS-3		B-57	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-14B-SS-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-14B-SS-4		B-57	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-14B-SS-4		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16A-DS-1	ISI/UT/NMP-ES-024-502	B-52	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-1		BRANCH CONNECTION TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-10		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-10		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-11		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-11		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-12		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-13		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-14		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-15	ISI//	B-52	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-16A-DS-15		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-16		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-16		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	6A-DS		B-52	ISI	-	-	-	-	-	-
C5.81RHR	DS		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-18		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-18		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16A-DS-19		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-19		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-2		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-20		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-20		VALVE TO REUDCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-3		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-4		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-5	ISI//	B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-6		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-7		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-7		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-8		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-DS-9		B-52	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-DS-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16A-HXI-1		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXI-10		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXI-11		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-11		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXI-2		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXI-3		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXI-4		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXI-5	ISI//	B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-5		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXI-6		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-6		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXI-7		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXI-8		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16A-HXI-9		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXI-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXO-1		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXO-1		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXO-2		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXO-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXO-3		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXO-3		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXO-4		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXO-4		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXO-5		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXO-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXO-6		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXO-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXO-7		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXO-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-HXO-8		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-HXO-8		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-PD-A-1		B-43	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-PD-A-1		PUMP TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	2RHR-4TL-A		B-43	ISI	-	-	-	-	-	-
C5.81RHR	4TL-A		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-PD-A-2		B-43	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-PD-A-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-PD-A-3		B-43	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-PD-A-3		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-PD-C-1		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-PD-C-1		PUMP TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-PD-C-2		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-PD-C-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-PD-C-3		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-PD-C-3		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-PD-C-4		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-PD-C-4		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-1		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-10		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-10		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-10BC		B-51	ISI	-	-	-	-	-	-
C5.81RHR	1E11-2RHR-16A-SH-10BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16A-SH-11		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-11		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-12		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-12		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-14		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-15		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-16		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-16		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-2		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-3		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-4		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-5		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-6		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-6		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16A-SH-7		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-7		VALVE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-8		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-8		TEE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-SH-9		B-51	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-SH-9		VALVE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-TL-1	ISI/UT/NMP-ES-024-502	B-64	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-16A-TL-1		REDUCER TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16A-TL-2	ISI//	B-64	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-16A-TL-2		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-1		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-10		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-11		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-11		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-12		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-12		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	6B-DS		B-62	ISI	-	-	-	-	-	-
C5.81RHR	DS		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16B-DS-13		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-13		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-14		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-14		VALVE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-2		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-3		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-4		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-4		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-5		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-6		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-7		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-7		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-8		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-8		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-DS-8BC-1		B-62	ISI	-	-	-	-	-	-
C5.81RHR	1E11-2RHR-16B-DS-8BC-1		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16B-DS-9		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-DS-9		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-1		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-1		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-10		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-11		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-11		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-2		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-3		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-3		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-4		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-5		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-5		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-6		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-6		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-7		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16B-HXI-8		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXI-9		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXI-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXO-1		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXO-1		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXO-2		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXO-2		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXO-3		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXO-3		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXO-4		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXO-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXO-5		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXO-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXO-6		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXO-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXO-7		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXO-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-HXO-8		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-HXO-8		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16B-PD-B-1		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-PD-B-1		PUMP TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-PD-B-2		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-PD-B-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-PD-B-3		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-PD-B-3		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-PD-D-1		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-PD-D-1		PUMP TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-PD-D-2		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-PD-D-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-PD-D-3		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-PD-D-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-PD-D-4		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-PD-D-4		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-1		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-10		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-10		TEE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-11		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-11		VALVE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16B-SH-12	ISI/UT/NMP-ES-024-502	B-61	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-12		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-13		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-13		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-14		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-15		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-16		B-61	ISI	-	-	s	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-16		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-2		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-3		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-4		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-5	ISI/UT/NMP-ES-024-502	B-61	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-6		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-6		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-16B-SH-7		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-7		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-8A	ISI//	B-61	ISI	-	s	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-8A		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-SH-9A		B-61	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-SH-9A		VALVE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-TL-1		B-66	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-TL-1		REDUCER TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-16B-TL-2		B-66	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-16B-TL-2		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-BP-1		B-49	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-BP-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	4A-BP		B-49	ISI	-	-	-	-	-	-
C5.81RHR	BP		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-BP-2		B-49	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-BP-2		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-1		B-34	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-10	ISI//	B-35	ISI	-	s	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-10		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20A-D-11		B-35	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-11		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-12		B-35	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-13		B-35	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-13		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-2		B-34	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-3	ISI//	B-34	ISI	-	s	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-4		B-34	ISI	-	-	-	s	-	-
C5.51RHR	1E11-2RHR-20A-D-4		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-5		B-34	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-5		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-6		B-34	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-7		B-34	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-D-8		B-35	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20A-D-9		B-35	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-D-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-HXI-1		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-HXI-1		REDUCER TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-HXI-2		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-HXI-2		REDUCER TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-HXI-3		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-HXI-3		TEE TO NOZZLE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-HXO-1		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-HXO-1		NOZZLE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-HXO-2	ISI//	B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-HXO-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	4A-HXO		B-47	ISI	-	-	-	-	-	-
C5.81RHR	HXO		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-HXO-3		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-HXO-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-HXO-4		B-47	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-HXO-4		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-A-1		B-43	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-A-1		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20A-PD-A-9		B-43	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-A-9		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-1		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-10		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-11	ISI//	B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-12		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-12		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-13		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-14		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-14		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-14A		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-14A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-15		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-16		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-16		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	2RHR-3A-TL-C		B-45	ISI	-	-	-	-	-	-
C5.81RHR	3A-TL-C		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-2		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-3		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-3		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-4	ISI/UT/	B-45	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-20A-PD-C-4		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	2RHR-4A-PD-C		B-45	ISI	-	-	-	-	-	-
C5.81RHR	4A-PD-C		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-5		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-5		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-6		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-6		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-7		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-7		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-8		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-8		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-PD-C-9		B-45	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-PD-C-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20A-TS-A-1		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-TS-A-1		REDUCER TO NOZZLE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20A-TS-C-1		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20A-TS-C-1		REDUCER TO NOZZLE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-BP-1		B-49	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-BP-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	4B-BP		B-49	ISI	-	-	-	-	-	-
C5.81RHR	BP		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-BP-2		B-49	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-BP-2		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-1		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-10	ISI//	B-41	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-20B-D-10		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-11		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-11		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-12		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-13		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-13		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20B-D-2		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-3		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-4		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-4		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-5		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-5		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-6		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-7	ISI/UT/NMP-ES-024-502	B-41	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-8		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-D-9		B-41	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-D-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-HXI-1		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-HXI-1		REDUCER TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-HXI-2		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-HXI-2		REDUCER TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20B-HXI-3		B-55	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-HXI-3		TEE TO NOZZLE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-HXO-1		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-HXO-1		NOZZLE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-HXO-2		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-HXO-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	4B-HXO		B-58	ISI	-	-	-	-	-	-
C5.81RHR	HXO		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-HXO-3		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-HXO-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-HXO-4		B-58	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-HXO-4		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-1		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-10		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-11		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-11		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	2RHR-3B-PD-B		B-54	ISI	-	-	-	-	-	-
C5.81RHR	3B-PD-B		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20B-PD-B-2		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-2		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-3		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-3		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	2RHR-4B-PD-B		B-54	ISI	-	-	-	-	-	-
C5.81RHR	4B-PD-B		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-4		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-4		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-5		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-5		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-6		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-7		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-8		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-8		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-B-9		B-54	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-B-9		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-D-1		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20B-PD-D-10		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-D-11		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-D-12		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-12		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-D-13		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-D-14		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-D-15		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-D-16		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-16		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-D-17		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-17		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	2RHR-4B-PD-D		B-53	ISI	-	-	-	-	-	-
C5.81RHR	4B-PD-D		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20B-PD-D-2		B-53	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20B-PD-D-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / Compld / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20C-D-1		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-10		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-11		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-12		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-12		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-2		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-3		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-4		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-4		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-5		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-5		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-6		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-7		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20C-D-8		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20C-D-9		B-37	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20C-D-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-1		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-10		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-11		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-12		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-12		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-2		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-3		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-4		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-4		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-5		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-5		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20D-D-6		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-7		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-8		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20D-D-9		B-40	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20D-D-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-1		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-1		VALVE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-10		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-11		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-12		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-13		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-14		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20-RS-15		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-16		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-16		PIPE TO ELBOW	AUG	-	-	s	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-17		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-17		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-18		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-18		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-19	ISI//	B-33	ISI	-	s	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-19		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-2	ISI/UT/	B-33	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-20-RS-2		CAP TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-20		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-20		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-3		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-3		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-4	ISI//	B-33	ISI	-	s	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-5		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-20-RS-6		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-7		B-33	ISI	-	-	-	s	-	-
C5.51RHR	1E11-2RHR-20-RS-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-8		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-20-RS-9		B-33	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-20-RS-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-1		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-1		TEE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-10		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-10		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-11		B-46	ISI	-	-	-	s	-	-
C5.51RHR	1E11-2RHR-24A-BP-11		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-12		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-12		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-13		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-14	ISI//	B-46	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-24A-BP-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24A-BP-15		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-15		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-16		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-16		TEE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-2		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-2		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-3		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-4		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-5		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-5		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-6		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-6		TEE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-7	ISI/UT/	B-46	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-24A-BP-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-7BC-1		B-46	ISI	-	-	-	-	-	-
C5.81RHR	1E11-2RHR-24A-BP-7BC-1		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-BP-8		B-46	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-BP-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24A-BP-9	ISI//	B-46	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-24A-BP-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-HXI-1		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-HXI-1		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-HXI-2		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-HXI-2		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-HXI-3		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-HXI-3		TEE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-HXI-4		B-44	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-HXI-4		TEE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-R-1		B-50	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-R-1		TEE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-R-2		B-50	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-R-2		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-R-3		B-50	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-R-3		TEE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-R-4		B-50	ISI	-	-	-	s	-	-
C5.51RHR	1E11-2RHR-24A-R-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-R-4BC		B-50	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-R-4BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24A-R-5		B-50	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-R-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-R-6		B-50	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-R-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-R-7		B-50	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-R-7		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	4A-R		B-50	ISI	-	-	-	-	-	-
C5.81RHR	1E11-2RHR-24A-R-7BC/ 1E11-2RHR-4A-R		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-R-8		B-50	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-R-8		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-1		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-1		TORUS PENETRATION TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-11		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-11		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-12		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-12		VALVE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-13		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-13		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	2RHR-4A-TS-A		B-36	ISI	-	-	-	-	-	-
C5.81RHR	4A-TS-A		TEE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24A-TS-A-14		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-14		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-15		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-16		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-16		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-17		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-17		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-2		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-2		ELBOW TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-3		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-3		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-4		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-5		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-5		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-6		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-7		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24A-TS-A-8		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-8		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-A-9		B-36	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-A-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-1		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-1		TORUS PENETRATION TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-10		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-11		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-12		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-12		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-14	ISI//	B-38	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-24A-TS-C-14		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-15		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-15		VALVE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	2RHR-4A-TS-C		B-38	ISI	-	-	-	-	-	-
C5.81RHR	4A-TS-C		PIPE TO BRANCH CONN	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-16		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-16		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	2RHR-4A-TS-C		B-38	ISI	-	-	-	-	-	-
C5.81RHR	4A-TS-C		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-17		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-17		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-18		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-18		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-2		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-2		ELBOW TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-3	ISI/UT/NMP-ES-024-502	B-38	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-3		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-4		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-5		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-5		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-6		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-7	ISI/UT/	B-38	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-24A-TS-C-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24A-TS-C-8		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-8		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24A-TS-C-9		B-38	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24A-TS-C-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-1		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-1		TEE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-10		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-11		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-11		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-12		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-12		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-13		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-13		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-14		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-14		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-15		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-16		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-16		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	4B-BP		B-56	ISI	-	-	-	-	-	-
C5.81RHR	BP		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24B-BP-17		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-17		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-18		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-18		TEE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-2		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-2		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-3		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-4		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-5		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-6		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-6		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-7		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-7		TEE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-8		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-BP-8BC-1		B-56	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-BP-8BC-1		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

[illegible]

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24B-R-6		B-59	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-R-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	4B-R		B-59	ISI	-	-	-	-	-	-
C5.81RHR	1E11-2RHR-24B-R-6BC/ 1E11-2RHR-4B-R		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-R-7	ISI/UT/	B-59	ISI	-	-	-	-	s	-
C5.51RHR	1E11-2RHR-24B-R-7		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-1		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-1		TORUS PENETRATION TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-11		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-11		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-12		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-12		VALVE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-13		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-13		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	2RHR-4B-TS-B		B-42	ISI	-	-	-	-	-	-
C5.81RHR	4B-TS-B		TEE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-14		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-14		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-15		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24B-TS-B-16		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-16		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-2		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-2		ELBOW TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-3		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-3		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-4		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-5		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-5		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-6		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-7	ISI/UT/NMP-ES-024-502	B-42	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-8		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-8		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-B-9		B-42	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-B-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-D-1		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-1		TORUS PENETRATION TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-24B-TS-D-10		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-D-11		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-D-13		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-13		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-D-14		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-14		VALVE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	2RHR-4B-TS-D		B-39	ISI	-	-	-	-	-	-
C5.81RHR	4B-TS-D		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-D-15		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-15		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-D-16		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-16		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-D-17		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-17		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-D-2		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-2		ELBOW TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-24B-TS-D-3		B-39	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-24B-TS-D-3		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1				Period 2				Period 3			
					1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-24B-TS-D-4 1E11-2RHR-24B-TS-D-4 E11		B-39 PIPE TO ELBOW	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-24B-TS-D-5 1E11-2RHR-24B-TS-D-5 E11		B-39 ELBOW TO ELBOW	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-24B-TS-D-6 1E11-2RHR-24B-TS-D-6 E11		B-39 ELBOW TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-24B-TS-D-7 1E11-2RHR-24B-TS-D-7 E11		B-39 PIPE TO ELBOW	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-24B-TS-D-8 1E11-2RHR-24B-TS-D-8 E11		B-39 ELBOW TO ELBOW	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-24B-TS-D-9 1E11-2RHR-24B-TS-D-9 E11		B-39 ELBOW TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-6A-DS-1 1E11-2RHR-6A-DS-1 E11		B-52 PIPE TO FLANGE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-6A-RVD-1 1E11-2RHR-6A-RVD-1 E11		B-69 VALVE TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-6A-RVD-10 1E11-2RHR-6A-RVD-10 E11		B-69 PIPE TO ELBOW	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
C-F-2 C5.51RHR 2	H1 1E11-2RHR-6A-RVD-11 1E11-2RHR-6A-RVD-11 E11		B-69 ELBOW TO PIPE	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-6A-RVD-12		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-13		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-14		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-15		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-16		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-16		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-17		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-17		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-18		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-18		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-2		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-3		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-3		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-4		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-6A-RVD-5		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-6		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-7		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-8		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-RVD-9		B-69	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-RVD-9		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-SS-1		B-67	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-SS-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-SS-11A	ISI//	B-67	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-SS-11A		CAP TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-SS-12		B-67	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-SS-12		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-SS-2		B-67	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-SS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-SS-3		B-67	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-SS-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-6A-SS-4		B-67	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-SS-4		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-SS-5A		B-67	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-SS-5A		PIPE TO CAP	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-1		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-10		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-11		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-12		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-12		PIPE TO TORUS	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-2		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-3		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-4		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-4		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-5		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-6A-TSP-6		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-6		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-7		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-7		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-8		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6A-TSP-9		B-63	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6A-TSP-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-DS-1		B-62	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-DS-1		BRANCH CONNECTION TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-1		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-10		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-11		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-12		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-12		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-13		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-6B-RVD-14		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-15		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-16		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-16		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-17		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-17		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-18		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-18		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-19		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-19		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-2		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-20		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-20		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-3		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-3		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-4		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-6B-RVD-5		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-6		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-7		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-8		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-RVD-9		B-73	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-RVD-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-SS-1		B-57	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-SS-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-SS-1A		B-57	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-SS-1A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-SS-2		B-57	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-SS-2		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-SS-3A	ISI/UT/NMP-ES-024-502	B-57	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-SS-3A		PIPE TO CAP	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-SS-8A	ISI/UT/NMP-ES-024-502	B-57	ISI	s	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-SS-8A		CAP TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-6B-SS-9		B-57	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-SS-9		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-TSP-1		B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-TSP-10		B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-10		ELBOW TO TORUS	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-TSP-2		B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-TSP-3		B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-TSP-4		B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-4		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-TSP-5		B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-5		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-TSP-6		B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-TSP-7		B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-6B-TSP-8	AUG//	B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-8		ELBOW TO PIPE (Thin-Wall Augmented)	AUG	-	s	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-6B-TSP-9		B-65	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-6B-TSP-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPD-1	AUG//	B-71	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPD-1		TEE TO ELBOW (Thin-Wall Augmented)	AUG	-	-	-	-	s	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPD-2	AUG//	B-71	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPD-2		ELBOW TO PIPE	AUG	-	-	-	-	s	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPD-3		B-71	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPD-3		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPD-4		B-71	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPD-4		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPD-5		B-71	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPD-5		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-10		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-11		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-12		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-13		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-8-FPS-14		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-15		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-16		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-16		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-17		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-17		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-18		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-18		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-19		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-19		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-20		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-20		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-21		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-21		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-22		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-22		PIPE TO CAP	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-7		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-7		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-8-FPS-8		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-FPS-9		B-72	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-FPS-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-1		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-10		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-10		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-11		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-11		TEE TO REDUCER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-2		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-3		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-4		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-4		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-5		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-6		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E11-2RHR-8-HS-7		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-7		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-8		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-8		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E11-2RHR-8-HS-9		B-70	ISI	-	-	-	-	-	-
C5.51RHR	1E11-2RHR-8-HS-9		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-1		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-1		REDUCER TO FLANGE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-2		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-2		FLANGE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-3		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-3		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-1		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-10		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-11		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-12		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-12		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-10A-TL-13		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-13		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-2		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-2		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-3		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-3		VALVE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-4		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-4		ELBOW TO FLANGE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-5		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-5		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-6		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-7		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-8		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-8		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10A-TL-9		B-5	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10A-TL-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-1		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-10B-2		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-3		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-3		FLANGE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-4		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-4		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-1		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-1		TEE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-10		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-10		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-11		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-12		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-12		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-13		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-14		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-15		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-15		PIPE TO TORUS PENETRATION	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-10B-TL-2		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-2		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-3		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-3		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-4		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-4		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-6		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-6		FLANGE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-7		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-8		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-10B-TL-9		B-8	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-10B-TL-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-1		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-1		PUMP TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-10		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-10		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-11		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-11		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-12A-12		B-4	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-12		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-13		B-4	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-14		B-4	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-15		B-4	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-16		B-4	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-16		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-17		B-4	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-17		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-18	ISI/UT/NMP-ES-024-502	B-4	ISI	s	-	-	-	-	-
C5.51CS	1E21-2CS-12A-18		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-19		B-4	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-19		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-2		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-20		B-4	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-20		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-12A-21	ISI//	B-4	ISI	-	-	-	-	-	s
C5.51CS	1E21-2CS-12A-21		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-22		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-22		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-23		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-23		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-24		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-24		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-25		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-25		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-26		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-26		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-27		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-27		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-28		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-28		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-29		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-29		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-3		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-12A-30		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-30		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-31		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-31		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-32		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-32		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-33		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-33		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-34		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-34		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-35		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-35		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-36		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-36		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-37		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-37		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-38		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-38		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-39		B-6	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-39		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-12A-3BC/ 1E21-2CS-3A		B-3	ISI	-	-	-	-	-	-
C5.81CS	1E21-2CS-12A-3BC/ 1E21-2CS-3A		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-4		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-4		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-5		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-5		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-6	ISI/UT/	B-3	ISI	-	-	-	-	s	-
C5.51CS	1E21-2CS-12A-6		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-7		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-7		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-8		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12A-9		B-3	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12A-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-1		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-1		PUMP TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-10		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-10		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-11		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-12B-12		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-12		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-13		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-14		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-16		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-16		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-17		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-17		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-18		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-18		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-19		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-19		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-2		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-20		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-20		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-21		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-21		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-12B-22	ISI/UT/	B-9	ISI	-	-	-	-	-	s
C5.51CS	1E21-2CS-12B-22		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-23		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-23		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-24		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-24		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-25		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-25		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-26		B-9	ISI	-	-	-	-	-	s
C5.51CS	1E21-2CS-12B-26		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-27		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-27		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-27A		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-27A		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-28		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-28		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-29	ISI/UT/	B-9	ISI	-	-	-	-	-	s
C5.51CS	1E21-2CS-12B-29		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-3		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-12B-30		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-30		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-31		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-31		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-32		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-32		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-33		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-33		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-34		B-9	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-34		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-3BC/ 1E21-2CS-3B		B-7	ISI	-	-	-	-	-	-
C5.81CS	1E21-2CS-12B-3BC/ 1E21-2CS-3B		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-4		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-4		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-5		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-5		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-6		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-7	ISI//	B-7	ISI	-	s	-	-	-	-
C5.51CS	1E21-2CS-12B-7		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-12B-8		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-8		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-12B-9		B-7	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-12B-9		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-14A-CTS-1		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-14A-CTS-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-14A-CTS-2		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-14A-CTS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-14A-CTS-3		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-14A-CTS-3		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-14A-TS-1	ISI//	B-2	ISI	-	s	-	-	-	-
C5.51CS	1E21-2CS-14A-TS-1		REDUCER TO NOZZLE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-14B-CTS-1		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-14B-CTS-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-14B-CTS-2		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-14B-CTS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-14B-CTS-3		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-14B-CTS-3		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-14B-TS-1		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-14B-TS-1		REDUCER TO NOZZLE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-16A-TS-10		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-11		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-12		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-12		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-13		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-14		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-15		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-15		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-16		B-2	ISI	-	-	-	s	-	-
C5.51CS	1E21-2CS-16A-TS-16		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-17		B-2	ISI	-	-	-	s	-	-
C5.51CS	1E21-2CS-16A-TS-17		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-18		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-18		TEE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-19		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-19		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-16A-TS-2	ISI//	B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-20		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-20		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-21		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-21		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-22		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-22		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-23		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-23		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-3		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-3		ELBOW TO FLANGE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-4		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-4		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-5		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-6		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-6		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-7		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-16A-TS-8		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16A-TS-9		B-2	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16A-TS-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-10		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-12		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-13		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-14		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-14		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-15		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-15		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-16		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-16		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-17		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-17		TEE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-18		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-18		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-16B-TS-19		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-19		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-2		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-20		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-20		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-21		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-21		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-22		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-22		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-3		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-3		ELBOW TO FLANGE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-4		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-4		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-5		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-6		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-6		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-7	ISI/UT/	B-1	ISI	-	-	-	-	s	-
C5.51CS	1E21-2CS-16B-TS-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E21-2CS-16B-TS-8		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E21-2CS-16B-TS-9		B-1	ISI	-	-	-	-	-	-
C5.51CS	1E21-2CS-16B-TS-9		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-R-1		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-R-1		PUMP TO REDUCER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-1		B-21	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-1		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-10		B-22	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-11		B-22	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-12		B-22	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-12		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-13		B-22	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-13		TEE TO REDUCER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-14		B-18	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-14		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-15		B-18	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-10-SS-16		B-18	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-16		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-17		B-18	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-17		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-18		B-18	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-18		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-19		B-18	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-19		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-2	ISI//	B-21	ISI	-	s	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-2		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-21		B-19	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-21		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-22		B-19	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-22		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-23		B-19	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-23		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-24		B-19	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-24		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-25		B-19	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-25		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-10-SS-26		B-19	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-26		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-27		B-19	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-27		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-28		B-19	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-28		PIPE TO CAP	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-29R	ISI/UT/NMP-ES-024-502	B-20	ISI	s	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-29R		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-3		B-21	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-3		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-30B		B-20	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-30B		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-31		B-20	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-31		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-32		B-20	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-32		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-33		B-20	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-33		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-34		B-20	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-34		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-10-SS-35		B-20	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-35		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-35A		B-20	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-35A		TEE TO CAP	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-36		B-20	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-36		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-37	ISI/UT/NMP-ES-024-502	B-20	ISI	s	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-37		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-4		B-21	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-4		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-5		B-21	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-6		B-21	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-7		B-21	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-7		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-8		B-22	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-8		TEE TO REDUCER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-10-SS-9		B-22	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-10-SS-9		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-14-PS-3		B-87	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-PS-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-PS-4		B-87	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-PS-4		ELBOW TO PUMP	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-10	ISI/UT/	B-10	ISI	-	-	-	-	-	s
C5.51HPCI	1E41-2HPCI-14-R-10		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-11		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-11		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-12		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-12		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-13		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-13		VALVE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-14		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-15		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-15		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-16		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-16		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-17		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-17		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-14-R-18		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-18		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-19		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-19		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-2		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-2		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-20		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-20		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-21		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-21		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-23		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-23		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-24		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-24		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-25		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-25		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-26		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-26		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-27		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-27		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-14-R-28		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-28		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-29		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-29		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	MFL		B-10	ISI	-	-	-	-	-	-
C5.81HPCI	1E41-2HPCI-14-R-2BC/ 1E41-2HPCI-4-MFL		PIPE TO BRANCH	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-3		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-30		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-30		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-31		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-31		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-32		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-32		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-33	ISI/UT/	B-11	ISI	-	-	-	-	s	-
C5.51HPCI	1E41-2HPCI-14-R-33		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-34		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-34		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-35		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-35		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-14-R-36		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-36		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-37		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-37		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-38		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-38		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-39		B-11	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-39		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-4		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-6		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-7	ISI//	B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-8		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-8		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-14-R-9		B-10	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-14-R-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-1		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-1		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-16-CS-10		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-10		VALVE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-11		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-11BC		B-13A	ISI	-	-	-	-	-	-
C5.81HPCI	1E41-2HPCI-16-CS-11BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-12		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-12		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-1A		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-1A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-2		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-3		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-4		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-4A		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-4A		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-5		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-16-CS-6		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-7		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-8		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-8A		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-8A		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-CS-9		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-CS-9		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-PS-1		B-87	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-PS-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-PS-2		B-87	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-PS-2		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-PS-3		B-87	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-PS-3		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-PS-4	ISI/UT/	B-87	ISI	-	-	-	-	s	-
C5.51HPCI	1E41-2HPCI-16-PS-4		PIPE TO RDCR	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-RD-1		B-17	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-RD-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-16-RD-2		B-17	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-RD-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-RD-3	ISI/UT/NMP-ES-024-502	B-17	ISI	s	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-RD-3		ELBOW TO FLANGE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-10		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-10		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-11		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-11		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-12		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-12		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-13		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-13		VALVE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-14		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-14		TEE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-2		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-3		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-3		ELBOW TO FLANGE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-4		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-4		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-16-TS-5		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-6		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-7		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-8		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-8		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-16-TS-9		B-13	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-16-TS-9		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-18-TD-1		B-14	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-18-TD-1		FLANGE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-18-TD-2		B-14	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-18-TD-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-18-TD-3		B-14	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-18-TD-3		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-18-TD-4		B-14	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-18-TD-4		CAP TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-18-TD-5		B-14	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-18-TD-5		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-18-TD-6		B-14	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-18-TD-6		TEE TO REDUCER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-18-TD-7	ISI//	B-16	ISI	-	s	-	-	-	-
C5.51HPCI	1E41-2HPCI-18-TD-7		REDUCER TO REDUCER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-1		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-10		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-11		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-12		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-12		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-13		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-13		TEE TO VALVE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-14		B-16	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-14		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-15	ISI//	B-16	ISI	-	-	-	-	-	s
C5.51HPCI	1E41-2HPCI-20-TD-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-16		B-16	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-16		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-20-TD-2		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-2		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-3		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-4		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-5		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-6		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-8	ISI//	B-15	ISI	-	s	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-20-TD-9		B-15	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-20-TD-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-24-TD-1		B-16	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-24-TD-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-24-TD-2		B-16	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-24-TD-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E41-2HPCI-24-TD-3	ISI/UT/	B-16	ISI	-	-	-	-	s	-
C5.51HPCI	1E41-2HPCI-24-TD-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E41-2HPCI-6-CS-1		B-13A	ISI	-	-	-	-	-	-
C5.51HPCI	1E41-2HPCI-6-CS-1		PIPE TO TEE	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-10-TD-23		B-25	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-10-TD-23		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-10-TD-24		B-25	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-10-TD-24		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-10-TD-25		B-25	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-10-TD-25		VALVE TO ELBOW	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-10-TD-26		B-25	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-10-TD-26		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-10-TD-27		B-25	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-10-TD-27		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-6-TS-2		B-89	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-6-TS-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-6-TS-3		B-89	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-6-TS-3		ELBOW TO VALVE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-6-TS-4		B-89	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-6-TS-4		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-6-TS-5		B-89	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-6-TS-5		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1E51-2RCIC-6-TS-6		B-89	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-6-TS-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-6-TS-7		B-89	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-6-TS-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-6-TS-8		B-89	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-6-TS-8		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-6-TS-9		B-89	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-6-TS-9		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1E51-2RCIC-8-TD-1		B-25	ISI	-	-	-	-	-	-
C5.51RCIC	1E51-2RCIC-8-TD-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1G51-2TDP-8-D-1		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-1		TORUS PENETRATION TO PIPE	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1G51-2TDP-8-D-10		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-10		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1G51-2TDP-8-D-2		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1G51-2TDP-8-D-3		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-3		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1G51-2TDP-8-D-4		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1G51-2TDP-8-D-5		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1G51-2TDP-8-D-6		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-6		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1G51-2TDP-8-D-7		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-7		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1G51-2TDP-8-D-8		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-8		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1G51-2TDP-8-D-9		B-82	ISI	-	-	-	-	-	-
C5.51TDP	1G51-2TDP-8-D-9		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	G51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-10B-SSR-1		B-78	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-10B-SSR-1		REDUCER TO VALVE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-10C-SSR-3		B-79	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-10C-SSR-3		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-10C-SSR-3A		B-79	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-10C-SSR-3A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-14B-SSR-1		B-78	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-14B-SSR-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-14B-SSR-2		B-78	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-14B-SSR-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N11-2MSA-14B-SSR-3		B-78	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-14B-SSR-3		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-14B-SSR-4		B-78	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-14B-SSR-4		TEE TO VALVE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-14C-SSR-1		B-79	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-14C-SSR-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-14C-SSR-2		B-79	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-14C-SSR-2		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-1		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-10		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-11		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-11		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-12		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-12		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-13		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-14		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N11-2MSA-24A-15		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-15		PIPE TO TEE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-16		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-16		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-17		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-17		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-2	ISI/UT/	B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-3		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-4		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-5		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-6		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-7		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24A-8		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-8		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N11-2MSA-24A-9		B-74	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24A-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-1		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-10		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-11		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-12		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-12		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-13		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-13		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-14		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-15		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-16		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-16		PIPE TO TEE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-17		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-17		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N11-2MSA-24B-18		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-18		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-2		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-3		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-4		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-5		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-5A		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-5A		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-6		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-7		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-8		B-75	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24B-8		PIPE TO TEE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24B-9	ISI/UT/	B-75	ISI	-	-	-	-	s	-
C5.51MS	1N11-2MSA-24B-9		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N11-2MSA-24C-1		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-10		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-10		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-11		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-11		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-12		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-12		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-12A		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-12A		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-13		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-14		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-15		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-15		PIPE TO TEE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-16		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-16		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-16BC	ISI/MT/NMP-ES-024-401	B-76	ISI	s	-	-	-	-	-
C5.81MS	1N11-2MSA-24C-16BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N11-2MSA-24C-17		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-17		PIPE TO TEE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-18		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-18		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-19		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-19		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-2		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-3		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-4		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-5		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-6		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-7		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24C-8		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N11-2MSA-24C-9		B-76	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24C-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-1		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-1		VALVE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-10		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-10		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-11		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-11		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-11A		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-11A		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-12		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-13		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-13BC		B-77	ISI	-	-	-	-	-	-
C5.81MS	1N11-2MSA-24D-13BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-14		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-14		PIPE TO TEE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-15		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-15		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N11-2MSA-24D-16		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-16		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-2		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-3		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-4		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-5		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-6		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-7		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-8		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-24D-9		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-24D-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-6-SJAE-1		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-6-SJAE-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, Item NO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N11-2MSA-6-SJAE-1A	ISI//	B-77	ISI	-	s	-	-	-	-
C5.51MS	1N11-2MSA-6-SJAE-1A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-6-SJAE-2		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-6-SJAE-2		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-6-SJAE-3		B-77	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-6-SJAE-3		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-6-SS-1		B-79	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-6-SS-1		BRANCH CONNECTION TO PIPE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSA-6-SS-2		B-79	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSA-6-SS-2		ELBOW TO REDUCER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N11-2MSAR-10C-SSR-4		B-79	ISI	-	-	-	-	-	-
C5.51MS	1N11-2MSAR-10C-SSR-4		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-1		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-10		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-11		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-12		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N37-2TSB-16A-13		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-14		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-14		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-2		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-3		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-4		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-5		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-6		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-7		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-8		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16A-9		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16A-9		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N37-2TSB-16AA-1		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AA-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AA-2		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AA-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AA-3		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AA-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AA-3BC		B-80	ISI	-	-	-	-	-	-
C5.81TSP	1N37-2TSB-16AA-3BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AA-4		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AA-4		PIPE TO TEE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AB-1		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AB-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AB-2		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AB-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AB-3		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AB-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AB-3BC		B-80	ISI	-	-	-	-	-	-
C5.81TSB	1N37-2TSB-16AB-3BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AB-4		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AB-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N37-2TSB-16AB-5		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AB-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16AB-6		B-80	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16AB-6		PIPE TO TEE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16B-1		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16B-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16B-10	ISI/UT/	B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16B-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16B-11		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16B-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16B-12		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16B-12		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16B-13		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16B-13		PIPE TO VALVE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16B-2		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16B-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16B-3		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16B-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16B-4		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16B-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1N37-2TSB-16BD-1		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16BD-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16BD-2	ISI//	B-81	ISI	-	s	-	-	-	-
C5.51TSP	1N37-2TSB-16BD-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16BD-3		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16BD-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16BD-3BC		B-81	ISI	-	-	-	-	-	-
C5.81TSB	1N37-2TSB-16BD-3BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16BD-4		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16BD-4		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16BD-5		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16BD-5		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16BD-6		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16BD-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1N37-2TSB-16BD-7		B-81	ISI	-	-	-	-	-	-
C5.51TSP	1N37-2TSB-16BD-7		PIPE TO TEE	AUG	-	-	-	-	-	-
2	N37			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PID-1		B-27	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PID-1		FLANGE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PID-2	ISI/UT/NMP-ES-024-502	B-27	ISI	s	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PID-2		ELBOW TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1T48-2CPI-18-PID-3		B-27	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PID-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PID-3BC-1		B-27	ISI	-	-	-	-	-	-
C5.81CPI	1T48-2CPI-18-PID-3BC-1		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PID-4		B-27	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PID-4		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PID-5		B-27	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PID-5		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PID-6		B-27	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PID-6		PIPE TO PENETRATION	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PIT-1		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PIT-1		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PIT-1BC-1		B-26	ISI	-	-	-	-	-	-
C5.81CPI	1T48-2CPI-18-PIT-1BC-1		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PIT-2		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PIT-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PIT-3		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PIT-3		FLANGE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-PIT-4		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-PIT-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1T48-2CPI-18-POT-1		B-28	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-POT-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-POT-2		B-28	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-POT-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-POT-3		B-28	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-POT-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-POT-4		B-28	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-POT-4		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-POT-5		B-28	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-POT-5		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-18-POT-6		B-28	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-18-POT-6		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20A-VB-1	ISI//	B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20A-VB-1		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20A-VB-2		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20A-VB-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20A-VB-3		B-28	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20A-VB-3		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20A-VB-4		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20A-VB-4		PIPE TO TEE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1T48-2CPI-20B-VB-1		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20B-VB-1		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20B-VB-2		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20B-VB-2		PIPE TO FLANGE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20B-VB-3		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20B-VB-3		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20B-VB-4	ISI//	B-26	ISI	-	s	-	-	-	-
C5.51CPI	1T48-2CPI-20B-VB-4		PIPE TO TEE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20-PIT-1		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20-PIT-1		REDUCER TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20-PIT-2		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20-PIT-2		ELBOW TO TEE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20-PIT-3		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20-PIT-3		TEE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20-PIT-4		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20-PIT-4		PIPE TO TEE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20-PIT-5		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20-PIT-5		TEE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20-PIT-6		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20-PIT-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1T48-2CPI-20-PIT-7		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20-PIT-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20-PIT-8	ISI/UT/	B-26	ISI	-	-	-	-	s	-
C5.51CPI	1T48-2CPI-20-PIT-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20-PIT-8A		B-26	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20-PIT-8A		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-20-POT-2		B-28	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-20-POT-2		PIPE TO REDUCER	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-1		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-1		FLANGE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-10		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-11		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-12		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-12		ELBOW TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-2		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-2		PIPE TO TEE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-3		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-3		TEE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-F-2	H1 1T48-2CPI-6-SVD-4		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-5		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-6		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-6		PIPE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-7		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-8		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVD-9		B-30	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVD-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVT-1		B-31	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVT-1		TEE TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVT-2		B-31	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVT-2		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVT-3		B-31	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVT-3		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVT-4		B-31	ISI	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVT-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1				Period 2				Period 3			
					1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
C-F-2	H1 1T48-2CPI-6-SVT-5		B-31	ISI	-	-	-	-	-	-	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVT-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVT-6		B-31	ISI	-	-	-	-	-	-	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVT-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
C-F-2	H1 1T48-2CPI-6-SVT-7		B-31	ISI	-	-	-	-	-	-	-	-	-	-	-	-
C5.51CPI	1T48-2CPI-6-SVT-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 3 COMPONENTS

Scope

The only Class 3 ISI examinations required by IWD are the examination of integrally welded attachments (of supports and restraints) to the pressure boundary of Class 3 piping and components. Class 3 piping and equipment are defined on the HNP-1 Boundary Diagrams listed below:

HB-11001	Plant Service Water
HB-11024	Plant Service Water
HB-11600	Plant Service Water
HB-11609	Plant Service Water
HB-11601	Plant Service Water
HB-11631	Plant Service Water
HB-11638	Plant Service Water
HB-16011	Plant Service Water (Class 3 portion))
HB-11004	RHR Service Water
HB-16016	Condensate Transfer (HPCI and RCIC Pump Suction)
HB-16062	Main Steam Relief Valve Lines
HB-16002	Fuel Pool Cooling

Per HB-16002, the piping from RHR to the Spent Fuel Pool is Class 0 after the spectacle flanges. However, cooling water must be supplied to the pool. Therefore, per HB-16002 (Note 5) there is an NRC commitment to maintain a certain portion of fuel pool cooling piping as Class 3. Per HB-16011 this is the piping that functions as the fuel pool makeup source from the Plant Service Water system. It includes the piping from between 1P41-F070A and 1P41-F070B through valve 1P41-F103 to the makeup diffuser in the spent fuel pool.

For the 4th Interval, examinations are performed in accordance with IWD-1000 of the 2001 Edition of Section XI with Addenda through 2003. Therefore, the examination scope shall apply to Class 3 systems piping and equipment that support the following safety functions:

1. Reactor shutdown
2. Emergency core cooling
3. Containment heat removal
4. Atmosphere cleanup
5. Reactor residual heat removal.
6. Spent fuel pool residual heat removal.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 3 COMPONENTS

Exemptions

Per IWD-1220 not all of the integrally welded attachments are subject to examination – some are exempt from the examination requirements. These are:

- Integral attachments of supports and restraints on piping that are NPS 4 and smaller.
- Integral attachments of supports and restraints on vessels, pump, and valves and their connections in piping NPS 4 and smaller.
- Integral attachments located on components in systems (or portions of systems) whose function is not required in support of reactor residual heat removal, containment heat removal, and emergency core cooling and that operate at a pressure equal to or less than 275 psig and at a temperature equal to or less than 200°F.
- Integral attachments that are inaccessible due to being encased in concrete, buried underground, located inside a penetration, or encapsulated by guard pipe.

Plant Service Water (PSW) Evaluation

Equipment required to be cooled during emergency conditions by PSW includes:

1. **HB-11001** describes the *Class 3 intake structure Division I and Division II Supply Piping*. This is the source of all safety-related PSW water to the essential components and thus must be included. The Class 3 piping is in the examination scope for welded attachments except for 4" and under piping. PSW pump 1P41-C001C and 1P41-C001A with the associated non-exempt lines are shown on Isometric Sketches C-8 and C-11. PSW pump 1P41-C001B and 1P41-C001D with the associated non-exempt lines are shown on Isometric Sketches C-10 and C-9 (including the 30" Dilution Line to the end of scope at the anchor past 1P41-F312). Figure C-8A provides details for the strainers.
2. **HB-11004** shows **Pump Motor Cooling** water from PSW (See HB-11001 above). These lines are under 4" in size; therefore, there are no PSW welded attachment examination scope on this drawing. Therefore, welded attachments shown on C-12, C-13, C-14, C-15, C-16 are exempt.
3. **HB-11024** shows the **Division 1 and Division II Reactor Building PSW Supply** splitting off from the 30" Supply Line to the Turbine Building (from HB-11600). It is underground piping (shown on drawing H-11139) and not included in the scope of welded attachment examinations until it enters the Reactor Building (See HB-16011). There are no associated isometric sketches for this drawing.
4. **HB-16011** shows the 8" Division I and 6" Division II Reactor Building Service Water System. The Division I and II lines are discussed below for inclusion in the examination scope.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 3 COMPONENTS

- Isometric sketch C-36 shows the 8" piping where it enters the Reactor Building at valve 1P41-F067. The welded attachments on these sketches are in the examination scope because these lines provide required cooling water to Emergency Makeup Water to the Fuel Pool, RHR & Core Spray Pump Room Coolers, and RCIC Pump Room Coolers and the pressure temperature exemption cannot be used. (Division I)
- There is a 6" line from C-36 to C-37, C-37A, and C-38 which provides **Emergency Makeup Water to the Fuel Pool**. Therefore, the pressure/temperature exemption cannot be used on these lines. There is a portion of 6" piping from C-22 to valve 1P41-F-052A on C-36 that provides a normally locked crosstie between the two divisions. This piping is the examination scope. There is also an 8" line to C-39 described below. (Division I)
- The 8" piping on C-39 provides a header for small diameter **RHR & Core Spray Pump Room Coolers** which are exempt on size. Therefore, the pressure/temperature exemption cannot be used on these lines; however, the small diameter **RHR & Core Spray Pump Room Cooler** lines are exempt (C-40 and C-41). (Division I)
- C-39 transitions into C-73 which like C-39 provides cooling water to the small diameter **RCIC Pump Room Coolers** and **Reactor Recirc Pump MG Set Coolers**. Therefore, the pressure/temperature exemption cannot be used on these lines; however, the small diameter **RCIC Pump Room Cooler** lines are exempt. Cooling is maintained through the small diameter **Reactor Recirc Pump MG Set Coolers** but is not required per Page 10.7-7 of the FSAR. C-73 terminates at Containment Isolation valve 1P41-F049 where the system becomes Class 2 inside containment (see Class 2 drawing B-104). (Division I)
- Isometric sketch C-21 shows the 6" piping where it enters the Reactor Building at valve 1P41-F066. C-21 transitions into C-22 and the welded attachments on these sketches are in the examination scope until the 6" X 4" reducer on C-22 where they become exempt on size. **RHR Pump Seal Coolers, RHR/Core Spray Pump Room Coolers, and HPCI Pump Room Coolers** are thus exempt on size; therefore, welded attachments shown on C-23, C-24 and C-25 are exempt. (Division II)
- There is a portion of 6" piping from C-22 to valve 1P41-F-052A on C-36 that provides a normally locked crosstie between the two divisions. This piping is the examination scope. (Division II)

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 3 COMPONENTS

The return lines are discussed below for inclusion in the examination scope.

- C-120 begins at the discharge of 1P41-F050 (See Class 2, B-102). The return lines from Division I and II (C-120 and C-121) combine into an 8" header on C-120 and terminates when the class becomes Class 0.
- 5. All ***Turbine Building Supply Piping*** downstream of 1P41-F310D (Division II) and 1P41-F310C (Division I) located in outside valve boxes is exempt on pressure and temperature because there is not a safety-related cooling unit.
- 6. The ***Diesel Generators*** units are shown on HB-11600. Water to these components are supplied from Division I and II supplies (originating on HB-11001) and enter from underground piping through the Diesel Generator Building floor on Figure C-19 in two locations. One 8" supply line on Figure C-19 connects to C-17 for the supply piping for DG "1A" and the Unit 1 portion of the supply to DG "1B" which also receives cooling water from Unit 2 (Figure C-37). The other 8" supply line on C-19 goes to C-18 as the DG "1C" supply. Return piping for DG "1A" and DG "1C" are shown on C-20. (The return piping for DG "1B" is on the Unit 2 figures). All welded attachments are in the examination scope except for the small diameter instrument lines, drain lines, etc.
- 7. The ***Control Room Air Conditioning units*** are shown on HB-11609. All lines are 4"; therefore, all integral attachments on HB-11609 are exempt on size. The 2" supply for the Control Room Air Conditioning originates at Coordinate F-3 on HB-16011 and is exempt on size.

RHR Service Water Evaluation

1. **HB-11004** describes the ***Class 3 intake structure Division I and Division II Supply Piping***. This is the source of all safety-related RHRSW water to the essential components and thus must be included. The Class 3 piping is in the examination scope for welded attachments except for 4" and under piping. RHRSW pump 1E11-C001B and 1E11-C001D with the associated non-exempt lines are shown on Isometric Sketch C-1 and C-2. RHRSW pump 1E11-C001A and 1E11-C001D with the associated non-exempt lines are shown on Isometric Sketch C-3 and C-4. (At this point the piping goes underground)>
2. **HB-16329** describes the Division II supply from the underground Reactor Building penetration to RHR Heat Exchanger B on Isometric Sketch C-5 and the return to the Reactor Building penetration on Isometric Sketch C-7. The RHRSW pipe entering and leaving the Reactor building is underground and outside the scope of these examinations.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 3 COMPONENTS

3. **HB-16330** describes the Division I supply from the underground Reactor Building penetration to RHR Heat Exchanger B on Isometric Sketch C-6 and the return to the Reactor Building penetration on Isometric Sketch C-7. The RHRSW pipe entering and leaving the Reactor building is underground and outside the scope of these examinations.

Main Steam Relief Piping Evaluation

Isometric Sketches C-78 through C-94 show the scope of the Class 3 portion of the Main Steam Relief valve piping (supports reactor shutdown). Because of the temperature at which they operate, the pressure and temperature exemption cannot be used. All piping is greater than 4" in diameter thus all welded attachments are in the examination scope.

Fuel Pool Makeup Water

For HNP-1 the Fuel Pool Cooling and Cleanup System is out of the ISI scope (designated as Class 0 on the Boundary Diagram). Instead, an Emergency Makeup source is maintained through the Plant Service Water system.

EXAMINATION

Those integrally welded attachments that meet the following three criteria are subject to examination requirements.

1. The integrally welded attachments are located in systems (or portions of systems) that are shown on the referenced Boundary Diagrams, and
2. the system or portions of systems perform the listed safety functions, and
3. they are not exempt.

Each Category D-A Item is discussed below.

Item D1.10 – Pressure Vessels

None Identified.

Item D1.20 – Piping

As shown in Schedule Works, Hatch 1 has 136 sets of Class 3 welded attachments. Footnote 3 requires a 10% sample; therefore, 14 sets of welded attachments require examination. The cumulative examination percentages meet the requirements of Code Case N-598.

**HATCH UNIT 1 FOURTH INTERVAL ISI PLAN
CLASS 3 COMPONENTS**

Additionally, examination of an integrally welded attachment is required if the associated component support member has deformation identified during operation, refueling, maintenance, examination, inservice inspection, or testing. An example of component support deformation is broken parts, bent parts, or pulled out parts.

Item D1.30 (Pumps) and D1.40 (Valves)

None Identified.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN CLASS 3 COMPONENTS

ISI PLAN TABLES

Beginning in 2005, ISI Plan Tables are generated by the industry standard ScheduleWorks ISI software. The following tables were generated using a standard format provided by ScheduleWorks. It should be noted that the Scope/Method/Procedure field is for *information only*. This information may be changed during an outage by IDDEAL users at the site, but it will not be reflected in the ISI Plan until the plan is issued after the outage. When using these tables the user needs to understand the following symbols:

Scheduled	"s"	To schedule a component, place the identifier "s" in the required period/outage.
Completed	"c"	Upon exam completion for a scheduled component and by uploading the outage scope from IDDEAL back to ScheduleWorks, an "s" will be updated to completed "c".
Re-scheduled	"r"	Once a component has been scheduled, and you wish to reschedule to another outage, replace the scheduled "s" with a rescheduled "r" and enter an "s" in the new outage schedule.
Expanded Scope	"e"	To increase a work scope without taking code credit in the percentage calculations, enter an expanded "e".
Expanded Scope Completed	"E"	Upon exam completion of an expanded scope and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "E" the exam scope is completed.
Additional Scheduled	"a"	After an initial expanded work scope has been identified and you wish to add an increased expanded work scope, enter an additional expanded scope "a".
Additional Completed	"A"	Upon exam completion of an additional expanded scope and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "A" the exam scope is completed.
Partial	"p"	To track partially completed component examination requirements enter a partial "p".
Deferred	"d"	Once a component has been scheduled, and you wish to defer the inspection to another Outage, or Period, replace the scheduled "s" with a deferred "d" and enter an "s" in the new Outage.
Limited	"l"	To track limited component examinations or limited completions of requirements enter "l".
Multiple Scheduled	"b"	For multiple scheduling of the same component in successive Outages or Periods within an Interval enter "b".
Multiple Completed	"B"	Upon exam completion of a multiple scope in the same Interval and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "B" the exam scope is completed. This multiple scheduling scope will not count as completed for code calculations.
Tickler	"t"	To track exam scopes or use as reminder or identifier to confirm scheduling enter "t".
Successive Exams	"h"	Successive examinations.
Successive Exams Completed	"H"	Upon exam completion of a successive scope and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "H" the exam scope is completed.

Southern Nuclear Operating Company
Code Compliance Scheduling Summary - 4th Interval

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ISI - Code Edition - 2003 Addenda

CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
D-A	D1.20		136	10%	13.6	14	14	4	29.41%	29%	5	66.18%	65%	5	102.94%	100%
Total:			136		14	14	14	4	28.50%	29%	5	64.20%	65%	5	100%	100%

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1B21-H812 ATT		C-79	ISI	-	-	-	-	-	-
D1.20	1B21-H812 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-H814 ATT		C-90	ISI	-	-	-	-	-	-
D1.20	1B21-H814 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-H816 ATT		C-78	ISI	-	-	-	-	-	-
D1.20	1B21-H816 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-H818 ATT		C-89	ISI	-	-	-	-	-	-
D1.20	1B21-H818 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-H822 ATT		C-81	ISI	-	-	-	-	-	-
D1.20	1B21-H822 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-MVVH-3 ATT	ISI//	C-80	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-3 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-MVVH-32 ATT		C-91	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-32 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-MVVH-33 ATT		C-91	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-33 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-MVVH-34 ATT		C-91	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-34 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-MVVH-35 ATT		C-92	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-35 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1B21-MVVH-36 ATT		C-92	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-36 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-MVVH-37 ATT		C-92	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-37 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-MVVH-701 ATT		C-80	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-701 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-MVVH-8 ATT		C-85	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-8 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-MVVH-9 ATT		C-87	ISI	-	-	-	-	-	-
D1.20	1B21-MVVH-9 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-R3 ATT		C-78,-89	ISI	-	-	-	-	-	-
D1.20	1B21-R3 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-R7 ATT		C-80	ISI	-	-	-	-	-	-
D1.20	1B21-R7 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-R8 ATT	ISI//	C-81	ISI	-	-	-	-	-	s
D1.20	1B21-R8 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS- 3 ATT		C-90,-79	ISI	-	-	-	-	-	-
D1.20	1B21-SS- 3 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS- 4 ATT		C-79	ISI	-	-	-	-	-	-
D1.20	1B21-SS- 4 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1B21-SS- 5 ATT		C-89,-78	ISI	-	-	-	-	-	-
D1.20	1B21-SS- 5 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS- 9 ATT		C-81	ISI	-	-	-	-	-	-
D1.20	1B21-SS- 9 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS-10 ATT		C-81	ISI	-	-	-	-	-	-
D1.20	1B21-SS-10 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS-12 ATT		C-80	ISI	-	-	-	-	-	-
D1.20	1B21-SS-12 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS-13 ATT		C-80	ISI	-	-	-	-	-	-
D1.20	1B21-SS-13 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS-15 ATT	ISI//	C-83	ISI	-	s	-	-	-	-
D1.20	1B21-SS-15 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS-16 ATT		C-83	ISI	-	-	-	-	-	-
D1.20	1B21-SS-16 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS-26 ATT		C-85	ISI	-	-	-	-	-	-
D1.20	1B21-SS-26 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS-28 ATT		C-85	ISI	-	-	-	-	-	-
D1.20	1B21-SS-28 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1B21-SS-29 ATT		C-87	ISI	-	-	-	-	-	-
D1.20	1B21-SS-29 ATT		Lugs	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1E11-ISH- 3 ATT		C-3	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 3 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 4 ATT		C-1	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 4 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 5 ATT	ISI//	C-1	ISI	-	s	-	-	-	-
D1.20	1E11-ISH- 5 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 6 ATT		C-1	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 6 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 7 ATT		C-1	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 7 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 8 ATT		C-2	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 8 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 13 ATT		C-2	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 13 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 15 ATT		C-3	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 15 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 17 ATT		C-4	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 17 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 56 ATT		C-4	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 56 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1E11-ISH- 59 ATT		C-1	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 59 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 84 ATT		C-2	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 84 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH- 85 ATT		C-4	ISI	-	-	-	-	-	-
D1.20	1E11-ISH- 85 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH-702 ATT	ISI//	C-4	ISI	-	-	-	-	s	-
D1.20	1E11-ISH-702 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH-703 ATT		C-4	ISI	-	-	-	-	-	-
D1.20	1E11-ISH-703 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-ISH-704 ATT		C-4	ISI	-	-	-	-	-	-
D1.20	1E11-ISH-704 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH- 59 ATT		C-5	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH- 59 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH- 65 ATT		C-6	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH- 65 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH- 94 ATT		C-5	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH- 94 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH- 95 ATT		C-5	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH- 95 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1E11-RHRH-103 ATT	ISI//	C-6	ISI	-	-	-	-	s	-
D1.20	1E11-RHRH-103 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-108 ATT		C-6	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-108 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-110 ATT	ISI//	C-7	ISI	-	-	-	-	s	-
D1.20	1E11-RHRH-110 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-281 ATT		C-5	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-281 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-282 ATT		C-5	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-282 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-283 ATT		C-5	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-283 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-285 ATT		C-5	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-285 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-286 ATT		C-5	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-286 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-291 ATT		C-7	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-291 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-292 ATT		C-7	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-292 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1E11-RHRH-298 ATT		C-7	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-298 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-299 ATT		C-7	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-299 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-301 ATT		C-7	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-301 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-302 ATT		C-7	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-302 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-303 ATT		C-7	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-303 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-343 ATT		C-6	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-343 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-344 ATT		C-6	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-344 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-345 ATT		C-6	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-345 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E11-RHRH-410 ATT		C-5	ISI	-	-	-	-	-	-
D1.20	1E11-RHRH-410 ATT		Lugs	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E51-2RCIC-6-CST-14PL-1 THRU 8		C-94A	ISI	-	-	-	-	-	-
D1.20	1E51-2RCIC-6-CST-14PL-1 THRU 8		E51-RCIC-H9	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1E51-2RCIC-6-CST-22PS-1		C-94A	ISI	-	-	-	-	-	-
D1.20	1E51-2RCIC-6-CST-22PS-1		E51-RCIC-H801	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1E51-2RCIC-6-CST-PS-1		C-94B	ISI	-	-	-	-	-	-
D1.20	1E51-2RCIC-6-CST-PS-1		E51-RCIC-H802	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-26 ATT		C-8	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-26 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-27 ATT		C-10	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-27 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-28 ATT		C-10	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-28 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-29 ATT		C-9	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-29 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-30 ATT		C-9	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-30 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-31 ATT	ISI//	C-11	ISI	-	-	-	s	-	-
D1.20	1P41-ISH-31 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-33 ATT		C-8	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-33 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-34 ATT		C-11	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-34 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1P41-ISH-48 ATT		C-11	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-48 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-49 ATT		C-9	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-49 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-67 ATT		C-10	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-67 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-68 ATT	ISI//	C-10	ISI	-	-	-	-	-	s
D1.20	1P41-ISH-68 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-69 ATT		C-8	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-69 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-70 ATT		C-8	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-70 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-ISH-71 ATT		C-10	ISI	-	-	-	-	-	-
D1.20	1P41-ISH-71 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH- 4 ATT		C-18	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH- 4 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH- 7 ATT	ISI//	C-18	ISI	-	-	-	-	s	-
D1.20	1P41-SDGH- 7 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-17 ATT		C-17	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-17 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1P41-SDGH-18 ATT	ISI//	C-17	ISI	-	s	-	-	-	-
D1.20	1P41-SDGH-18 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-19 ATT		C-17	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-19 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-31 ATT		C-20	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-31 ATT			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-41 ATT		C-20	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-41 ATT			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-49 ATT		C-17	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-49 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-50 ATT		C-17	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-50 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-51 ATT		C-19	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-51 ATT		Anchor at Floor	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-700 ATT		C-20	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-700 ATT			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-701 ATT		C-20	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-701 ATT			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SDGH-800 ATT		C-18	ISI	-	-	-	-	-	-
D1.20	1P41-SDGH-800 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
D-A	H1 1P41-SWH-181 ATT		C-36	ISI	-	-	-	-	-	-
D1.20	1P41-SWH-181 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SWH-184 ATT		C-38	ISI	-	-	-	-	-	-
D1.20	1P41-SWH-184 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SWH-185 ATT		C-38	ISI	-	-	-	-	-	-
D1.20	1P41-SWH-185 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SWH-190 ATT	ISI//	C-37A	ISI	-	-	-	-	s	-
D1.20	1P41-SWH-190 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SWH-191 ATT		C-37A	ISI	-	-	-	-	-	-
D1.20	1P41-SWH-191 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SWH-192 ATT		C-37A	ISI	-	-	-	-	-	-
D1.20	1P41-SWH-192 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SWH-193 ATT		C-37A	ISI	-	-	-	-	-	-
D1.20	1P41-SWH-193 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SWH-194 ATT		C-37A	ISI	-	-	-	-	-	-
D1.20	1P41-SWH-194 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SWH-20 ATT		C-22	ISI	-	-	-	-	-	-
D1.20	1P41-SWH-20 ATT		Lugs	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
D-A	H1 1P41-SWH-232 ATT		C-37A	ISI	-	-	-	-	-	-
D1.20	1P41-SWH-232 ATT		LUGS	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27						
D-A D1.20 3	H1 1P41-SWH-260 ATT 1P41-SWH-260 ATT P41		C-120 Anchor	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
D-A D1.20 3	H1 1P41-SWH-269 ATT 1P41-SWH-269 ATT P41		C-39 Lugs	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
D-A D1.20 3	H1 1P41-SWH-274 ATT 1P41-SWH-274 ATT P41		C-22 Lugs	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
D-A D1.20 3	H1 1P41-SWH-290 ATT 1P41-SWH-290 ATT P41	ISI//	C-36 Lugs	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	s	- - - -	- - - -		
D-A D1.20 3	H1 1P41-SWH-711 ATT 1P41-SWH-711 ATT P41		C-21 Lugs	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
D-A D1.20 3	H1 1P41-SWH-712 ATT 1P41-SWH-712 ATT P41		C-21 Lugs	ISI AUG OWN PRE	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

SCOPE

For the 4th Interval, the determination of the Class 1, 2, and 3 supports to be examined will be performed using Subsection IWF of the 2001 Edition of Section XI through the 2003 Addenda. (The rules in IWF are similar to those used during the 3rd Interval per NRC approved Code Case N-491-1). (Note: IWE supports are not included here).

Per the IWA-9000 Glossary a component support is defined as a metal support designed to transmit loads from a component to the load-carrying building or foundation structure. Component supports include piping supports and encompass those structural elements relied upon to support the weight or provide structural stability to components.

Examinations apply to all component supports that are in the scope of the Class 1, 2, and Boundary Diagrams and not exempt. Supports exempt from examination requirements are those connected to piping or other items exempted from volumetric, surface, VT-1, or VT-3 examinations by IWX-1220. In addition, portions of supports that are inaccessible by being encased in concrete, buried underground, or encapsulated by guard pipe are also exempt from the examination requirements of IWF-2000. Component supports should be selected for examination as follows:

1. Supports should be characterized to identify its support type/function. For HNP-1, the support type/functions include the following:
 - Spring Cans – Supports weight while allowing movement due to thermal changes.
 - Hanger – Supports the weight of the piping system.
 - Restraint/struts - Prevents movement of the piping system in one or more degrees of motion.
 - Anchors - Prevents movement in all six degrees of motion.
2. 25% of the non-exempt Class 1 piping supports, 15% of the non-exempt Class 2 piping supports, and 10% of the non-exempt Class 3 piping supports shall be examined per Table IWF-2500-1.
3. The supports selected for examination shall be prorated such that the individual sample sizes for each system are proportional to the number of non-exempt supports in each system.
4. For multiple components other than piping, within a system of similar design, function, and service, the supports of only one of the multiple component are required to be examined.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

ISI PLAN TABLES

Beginning in 2005, ISI Plan Tables are generated by the industry standard ScheduleWorks ISI software. The following tables were generated using a standard format provided by ScheduleWorks. It should be noted that the Scope/Method/Procedure field is for *information only*. This information may be changed during an outage by IDDEAL users at the site, but it will not be reflected in the ISI Plan until the plan is issued after the outage. When using these tables the user needs to understand the following symbols:

Scheduled	"s"	To schedule a component, place the identifier "s" in the required period/outage.
Completed	"c"	Upon exam completion for a scheduled component and by uploading the outage scope from IDDEAL back to ScheduleWorks, an "s" will be updated to completed "c".
Re-scheduled	"r"	Once a component has been scheduled, and you wish to reschedule to another outage, replace the scheduled "s" with a rescheduled "r" and enter an "s" in the new outage schedule.
Expanded Scope	"e"	To increase a work scope without taking code credit in the percentage calculations, enter an expanded "e".
Expanded Scope Completed	"E"	Upon exam completion of an expanded scope and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "E" the exam scope is completed.
Additional Scheduled	"a"	After an initial expanded work scope has been identified and you wish to add an increased expanded work scope, enter an additional expanded scope "a".
Additional Completed	"A"	Upon exam completion of an additional expanded scope and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "A" the exam scope is completed.
Partial	"p"	To track partially completed component examination requirements enter a partial "p".
Deferred	"d"	Once a component has been scheduled, and you wish to defer the inspection to another Outage, or Period, replace the scheduled "s" with a deferred "d" and enter an "s" in the new Outage.
Limited	"l"	To track limited component examinations or limited completions of requirements enter "l".
Multiple Scheduled	"b"	For multiple scheduling of the same component in successive Outages or Periods within an Interval enter "b".
Multiple Completed	"B"	Upon exam completion of a multiple scope in the same Interval and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "B" the exam scope is completed. This multiple scheduling scope will not count as completed for code calculations.
Tickler	"t"	To track exam scopes or use as reminder or identifier to confirm scheduling enter "t".
Successive Exams	"h"	Successive examinations.
Successive Exams Com	"H"	Upon exam completion of a successive scope and by either uploading the outage scope from IDDEAL or manually changing the letter to an upper case "H" the exam scope is completed.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

EXAMINATION OF SNUBBERS

IWF-1220 of the 2001 Edition of Section XI with Addenda through 2003 requires that the inservice inspection requirements for snubbers be in accordance with the requirements of IWF-5000, which states:

- (a) Inservice examinations shall be performed in accordance with ASME/ANSI OM, Part 4, using the VT-3 visual examination method described in IWA-2213.
- (b) Inservice tests shall be performed in accordance with ASME/ANSI OM, Part 4.

10 CFR 50.55a(b)(3)(v) provides an alternative to these two requirements. Licensees to use Subsection ISTD, "Inservice Testing of Dynamic Restraints (Snubbers) in Light-Water Reactor Power Plants," ASME OM Code, 1995 Edition through the 2003 Addenda, in place of the requirements of IWF-5300(a) and (b) by making appropriate changes to their technical specifications or licensee-controlled documents (if required). Inservice examinations must be performed using the VT-3 visual examination method described in IWA-2213.

However, per IWF-5300(c) integral and non-integral attachments for snubbers including bolting, pins, and clamps, shall be examined in accordance with the requirements of this Subsection (IWF). (Attachments to the pressure boundary such as lugs will be examined per Category B-K, C-C, or D-A). IWF allows a percentage of the integral and non-integral attachments for snubbers to be examined as follows:

- Attachment welds will be examined in accordance with IWB, IWC, or IWD.
- The snubber unit including the pins that secure the snubber unit into the support structure will be examined as required by OM requirements.
- The support structure (bolting, pin, and clamps outside of the snubber unit), will be VT-3 examined and reported as required by IWF. Therefore, for Class 1 snubbers, 25% of the support structures will be scheduled and VT-3 examined; 15% of the Class 2 support structures will be scheduled and VT-3 examined, and 10% of the Class 3 support structures will be scheduled and VT-3 examined. For non-piping snubbers, Footnote 3 of Table IWF-2500-1 must be used to determine the scope.

Personnel performing the VT-3 examinations may be qualified and certified per IWA-2310 through IWA-2314 (the standard qualification/certification process) or per IWA-2317. IWA-2317 allows the use of plant personnel with at least 40 hours of plant experience in installation, maintenance, or examination of pumps, valves, and supports to perform the VT-3 examinations. These personnel must have 8 hour of training in the Section XI requirements and procedures for VT-3 visual examinations, meet the vision test requirements of IWA-2321, have an initial exam, and have a followup exam every three years. If using these alternate requirements they shall be described in the appropriate written practice. (Note: The "official" list of snubbers is shown in HNP site procedures 52SV-SUV-001-0S and 52SV-SUV-002-0S).

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

Determination of Class 1 Piping Supports to be Examined

Per IWF-1230 supports exempt from examination are those connected to piping and other items exempted from examination by IWB. These include supports on lines:

- NPS 1" for Schedule 80 and Schedule 160 water lines.
- NPS 2" for Schedule 80 steam lines and NPS 2.5" for Schedule 160 steam lines.

Per Schedule Works there are 71 Category F-A, Item F1.10 piping supports (excluding snubbers). It should be noted that, in many cases, the HNP-1 design isometric shows a containment penetration as being an anchor point for the purpose of stress analysis because it is a rigid point. This "anchor" is not labeled except for the penetration number and it is not a component support. These are: X-7A-D, X-9A&B, X-10, X-11, X-12, X-13A&B, X-14, X-16A&B, and X-17. (Note: X-11, X-13B, X-14, and X-16B were examined during the 3rd Interval, prior to development of this document; however, they are not credited).

Table IWF-2500-1, Category F-A, Item F1.10 requires that 25% of the 71 (or 18) non-exempt Class 1 supports be examined. Additionally, per Footnote 2 of Table IWF-2500-1, the examinations should be prorated among the Class 1 systems based on the number of supports shown for each system versus the total number of non-exempt supports. These proportional values are listed below for each Class 1 system and are shown as exact values only to eliminate the compounding of round-up/down errors. The number examined for each system may have a slight variance from the prorated number as long as the 18 examinations were performed.

CLASS 1 (Item F1.10)			
System	No. of Non-Exempt Supports in System	Calculated No. of Supports Examined	No. of Supports Selected
B21	30	7.5	7
B31	8	2	2
E11	11	2.75	3
E21	10	2.5	2
E41	7	1.75	2
E51	2	0.5	1
G31	3	0.75	1
TOTAL	71	17.75	18

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

Additionally, these same systems have snubbers. While the examination of the snubber unit is performed per OM, not Section XI; the remainder of the support is effectively examined the same as any other support. As shown in the table below, there are 54 snubbers in Class 1; therefore, 14 require examination per Section XI. The 14 snubbers are prorated through the Class 1 systems as shown below.

CLASS 1 (Item F1.10S)			
System	No. of Non-Exempt Snubbers in System	Calculated No. of Snubbers Examined	No. of Supports Selected
B21	23	5.75	5
B31	9	2.25	2
E11	10	2.5	3
E21	0	0	0
E41	7	1.75	2
E51	1	.25	1
G31	4	1	1
TOTAL	54	13.5	14

Because of the potential changes in the snubber population during the 4th Interval, one additional snubber has been added to the examination scope to account for any variances. This would allow the addition of four Class 1 snubbers before there would be a Code issue. This additional snubber is a B21 snubber.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

Determination of Class 2 Piping Supports to be Examined

Per IWF-1230 supports exempt from examination are those connected to piping and other items exempted from examination by IWC. These include:

- Supports located on components less than or equal to 4" in diameter. (Reference Class 2 portion of this document for IWB-1220 exemptions used at HNP-1).
- Supports located on components in systems (or portions of systems) whose function is not required in support of reactor residual heat removal, containment heat removal, and emergency core cooling and that operate at a pressure equal to or less than 275 psig and at a temperature equal to or less than 200⁰F. (Reference Class 2 portion of this document for IWB-1220 exemptions used at HNP-1).
- Supports located on components of any size beyond the last shutoff valve in open ended portions of systems that do not contain water during normal operation. (Reference Class 2 portion of this document for IWB-1220 exemptions used at HNP-1).
- Portions of supports that are inaccessible by being encased in concrete, buried underground, or encapsulated by guard pipe.

Per Schedule Works there are 359 non-exempt Category F-A, Item F1.20 piping supports (excluding snubbers). It should be noted that, in many cases, the HNP-1 design isometric shows a containment penetration, torus penetration, pump nozzle, etc. as being an anchor point for the purpose of stress analysis because it is a rigid point. This "anchor" is not labeled except for the penetration number and it is not a component support.

Table IWF-2500-1, Category F-A, Item F1.20 requires that 15% of the 359 non-exempt Class 2 supports (or 54) be examined. Additionally, per Footnote 2 of Table IWF-2500-1, the examinations should be prorated among the Class 2 systems based on the number of supports shown for each system versus the total number of non-exempt supports. These proportional values are listed below for each Class 2 system and are shown as exact values only to eliminate the compounding of round-up/down errors. The number examined for each system may have a slight variance from the prorated number as long as the 55 examinations were performed.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

CLASS 2 (Item F1.20)			
System	No. of Non-Exempt Supports in System	Calculated No. of Supports Examined	No. of Supports Selected
E11	137	20.55	21
E21	49	7.35	7
E41	86	12.9	13
E51	4	0.60	1
G51	1	0.15	1
N11	48	7.2	7
P41	18	2.7	2
T48	16	2.4	2
TOTAL	359	53.85	54

Additionally, these many of these same systems have snubbers. While the examination of the snubber unit is performed per OM, not Section XI; the remainder of the support is effectively examined the same as any other support. As shown in the table below, there are 91 snubbers in Class 2; therefore, 14 require examination per Section XI. The snubbers are prorated through the Class 2 systems as shown below.

CLASS 2 (Item F1.20S)			
System	No. of Non-Exempt Snubbers in System	Calculated No. of Snubbers Examined	No. of Supports Selected
E11	45	6.75	7
E21	3	0.45	1
E41	19	2.85	2
E51	3	0.45	1
N11	15	2.25	2
T48	6	0.9	1
TOTAL	91	13.65	14

Because of the potential changes in the snubber population during the 4th Interval, one additional snubber has been added to the examination scope to account for any variances. This would allow the addition of six Class 2 snubbers before there would be a Code issue. This additional snubber is an E41 snubber.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

Determination of Class 3 Piping Supports to be Examined

Per IWF-1230 supports exempt from examination are those connected to piping and other items exempted from examination by IWC. These include:

- Supports located on components less than or equal to 4" in diameter. (Reference Class 3 portion of this document for IWB-1220 exemptions used at HNP-1).
- Supports located on components in systems (or portions of systems) whose function is not required in support of reactor residual heat removal, containment heat removal, and emergency core cooling and that operate at a pressure equal to or less than 275 psig and at a temperature equal to or less than 200⁰F. (Reference Class 2 portion of this document for IWB-1220 exemptions used at HNP-1).
- Portions of supports that are inaccessible by being encased in concrete, buried underground, or encapsulated by guard pipe.

Per Schedule Works there are 247 non-exempt Category F-A, Item F1.30 piping supports (excluding snubbers). It should be noted that, in many cases, the HNP-1 design isometric shows a pump nozzle, etc. as being an anchor point for the purpose of stress analysis because it is a rigid point. This "anchor" is not labeled except for the penetration number and it is not a component support.

Table IWF-2500-1, Category F-A, Item F1.30 requires that 10% of the 247 non-exempt Class 3 supports be examined. Therefore, at least 25 Class 3 piping supports are required to be examined. Additionally, per Footnote 2 of Table -2500-1, the examinations should be prorated among the Class 3 systems based on the number of supports shown for each system versus the total number of non-exempt supports. These proportional values are listed below for each Class 3 system and are shown as exact values only to eliminate the compounding of round-up/down errors. The number examined for each system may have a slight variance from the prorated number as long as the 25 examinations were performed.

CLASS 3 (Item F1.30)			
System	No. of Non-Exempt Supports in System	Calculated No. of Supports Examined	No. of Supports Selected
B21	34	3.4	4
E11	79	7.9	8
E51	20	2	2
P41	114	11.4	11
TOTAL	247	24.7	25

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

Additionally, these many of these same systems have snubbers. While the examination of the snubber unit is performed per OM, not Section XI; the remainder of the support is effectively examined the same as any other support. As shown in the table below, there are 37 snubbers in Class 3; therefore, 4 require examination per Section XI. The 37 snubbers are prorated through the Class 3 systems as shown below.

CLASS 3 (Item F1.30S)			
System	No. of Non-Exempt Snubbers in System	Calculated No. of Snubbers Examined	No. of Supports Selected
B21	31	3.1	3
E11	6	0.6	1
TOTAL	37	4	4

Because of the potential changes in the snubber population during the 4th Interval, one additional snubber has been added to the examination scope to account for any variances. This would allow the addition of 10 Class 3 snubbers before there would be a Code issue. This additional snubber is an E11 snubber.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

Determination of Supports Other Than Piping to be Examined

Per Schedule Works there are 54 non-exempt Category F-A, Item F1.40 equipment supports. These 54 supports are shown in the below listed table. requires the examination of each equipment support except when there are multiple components within a system that have a similar design, function, and service. For this case, Note 3 of Table 2500-1 indicates that only the supports on one of the similar components needs to be examined. For example each of the two RC pumps has three supports for a total of six supports. Only three of the supports are required to be examined. The examination selection is shown in the below listed table.

The support structure around each RPV stabilizer brackets was not included as a support, because there are no loads transmitted to them unless there is movement of the RPV due to a significant seismic event. They are considered analogous to pipe whip restraints which are not included as supports (See Interpretation XI-80-02).

Interpretation Number: XI-80-02 **Date:** 10-APR-80

Subject: Section XI, Division 1, IWF-1100, Examination of Pipe Restraints

Question: Does Section IX, Division 1, IWF-1100 exclude pipe whip restraints from the inservice inspection requirements of Subsection IWF?

Reply: The scope of IWF is limited to those supports which are required to be constructed in accordance with Subsection NF. Since pipe whip restraints are exempt from the requirements of NF, they are also exempt from the requirements of IWF.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

Equipment Supports (Excluding Snubbers) Item F1.40						
Component	Fig	Description	P1	P2	P3	Notes
1. 1B11-A001-S01		RPV Skirt			S	
2. 1B31-HA5		RC PUMP A - SPRING				
3. 1B31-HA6		RC PUMP A - SPRING				
4. 1B31-HA7		RC PUMP A - SPRING				
5. 1B31-HB5		RC PUMP B - SPRING		S		
6. 1B31-HB6		RC PUMP B - SPRING		S		
7. 1B31-HB7		RC PUMP B - SPRING		S		
8. 1C41-A001-S01		Tank			S	
9. 1C41-C001A-S01		SBLC Pump			S	
10. 1C41-C001B-S01		SBLC Pump				
11. 1E11-B001A-S01		RHR Heat Exchanger			S	
12. 1E11-B001B-S01		RHR Heat Exchanger				
13. 1E11-C002A-S01		RHR Pump			S	
14. 1E11-C002B-S01		RHR Pump				
15. 1E11-C002C-S01		RHR Pump				
16. 1E11-C002D-S01		RHR Pump				
17. 1E21-C001A-S01		CS Pump			S	
18. 1E21-C001B-S01		CS Pump				
19. 1E41-C001-S01		HPCI Pump			S	
20. 1E51-C001-S01		RCIC Pump			S	
21. 1T47-B007A-S01		Cooling Unit			S	
22. 1T47-B007B-S01		Cooling Unit				
23. 1T47-B008A-S01		Cooling Unit			S	
24. 1T47-B008B-S01		Cooling Unit				
25. 1T47-B009A-S01		Cooling Unit			S	
26. 1T47-B009B-S01		Cooling Unit				
27. 1E11-C001A-S01		RHRSW Pump			S	
28. 1E11-C001A-S02		RHRSW Pump			S	
29. 1E11-C001B-S01		RHRSW Pump				
30. 1E11-C001B-S02		RHRSW Pump				
31. 1E11-C001C-S01		RHRSW Pump				
32. 1E11-C001C-S02		RHRSW Pump				
33. 1E11-C001D-S01		RHRSW Pump				
34. 1E11-C001D-S02		RHRSW Pump				

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

Equipment Supports (Excluding Snubbers) Item F1.40						
Component	Fig	Description	P1	P2	P3	Notes
35. 1E11-D002A-S01		RHRSW Strainer			S	
36. 1E11-D002B-S01		RHRSW Strainer				
37. 1E11-D003A-S01		RHRSW Strainer			S	
38. 1E11-D003B-S01		RHRSW Strainer				
39. 1P41-C001A-S01		PSW Pump			S	
40. 1P41-C001A-S02		PSW Pump	S			
41. 1P41-C001B-S01		PSW Pump				
42. 1P41-C001B-S02		PSW Pump				
43. 1P41-C001C-S01		PSW Pump				
44. 1P41-C001C-S02		PSW Pump				
45. 1P41-C001D-S01		PSW Pump				
46. 1P41-C001D-S02		PSW Pump				
47. 1P41-D103A-S01		PSW Strainer			S	
48. 1P41-D103B-S01		PSW Strainer				
49. 1T41-B002A-S01		RHR/CS Room Cooler			S	
50. 1T41-B002B-S01		RHR/CS Room Cooler				
51. 1T41-B003A-S01		RHR/CS Room Cooler			S	
52. 1T41-B003B-S01		RHR/CS Room Cooler				
53. 1T41-B005A-S01		HPCI Room Cooler			S	
54. 1T41-B005B-S01		HPCI Room Cooler				
TOTAL 54						

Additionally, the Recirculation Pumps have snubbers. While the examination of the snubber unit is performed per OM, not Section XI; the remainder of the support is effectively examined the same as any other support. There are six snubbers on each pump, with only the snubbers on one pump requiring examination.

**HATCH UNIT 1 FOURTH INTERVAL ISI PLAN
COMPONENT SUPPORTS**

TOTAL CLASS 1, 2, AND 3 PIPING SUPPORTS AND EQUIPMENT SUPPORTS

Code Case N-598 requirements were met as shown in the Code Compliance Scheduling Summary for F-A supports and snubbers.

HATCH UNIT 1 FOURTH INTERVAL ISI PLAN COMPONENT SUPPORTS

RE-EXAMINATION OF SUPPORTS

When a support must be subjected to corrective measures in accordance with Section - 2420 of Code Case N-491, the support shall be re-examined during the next inspection period. Interpretation XI-1-86-30R may be used to eliminate the re-examination requirement provided that the support has been analyzed and/or tested to substantiate its integrity for its intended service, and has been found to be acceptable.

Interpretation Number: XI-1-86-30R **Date:** 08-MAR-95

Subject: Section XI, IWF-2430, IWF-2420 (b), and IWF-3000; Visual Examinations of Supports and Corrective Measures (1980 Edition and Later Addenda and Editions Through the 1993 Addenda)

Question: Is it the intent that when an inservice examination of a component support reveals conditions described in IWF-3410(a), and the component support has been analyzed and/or tested to substantiate its integrity for its intended service, and has been found to be acceptable, that additional support examinations be required by IWF-2430 or successive examinations be required by IWF-2420(b) when and Owner chooses to perform corrective measures for the purpose of restoring the support to its original design condition?

Reply: No.

SNC uses an Indication Notification Form (INF) to report to document when supports require evaluation to substantiate their integrity for their intended service. INFs for a given 40-month Period should be reviewed to ensure that any required re-examinations during the next 40-month Period are scheduled. For the start of the 4th Interval only those INFs written during the 3rd Period of the 4th Interval would require re-examination in the 1st Period of the 4th Interval. There are no 3rd Interval, 3rd Period INFs applicable to supports.

Southern Nuclear Operating Company
Code Compliance Scheduling Summary - 4th Interval
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CAT	ITEM	CODECASE	POPULATION	PERCENT REQUIRED	ACTUAL REQUIRED	ROUND UP	TOTAL EXAMS	PERIOD 1			PERIOD 2			PERIOD 3		
								COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP	COUNT	ACTUAL PERIOD	ROUND UP
F-A	F1.10		71	25%	17.75	18	18	5	28.17%	28%	7	67.61%	67%	6	101.41%	100%
F-A	F1.10S		54	25%	13.5	14	15	4	29.63%	29%	6	74.07%	72%	5	111.11%	108%
F-A	F1.20		359	15%	53.85	54	55	14	26.00%	26%	22	66.85%	67%	19	102.14%	102%
F-A	F1.20S		91	15%	13.65	14	15	3	21.98%	22%	7	73.26%	72%	5	109.89%	108%
F-A	F1.30		247	10%	24.7	25	25	4	16.19%	16%	10	56.68%	56%	11	101.21%	100%
F-A	F1.30S		37	10%	3.7	4	5	1	27.03%	25%	2	81.08%	75%	2	135.14%	125%
F-A	F1.40		54	33.33%	18	18	24	1	5.56%	6%	3	22.22%	23%	20	133.33%	134%
F-A	F1.40S		12	50%	6	6	6	3	50.00%	50%	3	100.00%	100%	0	100.00%	100%
Total:			925		153	153	163	35	22.80%	23%	60	62.00%	62%	68	106.00%	106%

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-FDH-7	ISI/VT/	A-13	ISI	-	-	-	-	-	s
F1.10	1B21-FDH-7		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-8		A-8	ISI	-	-	-	-	s	-
F1.10	1B21-FDH-8		STRUT	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-9		A-8	ISI	-	-	-	-	-	-
F1.10	1B21-FDH-9		RESTRAINT	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-GA1		A-4A	ISI	-	-	-	-	s	-
F1.10	1B21-GA1		RESTRAINT	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-GB1	ISI/VT/NMP-ES-024-201	A-5A	ISI	s	-	-	-	-	-
F1.10	1B21-GB1		RESTRAINT	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-GC1		A-6A	ISI	-	-	-	-	-	-
F1.10	1B21-GC1		RESTRAINT	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-GD1		A-7A	ISI	-	-	-	-	-	-
F1.10	1B21-GD1		RESTRAINT	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HA1		A-4	ISI	-	-	-	-	-	-
F1.10	1B21-HA1		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HA2		A-4	ISI	-	-	-	-	-	-
F1.10	1B21-HA2		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HA3		A-4	ISI	-	-	-	-	-	-
F1.10	1B21-HA3		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-HB1		A-5	ISI	-	-	-	-	-	-
F1.10	1B21-HB1		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HB2		A-5	ISI	-	-	-	-	-	-
F1.10	1B21-HB2		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HB3	ISI//	A-5	ISI	-	-	-	-	-	s
F1.10	1B21-HB3		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HC1		A-6	ISI	-	-	-	-	-	-
F1.10	1B21-HC1		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HC2		A-6	ISI	-	-	-	-	-	-
F1.10	1B21-HC2		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HC3	ISI//	A-6	ISI	-	-	-	s	-	-
F1.10	1B21-HC3		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HD1		A-7	ISI	-	-	-	-	-	-
F1.10	1B21-HD1		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HD2		A-7	ISI	-	-	-	-	-	-
F1.10	1B21-HD2		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-HD3		A-7	ISI	-	s	-	-	-	-
F1.10	1B21-HD3		SPRING	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-TORSION-LATERAL		A-8	ISI	-	-	-	-	-	-
F1.10	1B21-TORSION-LATERAL		RESTRAINT	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-139		A-21	ISI	-	s	-	-	-	-
F1.10	1E11-RHRH-139		SPRING	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-141		A-22	ISI	-	-	-	-	-	-
F1.10	1E11-RHRH-141		SPRING	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-142		A-22	ISI	-	-	-	-	-	-
F1.10	1E11-RHRH-142		SPRING	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-143		A-22	ISI	-	-	-	-	-	-
F1.10	1E11-RHRH-143		SPRING	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-327		A-23	ISI	-	-	-	-	-	-
F1.10	1E11-RHRH-327		SPRING	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-328		A-23	ISI	-	-	-	-	-	-
F1.10	1E11-RHRH-328		SPRING	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-329		A-23	ISI	-	-	-	-	-	-
F1.10	1E11-RHRH-329		SPRING	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-811		A-24	ISI	-	-	-	-	-	-
F1.10	1E11-RHRH-811		HANGER	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-813	ISI/VT/	A-23	ISI	-	-	-	-	-	s
F1.10	1E11-RHRH-813		RESTRAINT	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-32		A-27	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-32		HANGER	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E21-CSH-33		A-27	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-33		SPRING	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-34		A-27	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-34		SPRING	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-38		A-26	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-38		HANGER	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-39		A-26	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-39		SPRING	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-40		A-26	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-40		SPRING	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-67		A-27	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-67		HANGER	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-80		A-26	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-80		RESTRAINT	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-802		A-27	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-802		RESTRAINT	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-82	ISI/VT/	A-26	ISI	-	-	-	-	-	-
F1.10	1E21-CSH-82		HANGER	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-29		A-29	ISI	-	-	-	-	-	-
F1.10	1E41-HPCIH-29		SPRING	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E41-HPCIH-29A	ISI/VT/NMP-ES-024-203	A-29	ISI	s	-	-	-	-	-
F1.10	1E41-HPCIH-29A		RESTRAINT	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-30		A-29	ISI	-	-	-	-	-	-
F1.10	1E41-HPCIH-30		RESTRAINT	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-31		A-29	ISI	-	-	-	-	s	-
F1.10	1E41-HPCIH-31		RESTRAINT	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-52		A-28	ISI	-	-	-	-	-	-
F1.10	1E41-HPSEH-52		SPRING	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-53		A-28	ISI	-	-	-	-	-	-
F1.10	1E41-HPSEH-53		RESTRAINT	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-R-6		A-28	ISI	-	-	-	-	-	-
F1.10	1E41-R-6		RESTRAINT	AUG	-	-	-	-	-	-
1	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCSEH-18		A-30	ISI	-	-	-	-	-	-
F1.10	1E51-RCSEH-18		SPRING	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCSEH-19		A-30	ISI	-	-	-	s	-	-
F1.10	1E51-RCSEH-19		SPRING	AUG	-	-	-	-	-	-
1	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1G31-RWCUH-1		A-32	ISI	-	-	-	-	-	-
F1.10	1G31-RWCUH-1		SPRING	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1G31-RWCUH-2		A-32	ISI	-	-	-	-	-	-
F1.10	1G31-RWCUH-2		RESTRAINT	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-FDH-14		A-12	ISI	-	-	-	-	-	-
F1.10S	1B21-FDH-14		MECH SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-17		A-12	ISI	-	-	-	-	-	-
F1.10S	1B21-FDH-17		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-18	ISI//	A-12	ISI	-	s	-	-	-	-
F1.10S	1B21-FDH-18		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-19		A-11	ISI	-	-	-	-	-	-
F1.10S	1B21-FDH-19		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-20		A-12	ISI	-	-	-	-	-	-
F1.10S	1B21-FDH-20		MECH SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-21		A-11	ISI	-	-	-	-	-	-
F1.10S	1B21-FDH-21		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-25	ISI//	A-13	ISI	-	s	-	-	-	-
F1.10S	1B21-FDH-25		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-26		A-13	ISI	-	-	-	-	-	-
F1.10S	1B21-FDH-26		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-700	ISI//	A-8	ISI	-	-	-	-	s	-
F1.10S	1B21-FDH-700		MECH SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-FDH-701A		A-10	ISI	-	-	-	-	-	-
F1.10S	1B21-FDH-701A		MECH SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1		Period 2		Period 3	
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-FDH-701B		A-10	ISI	-	-	-	-	-
F1.10S	1B21-FDH-701B		MECH SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
F-A	H1 1B21-FDH-829		A-11	ISI	-	-	-	-	-
F1.10S	1B21-FDH-829		HYDR SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
F-A	H1 1B21-RCIC-SS-41	ISI//	A-30	ISI	-	-	-	-	-
F1.10S	1B21-RCIC-SS-41		HYDR SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
F-A	H1 1B21-RCIC-SS-42		A-30	ISI	-	-	-	-	-
F1.10S	1B21-RCIC-SS-42		HYDR SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
F-A	H1 1B21-RCIC-SS-43		A-30	ISI	-	-	-	-	-
F1.10S	1B21-RCIC-SS-43		HYDR SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
F-A	H1 1B21-RCIC-SS-44		A-30	ISI	-	-	-	-	-
F1.10S	1B21-RCIC-SS-44		HYDR SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
F-A	H1 1B21-SS1	ISI//	A-4	ISI	-	-	-	-	-
F1.10S	1B21-SS1		HYDR SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
F-A	H1 1B21-SS2		A-4	ISI	-	-	-	-	-
F1.10S	1B21-SS2		HYDR SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
F-A	H1 1B21-SS23		A-6	ISI	-	-	-	-	-
F1.10S	1B21-SS23		HYDR SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-
F-A	H1 1B21-SS24		A-6	ISI	-	-	-	-	-
F1.10S	1B21-SS24		HYDR SNUBBER	AUG	-	-	-	-	-
1	B21			OWN	-	-	-	-	-
				PRE	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-SS36	ISI//	A-7	ISI	-	s	-	-	-	-
F1.10S	1B21-SS36		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS37		A-7	ISI	-	-	-	-	-	-
F1.10S	1B21-SS37		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS6		A-5	ISI	-	-	-	-	-	-
F1.10S	1B21-SS6		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSA12		A-14B	ISI	-	-	-	-	-	-
F1.10S	1B31-SSA12		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSA13		A-14B	ISI	-	-	-	-	-	-
F1.10S	1B31-SSA13		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSA7		A-14	ISI	-	-	-	-	-	-
F1.10S	1B31-SSA7		MECH SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSA8	ISI//	A-14	ISI	-	-	s	-	-	-
F1.10S	1B31-SSA8		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSB12		A-15B	ISI	-	-	-	-	-	-
F1.10S	1B31-SSB12		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSB13		A-15B	ISI	-	-	-	-	-	-
F1.10S	1B31-SSB13		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSB14		A-15B	ISI	-	-	-	-	-	-
F1.10S	1B31-SSB14		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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				Period 1				Period 2				Period 3			
Category, ItemNO, Class		Summary / ComplD / System		Scope / Method / Procedure		Iso No. Comp. Desc. Code Case		1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27		
F-A	H1 1E11-SM-4			A-23	ISI	-	-	-	-	-	-	-	-		
F1.10S	1E11-SM-4			HYDR SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E11				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		
F-A	H1 1E11-SM-8			A-22	ISI	-	-	-	-	-	-	-	-		
F1.10S	1E11-SM-8			HYDR SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E11				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		
F-A	H1 1E41-SS-17			A-28	ISI	-	-	-	-	-	-	-	-		
F1.10S	1E41-SS-17			HYDR SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E41				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		
F-A	H1 1E41-SS-18			A-28	ISI	-	-	-	-	-	-	-	-		
F1.10S	1E41-SS-18			HYDR SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E41				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		
F-A	H1 1E41-SS-19	ISI//		A-28	ISI	-	-	-	-	s	-	-	-		
F1.10S	1E41-SS-19			HYDR SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E41				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		
F-A	H1 1E41-SS-20			A-28	ISI	-	-	-	-	-	-	-	-		
F1.10S	1E41-SS-20			HYDR SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E41				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		
F-A	H1 1E41-SS-21	ISI//		A-28	ISI	-	-	-	-	-	-	s	-		
F1.10S	1E41-SS-21			HYDR SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E41				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		
F-A	H1 1E41-SS-22			A-28	ISI	-	-	-	-	-	-	-	-		
F1.10S	1E41-SS-22			HYDR SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E41				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		
F-A	H1 1E41-SS-8			A-28	ISI	-	-	-	-	-	-	-	-		
F1.10S	1E41-SS-8			HYDR SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E41				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		
F-A	H1 1E51-RCIC-H705	ISI//		A-31	ISI	-	-	-	-	s	-	-	-		
F1.10S	1E51-RCIC-H705			MECH SNUBBER	AUG	-	-	-	-	-	-	-	-		
1	E51				OWN	-	-	-	-	-	-	-	-		
					PRE	-	-	-	-	-	-	-	-		

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1G31-S17		A-32	ISI	-	-	-	-	-	-
F1.10S	1G31-S17		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1G31-SM-5		A-32	ISI	-	-	-	-	-	-
F1.10S	1G31-SM-5		SNUBBER	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1G31-SM-6	ISI//	A-32	ISI	-	-	-	-	-	-
F1.10S	1G31-SM-6		MECH SNUBBER	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1G31-SM-7		A-32	ISI	-	-	-	-	-	-
F1.10S	1G31-SM-7		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-147		B-62	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-147		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-148		B-62	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-148		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-15		B-41	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-15		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-153		B-72	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-153		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-154		B-72	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-154		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-16		B-41	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-16		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-17		B-41	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-17		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-18	ISI/VT/NMP-ES-024-203	B-41	ISI	s	-	-	-	-	-
F1.20	1E11-RHRH-18		ANCHOR	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-19		B-34	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-19		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-190		B-39	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-190		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class				Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1				Period 2				Period 3			
							1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
F-A	H1 1E11-RHRH-194			B-41	ISI	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-194			RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1 1E11-RHRH-197			B-40	ISI	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-197			RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1 1E11-RHRH-198			B-40	ISI	-	-	-	-	-	s	-	-	-	-	-	-	
F1.20	1E11-RHRH-198			RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1 1E11-RHRH-20			B-34	ISI	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-20			SPRING	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1 1E11-RHRH-200			B-41	ISI	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-200			RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1 1E11-RHRH-201			B-33	ISI	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-201			RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1 1E11-RHRH-203			B-33	ISI	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-203			RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1 1E11-RHRH-204			B-33	ISI	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-204			RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1 1E11-RHRH-206			B-72	ISI	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-206			RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1 1E11-RHRH-208			B-72	ISI	-	-	-	-	-	s	-	-	-	-	-	-	
F1.20	1E11-RHRH-208			RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11				OWN	-	-	-	-	-	-	-	-	-	-	-	-	
					PRE	-	-	-	-	-	-	-	-	-	-	-	-	

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-209		B-53	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-209		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-21		B-34	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-21		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-219	ISI/VT/NMP-ES-024-203	B-46	ISI	s	-	-	-	-	-
F1.20	1E11-RHRH-219		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-22	ISI//	B-35	ISI	-	s	-	-	-	-
F1.20	1E11-RHRH-22		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-222		B-49	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-222		RIGID SUPPORT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-23		B-37	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-23		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-232A&B		B-45	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-232A&B		RIGID SUPPORT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-235		B-52	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-235		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-236		B-52	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-236		ANCHOR	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-239		B-52	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-239		RIGID SUPPORT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-33		B-58	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-33		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-330		B-39	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-330		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-331		B-38	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-331		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-35		B-58	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-35		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-350		B-34	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-350		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-36		B-58	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-36		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-37	ISI//	B-43	ISI	-	s	-	-	-	-
F1.20	1E11-RHRH-37		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-38		B-45	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-38		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-39		B-44	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-39		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-397		B-52	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-397		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class				Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1				Period 2				Period 3			
							1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27						
F-A	H1	1E11-RHRH-54	B-60	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-54	HANGER	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1	1E11-RHRH-55	B-60	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-55	HANGER	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1	1E11-RHRH-57	B-60	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-57	HANGER	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1	1E11-RHRH-58	B-60	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-58	ANCHOR	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1	1E11-RHRH-60	B-48	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-60	HANGER	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1	1E11-RHRH-61	B-48	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-61	HANGER	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1	1E11-RHRH-62	B-48	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-62	RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1	1E11-RHRH-63	B-48	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-63	HANGER	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1	1E11-RHRH-64	B-48	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-64	ANCHOR	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F-A	H1	1E11-RHRH-66	B-61	ISI	-	-	-	-	-	-	-	-	-	-	-	-	-	
F1.20	1E11-RHRH-66	ANCHOR	AUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	E11		OWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			PRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-72		B-61	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-72		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-720	ISI//	B-39	ISI	-	s	-	-	-	-
F1.20	1E11-RHRH-720		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-723		B-5	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-723		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-727	ISI//	B-57	ISI	-	-	-	-	-	s
F1.20	1E11-RHRH-727		SPRING	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-729		B-22	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-729		RIGID SUPPORT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-73		B-65	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-73		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-731		B-63	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-731		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-733		B-67	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-733		RIGID SUPPORT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-74		B-65	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-74		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-75		B-65	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-75		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-76		B-65	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-76		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-77	ISI//	B-65	ISI	-	-	-	-	s	-
F1.20	1E11-RHRH-77		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-78		B-65	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-78		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-79		B-65	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-79		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-8		B-39	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-8		SUPPORT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-80		B-51	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-80		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-800		B-55	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-800		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-801		B-71	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-801		RESTRAINT	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-81		B-51	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-81		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-83		B-51	ISI	-	-	-	-	-	-
F1.20	1E11-RHRH-83		HANGER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1				Period 2				Period 3			
				1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
F-A	H1 1E21-CSH-18		B-2	ISI	-	-	-	-	S	-	-	-	-	-	-
F1.20	1E21-CSH-18		SPRING	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-
F-A	H1 1E21-CSH-19		B-2	ISI	-	-	-	-		-	-	-	-	-	-
F1.20	1E21-CSH-19		SUPPORT	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-
F-A	H1 1E21-CSH-20		B-2	ISI	-	-	-	-		-	-	-	-	-	-
F1.20	1E21-CSH-20		SPRING	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-
F-A	H1 1E21-CSH-21		B-3	ISI	-	-	-	-		-	-	-	-	-	-
F1.20	1E21-CSH-21		SPRING	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-
F-A	H1 1E21-CSH-22		B-5	ISI	-	-	-	-		-	-	-	-	-	-
F1.20	1E21-CSH-22		HANGER	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-
F-A	H1 1E21-CSH-23		B-5	ISI	-	-	-	-		-	-	-	-	-	-
F1.20	1E21-CSH-23		ANCHOR	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-
F-A	H1 1E21-CSH-24		B-4	ISI	-	-	-	-		-	-	-	-	-	-
F1.20	1E21-CSH-24		HANGER	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-
F-A	H1 1E21-CSH-25		B-4	ISI	-	-	-	-		-	-	-	-	-	-
F1.20	1E21-CSH-25		HANGER	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-
F-A	H1 1E21-CSH-26		B-7	ISI	-	-	-	-		-	-	-	-	-	-
F1.20	1E21-CSH-26		SPRING	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-
F-A	H1 1E21-CSH-27		B-8	ISI	-	-	-	-		-	-	-	-	-	-
F1.20	1E21-CSH-27		SPRING	AUG	-	-	-	-		-	-	-	-	-	-
2	E21			OWN	-	-	-	-		-	-	-	-	-	-
				PRE	-	-	-	-		-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1				Period 2				Period 3			
					1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
F-A F1.20 2	H1 1E21-CSH-28 1E21-CSH-28 E21		B-8 ANCHOR	ISI AUG OWN PRE	-	-	-	-	S	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E21-CSH-29 1E21-CSH-29 E21		B-7 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E21-CSH-30 1E21-CSH-30 E21	ISI//	B-9 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	S	-	-
F-A F1.20 2	H1 1E21-CSH-31 1E21-CSH-31 E21		B-9 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E21-CSH-35 1E21-CSH-35 E21		B-6 HANGER	ISI AUG OWN PRE	-	-	-	-	S	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E21-CSH-36 1E21-CSH-36 E21		B-6 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E21-CSH-37 1E21-CSH-37 E21		B-6 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E21-CSH-41 1E21-CSH-41 E21		B-1 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E21-CSH-42 1E21-CSH-42 E21		B-2 HANGER	ISI AUG OWN PRE	-	-	-	-	S	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E21-CSH-43 1E21-CSH-43 E21		B-1 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E21-CSH-62		B-9	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-62		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-63		B-9	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-63		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-64		B-9	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-64		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-65		B-9	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-65		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-68		B-3	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-68		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-69		B-3	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-69		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-70		B-3	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-70		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-72		B-3	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-72		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-73		B-5	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-73		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-74		B-4	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-74		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E21-CSH-75		B-6	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-75		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-76		B-6	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-76		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-77		B-6	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-77		ANCHOR	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-78		B-6	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-78		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-8		B-1	ISI	-	-	-	-	-	-
F1.20	1E21-CSH-8		RESTRAINT	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-9	ISI//	B-1	ISI	-	s	-	-	-	-
F1.20	1E21-CSH-9		SPRING	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-1	ISI/VT/NMP-ES-024-203	B-13A	ISI	s	-	-	-	-	-
F1.20	1E41-HPCIH-1		ANCHOR	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-10		B-13	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-10		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-11		B-13	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-11		SUPPORT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-11A		B-10	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-11A		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E41-HPCIH-11B	ISI/VT/	B-10	ISI	-	-	-	-	-	s
F1.20	1E41-HPCIH-11B		SUPPORT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-12	ISI/VT/NMP-ES-024-203	B-10	ISI	s	-	-	-	-	-
F1.20	1E41-HPCIH-12		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-13A	ISI/VT/NMP-ES-024-203	B-10	ISI	s	-	-	-	-	-
F1.20	1E41-HPCIH-13A		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-14		B-10	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-14		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-15		B-10	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-15		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-16	ISI/VT/NMP-ES-024-203	B-12	ISI	s	-	-	-	-	-
F1.20	1E41-HPCIH-16		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-17		B-12	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-17		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-2		B-13A	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-2		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-22		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-22		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-23		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-23		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E41-HPCIH-24		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-24		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-25		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-25		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-26		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-26		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-27		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-27		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-27A		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-27A		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-28		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-28		ANCHOR	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-2A		B-13A	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-2A		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-3		B-13A	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-3		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-38		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-38		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-4	ISI/VT/	B-13A	ISI	-	-	-	-	s	-
F1.20	1E41-HPCIH-4		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E41-HPCIH-5		B-13A	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-5		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-6		B-13A	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-6		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-7		B-13A	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-7		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-701		B-10	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-701		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-8		B-13	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-8		SUPPORT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-800		B-11	ISI	-	-	-	-	-	-
F1.20	1E41-HPCIH-800		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-10		B-15	ISI	-	-	-	-	s	-
F1.20	1E41-HPSEH-10		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-14		B-16	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-14		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-15		B-16	ISI	-	-	-	-	s	-
F1.20	1E41-HPSEH-15		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-19		B-22	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-19		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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				1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
F-A F1.20 2	H1 1E41-HPSEH-20 1E41-HPSEH-20 E41	B-22 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E41-HPSEH-21 1E41-HPSEH-21 E41	B-18 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E41-HPSEH-25 1E41-HPSEH-25 E41	B-57 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E41-HPSEH-26 1E41-HPSEH-26 E41	B-57 SPRING	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E41-HPSEH-27 1E41-HPSEH-27 E41	B-18 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E41-HPSEH-29 1E41-HPSEH-29 E41	B-18 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E41-HPSEH-3 1E41-HPSEH-3 E41	B-15 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E41-HPSEH-30 1E41-HPSEH-30 E41	B-18 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E41-HPSEH-31 1E41-HPSEH-31 E41	B-19 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1E41-HPSEH-32 1E41-HPSEH-32 E41	B-19 SUPPORT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	s	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E41-HPSEH-34		B-19	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-34		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-35		B-19	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-35		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-36		B-19	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-36		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-37		B-67	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-37		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-38		B-67	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-38		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-39		B-67	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-39		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-44		B-69	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-44		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-45		B-69	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-45		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-46		B-69	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-46		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-47		B-69	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-47		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E41-HPSEH-71		B-73	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-71		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-74		B-73	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-74		RIGID SUPPORT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-75	ISI//	B-73	ISI	-	-	-	s	-	-
F1.20	1E41-HPSEH-75		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-78		B-73	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-78		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-79		B-69	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-79		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-810		B-73	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-810		HANGER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-813	ISI//	B-21	ISI	-	-	-	s	-	-
F1.20	1E41-HPSEH-813		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-86		B-69	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-86		SPRING	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-8A		B-15	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-8A		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPSEH-9		B-15	ISI	-	-	-	-	-	-
F1.20	1E41-HPSEH-9		RESTRAINT	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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				1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
F-A	H1 1N11-AD-1		B-77	ISI	-	-	-	-	-	-	-	-	-	-	-
F1.20	1N11-AD-1		ANCHOR	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-
F-A	H1 1N11-MSH-1		B-76	ISI	-	-	-	-	-	-	-	-	-	-	-
F1.20	1N11-MSH-1		SPRING	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-
F-A	H1 1N11-MSH-10		B-77	ISI	-	-	-	-	s	-	-	-	-	-	-
F1.20	1N11-MSH-10		SPRING	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-
F-A	H1 1N11-MSH-11		B-77	ISI	-	-	-	-	-	-	-	-	-	-	-
F1.20	1N11-MSH-11		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-
F-A	H1 1N11-MSH-12		B-77	ISI	-	-	-	-	-	-	-	-	-	-	-
F1.20	1N11-MSH-12		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-
F-A	H1 1N11-MSH-13		B-77	ISI	-	-	-	-	-	-	-	-	-	-	-
F1.20	1N11-MSH-13		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-
F-A	H1 1N11-MSH-15		B-77	ISI	-	-	-	-	-	-	-	-	-	-	-
F1.20	1N11-MSH-15		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-
F-A	H1 1N11-MSH-16		B-77	ISI	-	-	-	-	-	-	-	-	-	-	-
F1.20	1N11-MSH-16		HANGER	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-
F-A	H1 1N11-MSH-18		B-74	ISI	-	-	-	-	-	-	-	-	-	-	-
F1.20	1N11-MSH-18		SPRING	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-
F-A	H1 1N11-MSH-19		B-74	ISI	-	-	-	-	-	-	-	-	-	-	-
F1.20	1N11-MSH-19		HANGER	AUG	-	-	-	-	-	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1N11-MSH-2		B-76	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-2		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-21		B-74	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-21		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-22		B-74	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-22		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-24		B-74	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-24		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-25		B-74	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-25		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-26		B-75	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-26		SPRING	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-27		B-75	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-27		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-28		B-75	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-28		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-3		B-76	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-3		SUPPORT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-31		B-75	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-31		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1N11-MSH-32		B-75	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-32		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-34		B-75	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-34		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-35		B-75	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-35		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-4	ISI/VT/	B-76	ISI	-	-	-	-	s	-
F1.20	1N11-MSH-4		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-5		B-76	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-5		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-55		B-76	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-55		SPRING	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-56		B-77	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-56		SPRING	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-57		B-74	ISI	-	-	-	-	s	-
F1.20	1N11-MSH-57		SPRING	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-58		B-75	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-58		SPRING	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-7		B-76	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-7		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1N11-MSH-700		B-77	ISI	-	-	-	-	-	-
F1.20	1N11-MSH-700		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-20		B-81	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-20		SUPPORT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-21		B-81	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-21		SUPPORT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-22	ISI/VT/	B-81	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-22		SUPPORT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-23		B-81	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-23		SUPPORT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-24		B-80	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-24		SUPPORT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-25		B-80	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-25		SUPPORT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-26		B-80	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-26		SUPPORT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-27		B-80	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-27		SUPPORT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-28		B-80	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-28		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1N11-TBH-29		B-80	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-29		HANGER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-31		B-81	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-31		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-34		B-80	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-34		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-35		B-80	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-35		RESTRAINT	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-TBH-36		B-81	ISI	-	-	-	-	-	-
F1.20	1N11-TBH-36		ANCHOR	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-104		B-103	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-104		ANCHOR (WELDED ATTACHMENT)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-143		B-101	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-143		ANCHOR (WELDED)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-173		B-101	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-173		RESTRAINT (WELDED)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-259		B-103	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-259		ANCHOR (WELDED ATTACHMENT)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-820		B-105	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-820		RESTRAINT	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1P41-SWH-83		B-104	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-83		RESTRAINT(NO ATT)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-84		B-104	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-84		HANGER (NO ATT)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-85		B-104	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-85		HANGER (NO ATT)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-86		B-106	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-86		RESTRAINT	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-87		B-103	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-87		HANGER (NO ATT)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-88		B-102	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-88		HANGER (NO ATT)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-89		B-104	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-89		HANGER (NO ATT)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-90	ISI//	B-105	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-90		RESTRAINT (WELDED)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-91		B-101	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-91		HANGER (NO ATT)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-92		B-102	ISI	-	-	-	-	-	-
F1.20	1P41-SWH-92		RESTRAINT (WELDED)	AUG	-	-	-	-	-	-
2	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1				Period 2				Period 3			
				1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
F-A F1.20 2	H1 1P41-SWH-93 1P41-SWH-93 P41		B-102 HANGER (NO ATT)	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1P41-SWH-94 1P41-SWH-94 P41		B-105 HANGER (NO ATT)	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1P41-SWH-95 1P41-SWH-95 P41		B-101 RESTRAINT (WELDED)	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1T48-CPH-21 1T48-CPH-21 T48		B-26 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1T48-CPH-22 1T48-CPH-22 T48		B-26 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1T48-CPH-23 1T48-CPH-23 T48		B-26 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1T48-CPH-35 1T48-CPH-35 T48		B-30 ANCHOR	ISI AUG OWN PRE	-	-	-	-	-	s	-	-	-	-	-
F-A F1.20 2	H1 1T48-CPH-36 1T48-CPH-36 T48		B-30 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1T48-CPH-37 1T48-CPH-37 T48		B-30 HANGER	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.20 2	H1 1T48-CPH-38 1T48-CPH-38 T48		B-30 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	s	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1T48-CPH-39		B-30	ISI	-	-	-	-	-	-
F1.20	1T48-CPH-39		HANGER	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T48-CPH-48		B-26	ISI	-	-	-	-	-	-
F1.20	1T48-CPH-48		HANGER	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T48-CPH-50		B-29	ISI	-	-	-	-	-	-
F1.20	1T48-CPH-50		SPRING	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T48-CPH-53		B-27	ISI	-	-	-	-	-	-
F1.20	1T48-CPH-53		SPRING	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T48-CPH-54		B-27	ISI	-	-	-	-	-	-
F1.20	1T48-CPH-54		SPRING	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T48-CPH-703		B-29	ISI	-	-	-	-	-	-
F1.20	1T48-CPH-703		HANGER	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T48-CPH-704		B-29	ISI	-	-	-	-	-	-
F1.20	1T48-CPH-704		HANGER	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T48-X-220		B-28	ISI	-	-	-	-	-	-
F1.20	1T48-X-220		ANCHOR	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T48-X-25		B-27	ISI	-	-	-	-	-	-
F1.20	1T48-X-25		ANCHOR	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-187A&B		B-42	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-187A&B		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-188		B-39	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-188		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-189	ISI//	B-39	ISI	-	s	-	-	-	-
F1.20S	1E11-RHRH-189		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-192		B-41	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-192		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-193		B-41	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-193		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-195	ISI//	B-41	ISI	-	-	s	-	-	-
F1.20S	1E11-RHRH-195		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-196		B-41	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-196		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-199		B-40	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-199		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-202		B-33	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-202		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-207		B-72	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-207		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-210		B-53	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-210		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-212	ISI//	B-54	ISI	-	-	-	-	-	s
F1.20S	1E11-RHRH-212		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-213		B-55	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-213		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-216		B-56	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-216		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-217		B-56	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-217		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-218		B-58	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-218		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-221	ISI//	B-49	ISI	-	s	-	-	-	-
F1.20S	1E11-RHRH-221		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-223		B-46	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-223		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-225		B-47	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-225		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-240		B-62	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-240		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-244	ISI//	B-51	ISI	-	-	-	-	-	s
F1.20S	1E11-RHRH-244		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-250		B-61	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-250		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-251		B-61	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-251		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-252	ISI//	B-61	ISI	-	-	-	s	-	-
F1.20S	1E11-RHRH-252		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-254		B-65	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-254		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-305		B-56	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-305		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-309		B-35	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-309		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-310		B-35	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-310		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-312		B-34	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-312		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-313		B-34	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-313		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-316		B-37	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-316		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-319A	ISI//	B-50	ISI	-	-	-	-	-	s
F1.20S	1E11-RHRH-319A		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-323A&B		B-36	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-323A&B		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-324		B-38	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-324		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-325		B-38	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-325		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-34		B-58	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-34		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-43		B-47	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-43		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-708A&B		B-52	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-708A&B		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-709		B-36	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-709		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-711		B-36	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-711		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-713		B-42	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-713		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-716		B-42	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-716		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-719A&B		B-37	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-719A&B		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-722		B-51	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-722		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-725		B-20	ISI	-	-	-	-	-	-
F1.20S	1E11-RHRH-725		MECH SNUBBER	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-57	ISI//	B-7	ISI	-	-	-	-	-	-
F1.20S	1E21-CSH-57		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-71		B-3	ISI	-	-	-	-	-	-
F1.20S	1E21-CSH-71		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-CSH-79		B-6	ISI	-	-	-	-	-	-
F1.20S	1E21-CSH-79		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-13		B-10	ISI	-	-	-	-	-	-
F1.20S	1E41-HPCIH-13		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E41-HPCIH-700		B-13	ISI	-	-	-	-	-	-
F1.20S	1E41-HPCIH-700		SNUBBER	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1N11-MSH-14		B-77	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-14		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-20	ISI//	B-74	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-20		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-23		B-74	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-23		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-30		B-75	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-30		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-33		B-75	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-33		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-36		B-76	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-36		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-37		B-77	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-37		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-38		B-74	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-38		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-39	ISI//	B-75	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-39		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1N11-MSH-40		B-75	ISI	-	-	-	-	-	-
F1.20S	1N11-MSH-40		HYDR SNUBBER	AUG	-	-	-	-	-	-
2	N11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1T48-CPH-702	ISI//	B-26	ISI	-	-	-	-	-	-
F1.20S	1T48-CPH-702		MECH SNUBBER	AUG	-	-	-	-	-	-
2	T48			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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HNP-1 Fourth Interval Class 3 Supports Plan
Southern Nuclear Operating Company

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Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1				Period 2				Period 3			
				1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
F-A F1.30 3	H1 1B21-H812 1B21-H812 B21		C-79 SPRING	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.30 3	H1 1B21-H813 1B21-H813 B21		C-79 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.30 3	H1 1B21-H814 1B21-H814 B21		C-90 SPRING	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.30 3	H1 1B21-H815 1B21-H815 B21		C-90 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.30 3	H1 1B21-H816 1B21-H816 B21		C-78 SPRING	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.30 3	H1 1B21-H817 1B21-H817 B21		C-78 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.30 3	H1 1B21-H818 1B21-H818 B21		C-89 SPRING	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.30 3	H1 1B21-H819 1B21-H819 B21		C-89 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.30 3	H1 1B21-H820 1B21-H820 B21		C-82 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	-	-
F-A F1.30 3	H1 1B21-H821 1B21-H821 B21	ISI//	C-84 RESTRAINT	ISI AUG OWN PRE	-	-	-	-	-	-	-	-	-	s	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-H822		C-81	ISI	-	-	-	-	-	-
F1.30	1B21-H822		SPRING	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-H824	ISI//	C-83	ISI	-	-	-	-	s	-
F1.30	1B21-H824		SPRING	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-H-825		C-88	ISI	-	-	-	-	-	-
F1.30	1B21-H-825		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-H826		C-86	ISI	-	-	-	-	-	-
F1.30	1B21-H826		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-3	ISI/VT/NMP-ES-024-201	C-80	ISI	s	-	-	-	-	-
F1.30	1B21-MVVH-3		SPRING	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-30		C-91	ISI	-	-	-	-	-	-
F1.30	1B21-MVVH-30		SPRING	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-34		C-91	ISI	-	-	-	-	-	-
F1.30	1B21-MVVH-34		SPRING	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-700		C-82	ISI	-	-	-	-	-	-
F1.30	1B21-MVVH-700		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-701		C-80	ISI	-	-	-	-	-	-
F1.30	1B21-MVVH-701		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-702		C-84	ISI	-	-	-	-	-	-
F1.30	1B21-MVVH-702		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-MVVH-703		C-92	ISI	-	-	-	-	-	-
F1.30	1B21-MVVH-703		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-8		C-85	ISI	-	-	-	-	-	-
F1.30	1B21-MVVH-8		SPRING	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-9		C-87	ISI	-	-	-	-	-	-
F1.30	1B21-MVVH-9		SPRING	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-R1		C-90,-79	ISI	-	-	-	-	-	-
F1.30	1B21-R1		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-R2		C-89,-90	ISI	-	-	-	-	-	-
F1.30	1B21-R2		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-R3		C-78,-89	ISI	-	-	-	-	-	-
F1.30	1B21-R3		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-R4		C-78,-79	ISI	-	-	-	-	-	-
F1.30	1B21-R4		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-R7		C-80	ISI	-	-	-	-	-	-
F1.30	1B21-R7		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-R7-R8		C-83	ISI	-	-	-	-	-	-
F1.30	1B21-R7-R8		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-R8		C-81	ISI	-	-	-	-	-	-
F1.30	1B21-R8		RESTRAINT	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-ISH-57		C-4	ISI	-	-	-	-	-	-
F1.30	1E11-ISH-57		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-59		C-1	ISI	-	-	-	-	-	-
F1.30	1E11-ISH-59		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-6		C-1	ISI	-	-	-	-	-	-
F1.30	1E11-ISH-6		SUPPORT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-60		C-3	ISI	-	-	-	-	-	-
F1.30	1E11-ISH-60		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-61		C-4	ISI	-	-	-	-	-	-
F1.30	1E11-ISH-61		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-7		C-1	ISI	-	-	-	-	-	-
F1.30	1E11-ISH-7		SUPPORT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-700		C-2	ISI	-	-	-	-	-	-
F1.30	1E11-ISH-700		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-701		C-2	ISI	-	-	-	-	-	-
F1.30	1E11-ISH-701		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-702	ISI//	C-4	ISI	-	-	-	-	-	s
F1.30	1E11-ISH-702	ISI//	RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-703		C-4	ISI	-	-	-	-	-	-
F1.30	1E11-ISH-703		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1		Period 2		Period 3	
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-ISH-704		C-4	ISI	-	-	-	-	-
F1.30	1E11-ISH-704		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-8		C-2	ISI	-	-	-	-	-
F1.30	1E11-ISH-8		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-84		C-2	ISI	-	-	-	-	-
F1.30	1E11-ISH-84		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-85		C-4	ISI	-	-	-	-	-
F1.30	1E11-ISH-85		ANCHOR	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-ISH-9		C-2	ISI	-	-	-	-	-
F1.30	1E11-ISH-9		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-100		C-7	ISI	-	-	-	-	-
F1.30	1E11-RHRH-100		HANGER	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-101		C-7	ISI	-	-	-	-	-
F1.30	1E11-RHRH-101		HANGER	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-102		C-5	ISI	-	-	-	-	-
F1.30	1E11-RHRH-102		HANGER	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-103		C-6	ISI	-	-	-	s	-
F1.30	1E11-RHRH-103		HANGER	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-104		C-6	ISI	-	-	-	-	-
F1.30	1E11-RHRH-104		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-105		C-6	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-105		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-106		C-6	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-106		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-107		C-6	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-107		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-108		C-6	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-108		ANCHOR	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-109		C-6	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-109		SPRING	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-110	ISI//	C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-110		SPRING	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-111		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-111		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-112		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-112		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-113		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-113		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-114		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-114		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1		Period 2		Period 3	
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-115		C-7	ISI	-	-	-	-	-
F1.30	1E11-RHRH-115		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-278		C-5	ISI	-	-	-	-	-
F1.30	1E11-RHRH-278		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-281		C-5	ISI	-	-	-	-	-
F1.30	1E11-RHRH-281		ANCHOR	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-283		C-5	ISI	-	-	-	-	-
F1.30	1E11-RHRH-283		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-285		C-5	ISI	-	-	-	-	-
F1.30	1E11-RHRH-285		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-287		C-5	ISI	-	-	-	-	-
F1.30	1E11-RHRH-287		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-290		C-7	ISI	-	-	-	-	-
F1.30	1E11-RHRH-290		ANCHOR	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-291		C-7	ISI	-	-	-	-	-
F1.30	1E11-RHRH-291		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-293		C-7	ISI	-	-	-	-	-
F1.30	1E11-RHRH-293		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-295		C-7	ISI	-	-	-	-	-
F1.30	1E11-RHRH-295		RESTRAINT	AUG	-	-	-	-	-
3	E11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-296		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-296		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-297		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-297		ANCHOR	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-298		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-298		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-302		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-302		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-303		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-303		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-343		C-6	ISI	-	-	-	s	-	-
F1.30	1E11-RHRH-343		ANCHOR	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-345		C-6	ISI	-	-	-	s	-	-
F1.30	1E11-RHRH-345		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-347		C-6	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-347		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-349		C-6	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-349		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-410		C-5	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-410		RESTRAINT	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-RHRH-97		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-97		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-98		C-7	ISI	-	-	-	-	-	-
F1.30	1E11-RHRH-98		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-RHRH-99	ISI//	C-7	ISI	-	-	-	-	-	s
F1.30	1E11-RHRH-99		HANGER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-1		C-94B	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-1		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-10		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-10		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-11	ISI/VT/	C-94A	ISI	-	-	-	-	-	s
F1.30	1E51-RCICH-11		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-12		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-12		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-13		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-13		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-14		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-14		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-15		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-15		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E51-RCICH-2		C-94B	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-2		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-3		C-94B	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-3		HANGER	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-39		C-94B	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-39		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-4		C-94B	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-4		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-5		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-5		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-6		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-6		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-7		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-7		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-703		C-94A	ISI	-	-	-	-	s	-
F1.30	1E51-RCICH-703		HANGER	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-8		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-8		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-800		C-94B	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-800		HANGER	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E51-RCICH-801		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-801		ANCHOR	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-802		C-94B	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-802		ANCHOR	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-RCICH-9		C-94A	ISI	-	-	-	-	-	-
F1.30	1E51-RCICH-9		RESTRAINT	AUG	-	-	-	-	-	-
3	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-ISH-25		C-8	ISI	-	-	-	-	-	-
F1.30	1P41-ISH-25		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-ISH-26	ISI//	C-8	ISI	-	s	-	-	-	-
F1.30	1P41-ISH-26		SUPPORT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-ISH-27		C-10	ISI	-	-	-	-	-	-
F1.30	1P41-ISH-27		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-ISH-28		C-10	ISI	-	-	-	-	-	-
F1.30	1P41-ISH-28		SUPPORT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-ISH-29		C-9	ISI	-	-	-	-	-	-
F1.30	1P41-ISH-29		SUPPORT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-ISH-30		C-9	ISI	-	-	-	-	-	-
F1.30	1P41-ISH-30		SUPPORT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-ISH-31		C-11	ISI	-	-	s	-	-	-
F1.30	1P41-ISH-31		SUPPORT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1P41-SDGH-51		C-19	ISI	-	-	-	-	-	-
F1.30	1P41-SDGH-51		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SDGH-6		C-18	ISI	-	-	-	-	-	-
F1.30	1P41-SDGH-6		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SDGH-7		C-18	ISI	-	-	-	-	-	-
F1.30	1P41-SDGH-7		SPRING	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SDGH-700		C-20	ISI	-	-	-	-	-	-
F1.30	1P41-SDGH-700		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SDGH-701		C-20	ISI	-	-	-	-	-	-
F1.30	1P41-SDGH-701		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SDGH-703	ISI//	C-18	ISI	-	-	-	-	-	-
F1.30	1P41-SDGH-703		ANCHOR	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SDGH-800		C-18	ISI	-	-	-	-	-	-
F1.30	1P41-SDGH-800		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SDGH-A1		C-19	ISI	-	-	-	-	-	-
F1.30	1P41-SDGH-A1		Anchor at Floor	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-1		C-36	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-1		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-10		C-73	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-10		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1P41-SWH-11		C-73	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-11		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-12		C-73	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-12		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-13		C-73	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-13		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-14A		C-120	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-14A			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-14B		C-73	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-14B		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-15		C-73	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-15		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-16		C-73	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-16		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-17		C-21	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-17		ANCHOR	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-174		C-121	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-174			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-175		C-121	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-175			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1P41-SWH-18		C-21	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-18		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-180		C-36	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-180		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-181		C-36	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-181		ANCHOR	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-182		C-37	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-182		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-184		C-38	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-184		SUPPORT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-185		C-38	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-185		SUPPORT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-19		C-21	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-19		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-190		C-37A	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-190		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-191		C-37A	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-191		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-192		C-37A	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-192		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1P41-SWH-46		C-121	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-46			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-48		C-121	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-48			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-49		C-120	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-49			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-5		C-39	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-5		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-50		C-120	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-50			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-51		C-120	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-51			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-52		C-120	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-52			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-54		C-120	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-54			AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-6		C-39	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-6		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-69A		C-39	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-69A		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1P41-SWH-701		C-37A	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-701		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-711		C-21	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-711		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-712		C-21	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-712		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-8		C-39	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-8		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-800		C-73	ISI	-	-	-	-	s	-
F1.30	1P41-SWH-800		RESTRAINT	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-801		C-36	ISI	-	-	-	-	s	-
F1.30	1P41-SWH-801		HANGER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-SWH-9		C-39	ISI	-	-	-	-	-	-
F1.30	1P41-SWH-9		ANCHOR	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-MVVH-31		C-91	ISI	-	-	-	-	-	-
F1.30S	1B21-MVVH-31		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-32		C-91	ISI	-	-	-	-	-	-
F1.30S	1B21-MVVH-32		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-33		C-91	ISI	-	-	-	-	-	-
F1.30S	1B21-MVVH-33		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-35		C-92	ISI	-	-	-	-	-	-
F1.30S	1B21-MVVH-35		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-36		C-92	ISI	-	-	-	-	-	-
F1.30S	1B21-MVVH-36		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-MVVH-37		C-92	ISI	-	-	-	-	-	-
F1.30S	1B21-MVVH-37		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-10	ISI//	C-81	ISI	-	s	-	-	-	-
F1.30S	1B21-SS-10		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-11		C-81	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-11		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-12		C-80	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-12		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-13		C-80	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-13		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-SS-14		C-80	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-14		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-15		C-83	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-15		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-16		C-83	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-16		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-27-30A		C-87,-85	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-27-30A		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-27-30B		C-87,-85	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-27-30B		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-28		C-85	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-28		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-29		C-87	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-29		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-3	ISI//	C-90,-79	ISI	-	-	-	-	-	s
F1.30S	1B21-SS-3		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-31		C-87	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-31		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-33A		C-86	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-33A		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B21-SS-33B		C-88	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-33B		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-34		C-86	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-34		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-35		C-88	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-35		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-38		C-78	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-38		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-39		C-79	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-39		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-4		C-79	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-4		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-40		C-90	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-40		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-45		C-82	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-45		HYDR SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-46	ISI//	C-82	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-46		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B21-SS-5		C-89,-78	ISI	-	-	-	-	-	-
F1.30S	1B21-SS-5		MECH SNUBBER	AUG	-	-	-	-	-	-
3	B21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B11-A001-S01	ISI//	1B11-SK1	ISI	-	-	-	-	-	s
F1.40	1B11-A001-S01		REACTOR VESSEL	AUG	-	-	-	-	-	-
1	B11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-HA5		A-14A	ISI	-	-	-	-	-	-
F1.40	1B31-HA5		SPRING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-HA6		A-14A	ISI	-	-	-	-	-	-
F1.40	1B31-HA6		SPRING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-HA7		A-14A	ISI	-	-	-	-	-	-
F1.40	1B31-HA7		SPRING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-HB5	ISI//	A-15A	ISI	-	-	-	-	s	-
F1.40	1B31-HB5		SPRING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-HB6	ISI//	A-15A	ISI	-	-	-	-	s	-
F1.40	1B31-HB6		SPRING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-HB7	ISI//	A-15A	ISI	-	-	-	-	s	-
F1.40	1B31-HB7		SPRING	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1C41-A001-S01		1C41-SK2	ISI	-	-	-	-	-	s
F1.40	1C41-A001-S01		TANK	AUG	-	-	-	-	-	-
2	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1C41-C001A-S01		1C41-SK3	ISI	-	-	-	-	-	s
F1.40	1C41-C001A-S01		PUMP	AUG	-	-	-	-	-	-
2	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1C41-C001B-S01		1C41-SK3	ISI	-	-	-	-	-	-
F1.40	1C41-C001B-S01		PUMP	AUG	-	-	-	-	-	-
2	C41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E11-C002A-S01		1E11-SK5	ISI	-	-	-	-	s	-
F1.40	1E11-C002A-S01		PUMP	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-C002B-S01		1E11-SK5	ISI	-	-	-	-	-	-
F1.40	1E11-C002B-S01		PUMP	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-C002C-S01		1E11-SK5	ISI	-	-	-	-	-	-
F1.40	1E11-C002C-S01		PUMP	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-C002D-S01		1E11-SK5	ISI	-	-	-	-	-	-
F1.40	1E11-C002D-S01		PUMP	AUG	-	-	-	-	-	-
2	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-D002A-S01		1E11-SK13	ISI	-	-	-	-	s	-
F1.40	1E11-D002A-S01		STRAINER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-D002B-S01		1E11-SK13	ISI	-	-	-	-	-	-
F1.40	1E11-D002B-S01		STRAINER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-D003A-S01		1E11-SK13	ISI	-	-	-	-	s	-
F1.40	1E11-D003A-S01		STRAINER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E11-D003B-S01		1E11-SK13	ISI	-	-	-	-	-	-
F1.40	1E11-D003B-S01		STRAINER	AUG	-	-	-	-	-	-
3	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-C001A-S01		1E21-SK6	ISI	-	-	-	-	s	-
F1.40	1E21-C001A-S01		PUMP	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E21-C001B-S01		1E21-SK6	ISI	-	-	-	-	-	-
F1.40	1E21-C001B-S01		PUMP	AUG	-	-	-	-	-	-
2	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1E41-C001-S01		1E41-SK7	ISI	-	-	-	-	S	-
F1.40	1E41-C001-S01		PUMP	AUG	-	-	-	-	-	-
2	E41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1E51-C001-S01		1E51-SK8	ISI	-	-	-	-	S	-
F1.40	1E51-C001-S01		PUMP	AUG	-	-	-	-	-	-
2	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-C001A-S01		1P41-SK14	ISI	-	-	-	-	S	-
F1.40	1P41-C001A-S01		PUMP	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-C001A-S02	ISI/VT/NMP-ES-024-203	1P41-SK14	ISI	S	-	-	-	-	-
F1.40	1P41-C001A-S02		PUMP	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-C001B-S01		1P41-SK14	ISI	-	-	-	-	-	-
F1.40	1P41-C001B-S01		PUMP	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-C001B-S02		1P41-SK14	ISI	-	-	-	-	-	-
F1.40	1P41-C001B-S02		PUMP	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-C001C-S01		1P41-SK14	ISI	-	-	-	-	-	-
F1.40	1P41-C001C-S01		PUMP	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-C001C-S02		1P41-SK14	ISI	-	-	-	-	-	-
F1.40	1P41-C001C-S02		PUMP	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-C001D-S01		1P41-SK14	ISI	-	-	-	-	-	-
F1.40	1P41-C001D-S01		PUMP	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-C001D-S02		1P41-SK14	ISI	-	-	-	-	-	-
F1.40	1P41-C001D-S02		PUMP	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1P41-D103A-S01		1P41-SK15	ISI	-	-	-	-	S	-
F1.40	1P41-D103A-S01		STRAINER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1P41-D103B-S01		1P41-SK15	ISI	-	-	-	-	-	-
F1.40	1P41-D103B-S01		STRAINER	AUG	-	-	-	-	-	-
3	P41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T41-B002A-S01		1T41-SK16	ISI	-	-	-	-	S	-
F1.40	1T41-B002A-S01		RHR & CS PMP RM CLR	AUG	-	-	-	-	-	-
3	T41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T41-B002B-S01		1T41-SK16	ISI	-	-	-	-	-	-
F1.40	1T41-B002B-S01		RHR & CS PMP RM CLR	AUG	-	-	-	-	-	-
3	T41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T41-B003A-S01		1T41-SK16	ISI	-	-	-	-	S	-
F1.40	1T41-B003A-S01		RHR & CS PMP RM CLR	AUG	-	-	-	-	-	-
3	T41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T41-B003B-S01		1T41-SK16	ISI	-	-	-	-	-	-
F1.40	1T41-B003B-S01		RHR & CS PMP RM CLR	AUG	-	-	-	-	-	-
3	T41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T41-B005A-S01		1T41-SK17	ISI	-	-	-	-	S	-
F1.40	1T41-B005A-S01		HPCI PMP RM CLR	AUG	-	-	-	-	-	-
3	T41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T41-B005B-S01		1T41-SK17	ISI	-	-	-	-	-	-
F1.40	1T41-B005B-S01		HPCI PMP RM CLR	AUG	-	-	-	-	-	-
3	T41			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T47-B007A-S01		1T47-SK09	ISI	-	-	-	-	S	-
F1.40	1T47-B007A-S01		COOLING UNIT	AUG	-	-	-	-	-	-
2	T47			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T47-B007B-S01		1T47-SK09	ISI	-	-	-	-	-	-
F1.40	1T47-B007B-S01		COOLING UNIT	AUG	-	-	-	-	-	-
2	T47			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1T47-B008A-S01		1T47-SK10	ISI	-	-	-	-	S	-
F1.40	1T47-B008A-S01		COOLING UNIT	AUG	-	-	-	-	-	-
2	T47			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T47-B008B-S01		1T47-SK10	ISI	-	-	-	-	-	-
F1.40	1T47-B008B-S01		COOLING UNIT	AUG	-	-	-	-	-	-
2	T47			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T47-B009A-S01		1T47-SK11	ISI	-	-	-	-	S	-
F1.40	1T47-B009A-S01		COOLING UNIT	AUG	-	-	-	-	-	-
2	T47			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1T47-B009B-S01		1T47-SK11	ISI	-	-	-	-	-	-
F1.40	1T47-B009B-S01		COOLING UNIT	AUG	-	-	-	-	-	-
2	T47			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B31-SSA1	ISI//	A-14A	ISI	-	s	-	-	-	-
F1.40S	1B31-SSA1		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSA2	ISI//	A-14A	ISI	-	s	-	-	-	-
F1.40S	1B31-SSA2		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSA3	ISI//	A-14A	ISI	-	s	-	-	-	-
F1.40S	1B31-SSA3		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSA4	ISI//	A-14A	ISI	-	-	-	s	-	-
F1.40S	1B31-SSA4		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSA5	ISI//	A-14A	ISI	-	-	-	s	-	-
F1.40S	1B31-SSA5		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSA6	ISI//	A-14A	ISI	-	-	-	s	-	-
F1.40S	1B31-SSA6		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSB1		A-15A	ISI	-	-	-	-	-	-
F1.40S	1B31-SSB1		MECH SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSB2		A-15A	ISI	-	-	-	-	-	-
F1.40S	1B31-SSB2		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSB3		A-15A	ISI	-	-	-	-	-	-
F1.40S	1B31-SSB3		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSB4		A-15A	ISI	-	-	-	-	-	-
F1.40S	1B31-SSB4		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
F-A	H1 1B31-SSB5		A-15A	ISI	-	-	-	-	-	-
F1.40S	1B31-SSB5		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
F-A	H1 1B31-SSB6		A-15A	ISI	-	-	-	-	-	-
F1.40S	1B31-SSB6		HYDR SNUBBER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

FOURTH INTERVAL VIP-75 AUGMENTED PLAN HATCH UNIT NO. 1

SCOPE

This report describes the revised inspection criteria for stainless steel and dissimilar metal weld piping subject to Generic Letter 88-01, "NRC Position on Intergranular Stress Corrosion Cracking in BWR Austenitic Stainless Steel Piping" requirements based on the revised criteria in BWRVIP-075. Included are new inspection frequencies and new sample expansion criteria. **This document shows exams performed under NUREG-0313 and 3rd Interval exams to satisfy BWRVIP-075. It also shows the 1st outage of the 4th Interval; but, the balance of the 4th Interval exams are not shown. The remaining 4th Interval exams (scheduled for later in the interval) will be scheduled after the results of the 1R22 outage have been evaluated. Based on good 1R22 results (no indications) or bad results (crack-like indications), along with applicable industry issues (if any), the remainder of the examinations will be scheduled appropriately.**

BACKGROUND

Due to extensive Intergranular Stress Corrosion Cracking (IGSCC), much of the stainless steel piping for the HNP-1 Recirculation System, the RHR System, and the RWCU System was overlayed with IGSCC resistant material during the mid-1980's. Each of the remaining welds (where the configuration allowed) was subsequently stress improved to reduce the tensile residual stresses at the weldment inside surface. An inspection program was set up per the requirements Generic Letter 84-11 which was subsequently superseded by Generic Letter 88-01 (GL 88-01), "NRC Position on Intergranular Stress Corrosion Cracking in BWR Austenitic Stainless Steel Piping" and NUREG-0313, "Technical Report on Material Selection and Processing Guidelines for BWR Coolant Pressure Boundary Piping". Inspection Categories were established based on GL 88-01/NUREG-0313 requirements. GL 88-01/NUREG-0313 Categories currently applicable to HNP-1 are:

Category A – Welds are made from materials that are resistant to IGSCC due to their metallurgical properties. GL 88-01/NUREG-0313 specifies that 25% of the population be examined every 10 years.

Category C - Welds are made from material that is considered susceptible to IGSCC, but the propensity for IGSCC was mitigated by stress improvement after more than two cycles of operation. GL 88-01/NUREG-0313 specifies that the entire population be examined once every 10 years.

Category E - Welds that have been overlayed with IGSCC resistant material. GL 88-01/NUREG-0313 specifies that the entire population be examined every two refueling outages.

However, because of improved water chemistry that significantly reduced the propensity for initiation and growth of IGSCC, and due to improved examination procedures/techniques for the detection and sizing of IGSCC, new inspection criteria were subsequently proposed in BWRVIP-075 (issued on October 27, 1999 for NRC review). Table 1 lists key dates and actions associated with the transition from GL 88-01 to BWRVIP-075 requirements at HNP-1.

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Table 1	
Transition From GL-88-01 To Bwrvip-05	
DATE	ITEM
6/23/2000	HNP requested the use of BWRVIP-075 in lieu of GL 88-01 and requested an alternative to Code requirements to allow reduced B-J and B-F Code requirements.
10/10/2000	The NRC issued a safety evaluation for the HNP request allowing HNP a one cycle use of BWRVIP-075 in lieu of GL 88-01 and Code relaxation from B-F (100%) and B-J (25%) provided that surface examinations were performed.
10/2000	The NRC issued a safety evaluation (with caveats) allowing the use of BWRVIP-075 in lieu of the existing GL 88-01 requirements. The NRC noted that the safety evaluation could be used as a reference for a 10CFR50.55a alternative to reduce Code exams for welds in GL 88-01 scope.
6/2001	Structural Integrity Associates issues "Weld Prioritization for Adoption of BWRVIP-075 at Edwin I. Hatch Unit 1 and Unit 2".
5/2002	The NRC issues the final BWRVIP-075 safety evaluation after evaluation of BWRVIP responses to open items.
4/2003	The BWRVIP issues the initial draft A-Version of BWRVIP-075 to incorporate the NRC's comments in their final safety evaluation.
2004	SNC seeks approval in RR-39 to reduce the Code exams associated with this piping.
7/2005	NRC grants approval of RR-39.
12/2006	NRC grants approval of ISI-ALT-3 to continue during the 4 th Interval with the alternatives originally set forth in RR-39.

VIP-75 IMPLEMENTATION

The NRC issued a final Safety Evaluation for BWRVIP-075 dated May 14, 2002 with several comments. Subsequently, the BWRVIP developed a draft version of BWRVIP-075-A to incorporate the NRC comments.

This bases document is based on the NRC's final Safety Evaluation for BWRVIP-075 dated May 14, 2002 with the draft version of BWRVIP-075-A used for clarification purposes.

The sample size required to be examined by BWRVIP-075 is smaller than that required by ASME Section XI. Therefore, Relief Request RR-39 for the 3rd Interval (approved by the NRC) and ISI-ALT-3 for the 4th Interval were submitted to the NRC. These requests allow the use of the new sample sizes specified in BWRVIP-075 as an alternative to 10 CFR 50.55a requirements for Category B-J and B-F welds.

Any examination performed during the 3rd or 4th Interval may be credited toward the percentage requirements as long as the VIP-75 pre-requisites were met, prior to the examination.

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Note:

The associated ScheduleWorks Tables have been assigned an Item Number equivalent to the Table Numbers listed in the below write-up to allow comparison of the written text to the ScheduleWorks Tables.

For example, Table 2 in the below written text and tables lists 19 Category A welds. There is an equivalent Item Number designated as “Table 2” in the ScheduleWorks Tables with 19 welds.

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CATEGORY A WELDS

The materials in Category A are resistant to IGSCC due their metallurgical properties. As such, the current required inspection scope and frequency per NUREG-0313 and GL 88-01 is 25% of the population every 10 years.

CATEGORY A VIP-75 WELD SELECTION

The new examination frequency for Category A welds is a function of their ASME Section XI Code classification, as follows:

B-F Scope (N/A to Hatch 1)

Category A welds, that are currently classified as Section XI Category B-F welds, will be examined at a rate of 25% over ten years. For welds that are protected by effective HWC, the BWRVIP proposed that the sample size for Category B-F welds is 10%. Fifty percent (50%) of these examinations must be completed during the first six years of the ten-year interval. *Hatch 1 does not have any welds with this designation.*

B-J Scope

The BWRVIP proposed that welds that are currently classified as Category A and are classified as Section XI Category B-J per Section XI be examined at a rate of 10% over ten years. Fifty percent (50%) of these examinations must be completed during the first six years of the ten-year interval.

The NRC Final SE dated May 14, 2002, concluded that in order to reduce the inspection sample size to less than 25 percent, the piping needs the application of two mitigation methods. The resistant material is one mitigating measure and processes such as IHSI, MSIP, Heat Sink Welding, or HWC are a second mitigating measure. In the response to this open item, by letter dated August 28, 2001, the BWRVIP concluded that, while they did not agree with the need to apply a second mitigator, they would agree with the staff position to resolve the open item. Therefore, welds with resistant material and an effective second mitigating measure are considered to have low likelihood of IGSCC initiation and a sample size of 10% may be used.

The scope consists of the RWCU welds shown in Table 2 and are discussed below.

Table 2 Welds

Table 2 lists 19 ASME Category B-J, NUREG-0313 Category A RWCU welds that are all located in the RWCU discharge line. The scope of these welds extends from the branch connection on the 20" RHR line to the outboard RWCU isolation valves. [Welds downstream of the outboard containment isolation valve are not considered in the GL 88-01 scope because modifications to the valves were made as part of Generic Letter 89-10 actions, to ensure that they can close against full reactor pressure differential pressure in the unlikely event of a break downstream of the valves]. Per the NRC Final SE dated May 14,

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2002, a 25% sample of these welds may be examined every 10 years and if there is effective hydrogen water chemistry (HWC) may further reduce their Category B-J inspection frequency.

As described in Appendix B, HNP-1 has effective hydrogen water protection as measured at the bottom of the reactor. However, each pipe may see different degrees of protection due to its configuration, location, and service. For these 19 welds, noble metal is added periodically (with RWCU running) such that noble metal plates should plate out on each of the 19 welds. Additionally, HNP-1 continuously injects a reduced level of hydrogen with RWCU running; therefore, there should be effective HWC for each of these 19 welds and a 10% sample (or 2 welds) may be examined.

Welds in Table 2 are broken out for documentation purposes by their material type, as follows:

(Note: Weld 1 and 9 were preemptively overlaid).

- There are 13 welds (welds 2 thru 3, 6 thru 10A, 11 thru 13, and 17 thru 19) joining 316 Nuclear Grade (NG) stainless steel material to 316 NG material. Weld filler metal was 308L. Per the NRC Staff Position on Materials found in Generic Letter 88-01 these 14 welds are not considered to be susceptible to IGSCC (See Positions 1 and 2). Additionally, each received an MSIP treatment and baseline examination in 1993. They were subsequently re-examined in 1994 and later.
- There are 4 welds (welds 4, 5, 14, and 20) joining 316 NG material piping to IGSCC resistant cast stainless valves. Per the NRC Staff Position on Inspection Schedules found in Generic Letter 88-01 welds joining resistant material to pumps and valves will be considered to be resistant material and included in Category A. (See Position 2). Additionally, each received an MSIP treatment and baseline examination in 1993. They were subsequently re-examined in 1994 and later.
- There are two welds located in containment penetration X-14 that are inaccessible for stress improvement purposes and are inaccessible for examination. They are weld 1G31-1RWCUM-6-D-15B which joins IGSCC resistant 304L piping to 304L piping and weld 1G31-1RWCUM-6-D-15C which joins the penetration flued head (that has corrosion resistant 308L cladding on the ID) to corrosion resistant 304L pipe. Per the NRC Staff Position on Materials found in Generic Letter 88-01 these welds are not considered to be susceptible to IGSCC. (See Position 3).

In order to use the 10% sample size, the two welds to be examined should be selected using risk insights. Per VIP-75, piping that performs an ECCS function, or performs a containment function and is located between the drywell and the outboard isolation valve, should have higher priority for examination over that piping which functions only as the reactor coolant pressure boundary. During the selection of locations for inspection, consideration should be given regarding locations where IGSCC could be accelerated by crevice corrosion or thermal fatigue. In addition, locations having attributes that would promote IGSCC should have higher priority for inspection. The attributes that may be

FOURTH INTERVAL VIP-75 AUGMENTED PLAN HATCH UNIT NO. 1

considered include: high carbon or low ferrite content, crevice or stagnant flow condition, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses.

None of the 19 welds have an ECCS function; however, RWCU welds 17, 18, 19, and 20 are located between the drywell and the outboard isolation valve.

In the report, "Weld Prioritization for Adoption of BWRVIP-75 at Edwin I. Hatch Unit 1 and Unit 2", dated June 2001, Structural Integrity Associates (SIA) stated in Section 3.0, Weld Selection Process that, "consideration should be given to those locations having attributes that would promote IGSCC, or where IGSCC could be accelerated by crevice corrosion or thermal fatigue. These attributes include: high carbon or low ferrite content, crevice or stagnant flow conditions, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses. This prioritization is shown in column 4 (SIA Priority) of Table 2 and the highest priority welds are those with the lowest priority number. As shown in Table 2, welds 4, 5, 14, and 20 were assigned a Priority 2, with the remainder assigned a Priority 4.

Welds 4, 5, and 14 were examined during 1R21 (2/2004), which exceeded the 10% requirement for the 3rd Interval.

Weld 20 which is the only weld which has both a high SIA Priority and is located between the drywell wall and the outboard containment isolation valve will be examined during 1R22 (2/2006) for 4th Interval credit. Weld 4, 5, or 14 will be examined later in the 4th Interval to complete the requirements.

CATEGORY A VIP-75 SCOPE EXPANSION

The sample expansion criteria to be used for Category A are similar to those specified in GL 88-01. If one or more welds are determined to be cracked by this examination program, an additional sample of equal size and approximately the same distribution will be examined during the same outage. If cracking is detected in the second sample, 25% of the remaining population will be examined. If additional cracking is detected, the entire Category A population will be examined. The size or distribution of the expanded sample may be altered if technical justification exists. If this option is used, the NRC will be notified when the expanded scope examinations begin.

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CATEGORY C WELDS

Category C welds are made from material that is considered susceptible to IGSCC, but mitigated by stress improvement after more than two cycles of operation. GL 88-01 specifies that the entire population is to be examined once every ten years.

CATEGORY C VIP-75 WELD SELECTION

Category C welds that satisfy the following criteria may be examined at a rate of 25% per ten years. The licensee must ensure that an effective stress improvement was achieved. Additionally, there must have been either:

- a) one examination performed within two cycles of operation after the SI and one additional examination performed, using qualified procedures, with no evidence of cracking, or
- b) a preservice (post-stress improvement) and inservice examination with a qualified procedure with no cracking identified, or
- c) at least one examination performed with a qualified procedure after more than two operating cycles and no cracking detected for welds that were previously stress-improved but did not receive a preservice examination

With effective HWC combined with resistant materials, the scope may be further reduced to 10% of the population.

The scope of welds consists of dissimilar metal welds shown in Table 3 and Table 4 and similar metal welds shown in Table 5 and Table 6. The welds for each of the tables are discussed below.

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Table 3 Welds

Table 3 lists eight dissimilar metal welds. These welds have been evaluated against the VIP-75 criteria pertaining to: (1) effective stress improvement, (2) hydrogen water protection, and (3) pre-requisite examinations using qualified procedures. The evaluations are shown below.

Effective Stress Improvement - Seven of the eight welds received an effective stress improvement treatment in 1993 using the MSIP process. Weld 1E11-1RHR-24A-R-12 received an effective IHSI stress improvement as defined by the parameters in Appendix C.

Hydrogen Water Protection - Hydrogen protection was not credited for any of the eight welds because there is no flow in the area of the welds (see Appendix B).

Pre-requisite Qualified Examinations - Those welds highlighted in yellow satisfy the requirement to perform at least one examination (beyond the baseline performed after the stress improvement) using a “qualified” procedure, as defined in Appendix A. In many cases, multiple examinations were performed. Welds 1E21-1CS-10A-18A, 1E21-1CS-10B-19A, and 1E11-1RHR-24A-R-12 have examination coverage limitations due to weld crown/taper issues, and credit was not taken for these examinations. Issues and actions for each weld is discussed below.

1E21-1CS-10A-18A and 1E21-1CS-10B-19A

Each of these welds has a small weld crown and a significant taper on the safe-end extension side of each weld that interferes with performing the Appendix VIII UT exam. Weld modifications cannot be performed to off-set the effect of the taper (except for a weld overlay). Below is a proposed action plan.

1. Perform ultrasonic exams during 1R22.
2. Using a flaw-tolerance evaluation, evaluate the data to determine if there is reasonable assurance of structural integrity as required by 10 CFR 50.55a(g)(6)(i).
3. Develop a relief request.

1E11-1RHR-24A-R-12

There is a small weld crown and a significant taper on the valve side that interferes with performing the Appendix VIII UT exam. Weld modifications cannot be performed to off-set the effects of the taper (except for a weld overlay); however, grinding off the weld crown may be beneficial. Below is a proposed action plan.

1. Prior to 1R22, obtain minimum wall values for these welds.
2. Take detailed dimensions and grind areas as needed.
3. Perform ultrasonic exams during 1R22.
4. Using a flaw-tolerance evaluation, evaluate the data to determine if there is reasonable assurance of structural integrity as required by 10 CFR 50.55a(g)(6)(i).
5. Develop a relief request.

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Without hydrogen protection, a 25% sample of these welds (or 2 welds) is required every ten years. Per the NRC Final SE dated May 14, 2002, when using the reduced scope, the locations to be examined should be selected using risk insights to select risk significant piping. Risk significant piping is defined as locations with a high consequence of failure and susceptibility to some type of failure mechanism. Generally this includes (1) Reactor Coolant Pressure Boundary (RCPB) piping that supports an ECCS function (mitigation) or (2) performs an outboard containment isolation function between the containment penetration and the outboard isolation valve. Piping that functions only as the RCPB would generally have lower risk.

None of the eight welds in Table 3 have an outboard containment function; however, five welds - 1E11-1RHR-24A-R-12, 1E21-1CS-10A-18A, 1E21-1CS-10A-20A, 1E21-1CS-10B-19A, and 1E21-1CS-10B-21A have ECCS functions.

During the selection of the actual welds for examination, the requirements are to consider locations where IGSCC could be accelerated by crevice corrosion or thermal fatigue. In addition, locations having attributes that would promote IGSCC should have higher priority for inspection. The attributes that may be considered include: high carbon or low ferrite content, crevice or stagnant flow condition, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses. This requirement is implemented using, "Weld Prioritization for Adoption of BWRVIP-75 at Edwin I. Hatch Unit 1 and Unit 2", dated June 2001. Structural Integrity Associates (SIA) stated in Section 3.0, Weld Selection Process that, "consideration should be given to those locations having attributes that would promote IGSCC, or where IGSCC could be accelerated by crevice corrosion or thermal fatigue. These attributes include: high carbon or low ferrite content, crevice or stagnant flow conditions, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses. Each weld in Table 3, except for the CRD cap weld (1C11-1CRD-3-R-18A which is outside the scope of GL-88-01/NUREG-0313 due to its small diameter) has an SIA Priority of 1, which indicates that IGSCC growth/initiation should be about the same. Therefore, any of the 5 welds in Table 3 having an ECCS function may be selected.

Summary

Welds 1E21-1CS-10A-18A, 1E21-1CS-10B-19A, and 1E11-1RHR-24A-R-12 will be re-examined during 1R22 to satisfy pre-requisite conditions.

ECCS welds 1E21-1CS-10A-20A (SIA Priority 1) and 1E21-1CS-10B-21A (Priority 1) will be examined during 1R22 to complete the 25% sample criteria for the 3rd Interval. These welds are highlighted in Red.

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Table 4 Welds

Table 4 lists ten dissimilar metal welds. These ten welds have been evaluated against the VIP-75 criteria pertaining to: (1) effective stress improvement, (2) hydrogen water protection, and (3) pre-requisite examinations using qualified procedures. The evaluations are shown below.

Effective Stress Improvement – Each of the ten welds received an effective IHSI stress improvement as defined by the parameters in Appendix C.

Hydrogen Water Protection - Hydrogen protection was credited each of the ten welds (see Appendix B).

Pre-requisite Qualified Examinations - Those welds highlighted in yellow satisfy the requirement to perform at least one examination (beyond the baseline performed after the stress improvement) using a “qualified” procedure, as defined in Appendix A. In many cases, multiple examinations were performed. 1B31-1RC-12AR-J-5, 1B31-1RC-12BR-A-5, 1B31-1RC-12BR-B-5, 1B31-1RC-28A-1, and 1B31-1RC-28B-1 have examination data issues such that credit has not yet been taken for previous examinations. Each of these welds will be re-examined in 1R22. After the 1R22 exams, if it was determined that there no previous exam issues with a weld, then the previous data for the weld may be used to satisfy the pre-requisites.

With hydrogen protection, a 10% sample of the ten welds (or 1 weld) is required to be examined every ten years. Per the NRC Final SE dated May 14, 2002, when using the reduced scope, the locations to be examined should be selected using risk insights to select risk significant piping. Risk significant piping is defined as locations with a high consequence of failure and susceptibility to some type of failure mechanism. Generally this includes (1) Reactor Coolant Pressure Boundary (RCPB) piping that supports an ECCS function (mitigation) or (2) performs an outboard containment isolation function between the containment penetration and the outboard isolation valve. Piping that functions only as the RCPB would generally have lower risk.

None of the ten welds have an outboard containment function; however, all welds except 1B31-1RC-28A-1, and 1B31-1RC-28B-1 have ECCS functions.

During the selection of the actual welds for examination, the requirements are to consider locations where IGSCC could be accelerated by crevice corrosion or thermal fatigue. In addition, locations having attributes that would promote IGSCC should have higher priority for inspection. The attributes that may be considered include: high carbon or low ferrite content, crevice or stagnant flow condition, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses. This requirement is implemented using, “Weld Prioritization for Adoption of BWRVIP-75 at Edwin I. Hatch Unit 1 and Unit 2”, dated June 2001. Structural Integrity Associates (SIA) stated in Section 3.0, Weld Selection Process that, “consideration should be given to those locations having attributes that would promote IGSCC, or where IGSCC could be accelerated by crevice corrosion or thermal fatigue. These attributes include: high carbon or low ferrite content, crevice or stagnant

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flow conditions, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses. Each weld in Table 4 has an SIA Priority of 1, which indicates that IGSCC growth/initiation should be about the same. Therefore, any of the 8 welds in Table 4 having an ECCS function may be selected.

Summary

After the 1R22 outage examinations, one of the ECCS welds will be designated as meeting the 10% examination for the 3rd Interval. Similarly an ECCS weld will be selected for the 4th Interval.

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Table 5 Welds

Table 5 lists ten similar metal welds. These welds have been evaluated against the VIP-75 criteria pertaining to: (1) effective stress improvement, (2) hydrogen water protection, and (3) pre-requisite examinations using qualified procedures. The evaluations are shown below.

Effective Stress Improvement - Four of the seven welds received an effective stress improvement treatment in 1993 using the MSIP process. Welds 1B31-1RC-4B-1A, 1B31-1RC-4B-10A, and 1E11-1RHR-20B-D-2 received an effective IHSI stress improvement as defined by the parameters in Appendix C.

Hydrogen Water Protection - Hydrogen protection was not credited for any of the seven welds because there is no flow in the area of the welds (see Appendix B).

Pre-requisite Qualified Examinations - Those welds highlighted in yellow satisfy the requirement to perform at least one examination (beyond the baseline performed after the stress improvement) using a “qualified” procedure, as defined in Appendix A. In many cases, multiple examinations were performed.

Without hydrogen protection, a 25% sample of the ten welds (or 3 welds) is required to be examined every ten years. Per the NRC Final SE dated May 14, 2002, when using the reduced scope, the locations to be examined should be selected using risk insights to select risk significant piping. Risk significant piping is defined as locations with a high consequence of failure and susceptibility to some type of failure mechanism. Generally this includes (1) Reactor Coolant Pressure Boundary (RCPB) piping that supports an ECCS function (mitigation) or (2) performs an outboard containment isolation function between the containment penetration and the outboard isolation valve. Piping that functions only as the RCPB would generally have lower risk.

None of the ten welds have an outboard containment function; however, all of the ten welds except 1B31-1RC-4JP-A-2 and 1B31-1RC-4JP-B-2 have ECCS functions.

During the selection of the actual welds for examination, the requirements are to consider locations where IGSCC could be accelerated by crevice corrosion or thermal fatigue. In addition, locations having attributes that would promote IGSCC should have higher priority for inspection. The attributes that may be considered include: high carbon or low ferrite content, crevice or stagnant flow condition, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses. This requirement is implemented using, “Weld Prioritization for Adoption of BWRVIP-75 at Edwin I. Hatch Unit 1 and Unit 2”, dated June 2001. Structural Integrity Associates (SIA) stated in Section 3.0, Weld Selection Process that, “consideration should be given to those locations having attributes that would promote IGSCC, or where IGSCC could be accelerated by crevice corrosion or thermal fatigue. These attributes include: high carbon or low ferrite content, crevice or stagnant flow conditions, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses. Each weld in Table 5 has an SIA Priority of 4, which indicates that

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IGSCC growth/initiation should be about the same. Therefore, any of the 8 welds in Table 5 having an ECCS function may be selected.

Summary

Each weld in this table has an SIA Priority of 4; therefore, any of the welds having an ECCS function may be selected.

Welds 1B31-1RC-4B-10A, 1E11-1RHR-20B-D-2 and 1E21-1CS-10B-20A will be examined during 1R22 to meet the 25% sample criteria for the 3rd Interval. These welds are highlighted in Red. Weld 1E21-1CS-10A-19A will also be examined in 1R22 as part of the 4th Interval requirements. This weld is highlighted in Green.

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Table 6 Welds

Table 6 lists fifty-four similar metal welds. These welds have been evaluated against the VIP-75 criteria pertaining to: (1) effective stress improvement, (2) hydrogen water protection, and (3) pre-requisite examinations using qualified procedures. The evaluations are shown below.

Effective Stress Improvement – All fifty-four of the welds received an effective IHSI stress improvement as defined by the parameters in Appendix C.

Hydrogen Water Protection - Hydrogen protection was credited for all of these welds (see Appendix B).

Pre-requisite Qualified Examinations - Those welds highlighted in yellow satisfy the requirement to perform at least one examination (beyond the baseline performed after the stress improvement) using a “qualified” procedure, as defined in Appendix A. In many cases, multiple examinations were performed.

With hydrogen protection, a 10% sample of the 54 welds (or 6 welds) is required to be examined every ten years. Per the NRC Final SE dated May 14, 2002, when using the reduced scope, the locations to be examined should be selected using risk insights to select risk significant piping. Risk significant piping is defined as locations with a high consequence of failure and susceptibility to some type of failure mechanism. Generally this includes (1) Reactor Coolant Pressure Boundary (RCPB) piping that supports an ECCS function (mitigation) or (2) performs an outboard containment isolation function between the containment penetration and the outboard isolation valve. Piping that functions only as the RCPB would generally have lower risk. During the selection of locations for inspection, consideration should be given regarding locations where IGSCC could be accelerated by crevice corrosion or thermal fatigue. In addition, locations having attributes that would promote IGSCC should have higher priority for inspection. The attributes that may be considered include: high carbon or low ferrite content, crevice or stagnant flow condition, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses.

During the selection of the actual welds for examination, the requirements are to consider locations where IGSCC could be accelerated by crevice corrosion or thermal fatigue. In addition, locations having attributes that would promote IGSCC should have higher priority for inspection. The attributes that may be considered include: high carbon or low ferrite content, crevice or stagnant flow condition, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses. This requirement is implemented using, “Weld Prioritization for Adoption of BWRVIP-75 at Edwin I. Hatch Unit 1 and Unit 2”, dated June 2001. Structural Integrity Associates (SIA) stated in Section 3.0, Weld Selection Process that, “consideration should be given to those locations having attributes that would promote IGSCC, or where IGSCC could be accelerated by crevice corrosion or thermal fatigue. These attributes include: high carbon or low ferrite content, crevice or stagnant flow conditions, evidence of weld repair, surface cold work, and high fit-up, residual and operating stresses.

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Summary

ECCS welds 1B31-1RC-28A-13 (SIA Priority 2), 1B31-1RC-28A-16 (SIA Priority 2), 1B31-1RC-28A-17 (SIA Priority 2), and 1B31-1RC-12AR-22AM-3 (SIA Priority 2) were examined during 1R17 for 3rd Interval credit.

ECCS welds 1B31-1RC-12BR-E-1 (SIA Priority 3) and 1B31-1RC-28B-17 (SIA Priority 2) will be examined during 1R22 to complete the 3rd Interval requirements. These welds are highlighted in Red.

ECCS weld 1B31-1RC-12BR-A-1 (SIA Priority 4) and containment isolation weld 1G31-1RWCUM-6-D-16 (SIA Priority 2) will be examined during 1R22 for 4th Interval credit. These welds are highlighted in Green.

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CATEGORY E WELDS

Category E welds are those welds with a full-structural overlay. GL 88-01 specifies that the entire population is to be examined once every two refueling cycles.

New Category E Examination Frequency

To use the BWRVIP-075 reduced inspection criteria, the licensee must first ensure that the weld received a post overlay inspection and inservice examination with a “qualified” procedure (three party agreement or Appendix VIII).

If the above requirements are met, the BWRVIP-075 reduced inspection criteria of 25% of the population may be used. With effective HWC, the scope may be further reduced to 10% of the population. Table 7 lists the examination requirements for those overlays with effective hydrogen water protection per Appendix B. Table 8 lists the examination requirements for those overlays *without* effective hydrogen water protection per Appendix B. The weld in each of these tables are discussed below:

Table 7

Table 7 lists forty-eight welds with overlays. These welds have been evaluated against the VIP-75 criteria pertaining to: (1) pre-requisite examinations using qualified procedures and (2) hydrogen water protection. The evaluations are shown below.

Pre-requisite Qualified Examinations – Initial weld overlays were applied in 1982 and in 1984. These overlays were resurfaced in 1986. Examinations performed after the 1986 resurfacing are considered to be qualified examinations (shown in yellow in Table 7) based on the following:

- The 1986 resurfacing provided a surface condition acceptable for current PDI examinations.
- The techniques used are essentially the same techniques as currently used for PDI examinations.

Hydrogen Water Protection - Hydrogen protection was credited for all of these overlays (see Appendix B).

Summary

A 10% sample of the 48 welds (or 5 welds) is required to be examined each 10-year interval, with 50% examined within the first six years of the interval. Five of the welds (shown in Red in Table 7) were examined in 1999 (1R18) and satisfied this requirement.

Three welds (60% of the population shown in Green) will be examined during 1R22 for 4th Interval credit.

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Table 8

Table 8 lists six welds with overlays. These welds have been evaluated against the VIP-75 criteria pertaining to: (1) pre-requisite examinations using qualified procedures and (2) hydrogen water protection. The evaluations are shown below.

Pre-requisite Qualified Examinations – Initial weld overlays were applied in 1982 and in 1984. These overlays were resurfaced in 1986. Examinations performed after the 1986 resurfacing are considered to be qualified examinations (shown in yellow in Table 8) based on the following:

- The 1986 resurfacing provided a surface condition acceptable for current PDI examinations.
- The techniques used are essentially the same techniques as currently used for PDI examinations.

Hydrogen Water Protection - Hydrogen protection was not credited for these overlays (see Appendix B).

Summary

A 25% sample of the six welds (or 2 welds) is required to be examined each 10-year interval with 50% examined within the first six years of the interval. One of the welds (shown in Red in Table 8) was examined in 1999 (1R18) and one will be examined in 1R22 to satisfy this requirement.

One weld (shown in Green) will be examined during 1R22 for 4th Interval credit.

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ADDITIONAL WELDS

There are two welds not previously evaluated - 1B31-1RC-28A-8BC and 1B31-1RC-28B-9BC. These are the welds joining the barrel of 4" Long Weld Neck Flanges to the 28" Recirculation Pipe (See S-15251). Pipe Specification DCA would apply to this piping. Per A-11000, flanges for 3-1/2" piping and larger are 900# flanges. While the manufacturer of the HNP-1 flange is undetermined, all 900# stainless steel flanges should be relatively similar. A 4" nominal 900# Texas Flange has a 4" bore and the OD of the barrel is 6.25". The length of the flange is 12". This appears to be the same as found at HNP-1. Branch connection fittings (e.g., sweepolet) were not used for these welds. Instead, a "set on" configuration or "set in" configuration was used.

Because these configurations have less weld volume, thus less heat input; therefore, there should have been less sensitization and less residual stresses than for butt welds; therefore, the potential for IGSCC should be less. Therefore, they were not categorized per GL 88-01/NUREG-0313. Stress improvement was not considered necessary or needed on these welds because of their configuration. and they have not been examined in the past.

If the configuration is "set-on" such as shown in Figure IWB-2500-10 of Section XI, meaningful UT examinations are not practical because the weld is located on top of the 28" pipe. A surface examination is the only practical examination for this configuration.

If the configuration is "set-in" such as shown in Figure IWB-2500-11 of Section XI, one-sided UT examinations can be performed during from the 28" pipe.

These welds will be examined during 1R22 with the methodology determined by the Level III.

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**TABLE 2
GL 88-01 CATEGORY A RWCUM WELDS – CODE CATEGEORY B-J WELDS
(All Welds Received an MSIP Treatment Except the Two Welds in the Penetration and there is hydrogen protection)
10% Sample Of 19 Welds In This Population (2 Welds)**

				INTERVAL 3							INTERVAL 4
	Effective H ₂ Chemistry?	SIA Priority	ECCS or CIV	PERIOD 1			PERIOD 2		PERIOD 3		
				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
1. 1G31-1RWCUM-6-D-2	YES	4	NO		V						
2. 1G31-1RWCUM-6-D-3	YES	4	NO								
3. 1G31-1RWCUM-6-D-4	YES	2	NO						V&S		
4. 1G31-1RWCUM-6-D-5	YES	2	NO		V&S				V&S		
5. 1G31-1RWCUM-6-D-6	YES	4	NO								
6. 1G31-1RWCUM-6-D-7	YES	4	NO								
7. 1G31-1RWCUM-6-D-8	YES	4	NO				V&S				
8. 1G31-1RWCUM-6-D-10	YES	4	NO				V&S				
9. 1G31-1RWCUM-6-D-10A	YES	4	NO								
10.1G31-1RWCUM-6-D-11	YES	4	NO								
11.1G31-1RWCUM-6-D-12	YES	4	NO								
12.1G31-1RWCUM-6-D-13	YES	4	NO								
13.1G31-1RWCUM-6-D-14	YES	2	NO						V&S		
14.1G31-1RWCUM-6-D-15B (304L pipe to 304L pipe in Penetration)	YES	4	NO								
15.1G31-1RWCUM-6-D-15C (Flued head with corrosion resistant 308L cladding to 304L pipe in Penetration)	YES	4	NO								
16.1G31-1RWCUM-6-D-17	YES	4	YES								
17.1G31-1RWCUM-6-D-18	YES	4	YES								
18.1G31-1RWCUM-6-D-19	YES	4	YES								
19.1G31-1RWCUM-6-D-20	YES	2	YES								VOL



Weld examination credited for 3rd Interval
Weld examination credited for 4th Interval

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TABLE 3 GL 88-01 CATEGORY C WELD DISSIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT WITHOUT EFFECTIVE HYROGEN WATER CHEMISTRY 25% Sample Of Eight Welds In This Population After One Qualified Weld Examinations (2 Welds)													
Cat C (B-F)	Exam Issue?	Crown or Taper ?	Repaired ?	E C S	2 nd Interval	1 st Period 3 rd Interval			2 nd Period 3 rd Interval		3 rd Period 3 rd Interval		4/1/1 1R22 2/06
						3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	
1. 1B31-1RC-4JP-A-1 MSIP 1993 SIA Priority 1	NO	NO	YES	N	(1993B) UT-H-409/07 (1994) UT-H-409/08			UT-H-409					
2. 1B31-1RC-4JP-B-1 MSIP 1993 SIA Priority 1	NO	NO	YES	N	(1993B) UT-H-409/07 (1994) UT-H-409/08						ES- MISN-H- 409 Version 1		
3. 1C11-1CRD-3-R-18A MSIP 1993 Not Categorized by SIA	NO	NO		N	(1993B) GE-UT-208/1 UT-H-409/7 (1994) UT-HAT- 208V0/00 UT-H-409/8								
4. 1E11-1RHR-24A-R-12 IHSI 1986 04800-2183 SIA Priority 1	YES	YES		YES	86B 88 (1990) UT-H-409/6 GE-UT-200/0 (1991) UT-H-810/1 (1994) UT-HAT- 208V0/00 UT-H-409/8 Man Pickup							VOL	

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**TABLE 3
GL 88-01 CATEGORY C WELD DISSIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITHOUT EFFECTIVE HYDROGEN WATER CHEMISTRY
25% Sample Of Eight Welds In This Population After One Qualified Weld Examinations (2 Welds)**

Cat C (B-F)	Exam Issue?	Crown or Taper ?	Repaired ?	E C S	2 nd Interval	1 st Period 3 rd Interval			2 nd Period 3 rd Interval		3 rd Period 3 rd Interval		4/1/1 1R22 2/06
						3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	
5. 1E21-1CS-10A-18A MSIP 1993 SIA Priority 1	YES	YES		YES	(1993B) GE-UT-208/1 UT-H-409/7 (1994) UT-HAT-208V0/00 UT-H-409/8							VOL	
6. 1E21-1CS-10A-20A MSIP 1993 SIA Priority 1	NO	NO		YES	(1993B) GE-UT-209/1 (1994) UT-HAT-209V0/00							VOL	
7. 1E21-1CS-10B-19A MSIP 1993 SIA Priority 1	YES	YES		YES	(1993B) GE-UT-208/1 UT-H-409/7 (1994) UT-HAT-208V0/00 UT-H-409/8							VOL	
8. 1E21-1CS-10B-21A MSIP 1993 SIA Priority 1	NO	NO		YES	(1993B) GE-UT-209/1 (1994) UT-HAT-209V0/00							VOL	

- Weld examination satisfied the requirement for a “qualified” examination prior to using the VIP-75 reduced examination scope.
- Weld examination credited for 3rd Interval
- Weld examination credited for 4th Interval
- Weld examination does not satisfy the requirement for a “qualified” examination because of the weld contour issues existing during the exams.

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**TABLE 4
GL 88-01 CATEGORY C DISSIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITH EFFECTIVE HYDROGEN WATER CHEMISTRY
10% Sample Of Ten Welds In This Population After One Qualified Weld Examinations (1 Weld)**

	Prev. Exam Issue?	Crown or Taper	R e p a i r	E C C	2 nd Interval										4/1/1 1R22 2/06
					P1	P2	P3	3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	
1. 1B31-1RC-12AR-F-5 IHSI 1986 04800-2206 SIA Priority 1	NO	NO	YES	YES	86B 87 88	1990 (1991) UT-H-810/1	-		UT-HAT- 225DV2						
2. 1B31-1RC-12AR-G-5 IHSI 1986 04800-2220 SIA Priority 1	NO	NO	YES	YES	86B 88	91	(1993) GE-UT-209/1		UT-HAT- 225DV2						
									UT-H-409 Man Pick						
3. 1B31-1RC-12AR-H-5 IHSI 1986 04800-2261 SIA Priority 1	NO	NO	YES	YES	86B 88	91	(1993) GE-UT-209/1		UT-HAT- 225DV2						
							(1994) UT-HAT- 209V0/00		UT-H-409 Man Pick						
4. 1B31-1RC-12AR-J-5 IHSI 1986 04800-2300 SIA Priority 1	YES	NO	NO	YES	86B 87 88	-	(1993) GE-UT-209/1		UT-HAT- 225DV2					VOL	
							(1994) UT-HAT- 209V0/00								
5. 1B31-1RC-12AR-K-5 IHSI 1986 04800-2338 SIA Priority 1	NO	NO	NO	YES	86B 87 88	(1990) UT-H-409/6	-		UT-H-409						
6. 1B31-1RC-12BR-A-5 IHSI 1986 04800-2559 SIA Priority 1	YES	NO	YES	YES	86B 87 88	(1990) UT-H-409/6	-							VOL	

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HATCH UNIT NO. 1**

**TABLE 4
GL 88-01 CATEGORY C DISSIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITH EFFECTIVE HYDROGEN WATER CHEMISTRY
10% Sample Of Ten Welds In This Population After One Qualified Weld Examinations (1 Weld)**

	Prev. Exam Issue?	Crown or Taper	R e p a i r	E C C	2 nd Interval										
					P1	P2	P3	3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
7. 1B31-1RC-12BR-B-5 IHSI 1986 04800-2575 SIA Priority 1	YES	NO	NO	YES	86B 87 88	(1990) UT-H-409/6	-							VOL	
8. 1B31-1RC-12BR-D-5 IHSI 1986 04800-2603 SIA Priority 1	NO	NO	YES	YES	86B 88	91	(1993) GE-UT-209/1 (1994) UT-HAT- 209V0/00		UT-HAT- 225DV2						
9. 1B31-1RC-28A-1 IHSI 1986 04800-1736 SIA Priority 1	YES	NO	NO	NO	86B 87	(1990) UT-H-409/6 (1991) UT-H-810/1 UT-H-409/7 Man Pick	-							VOL	
10. 1B31-1RC-28B-1 IHSI 1986 04800-2016 SIA Priority 1	YES	NO	NO	NO	86B 87	(1990) UT-H-409/6 (1991) UT-H-810/1	-							VOL	



Weld examination satisfied the requirement for a “qualified” examination prior to using the VIP-75 reduced examination scope.

Weld examination credited for 3rd Interval

Weld examination credited for 4th Interval

Weld examination may not satisfy the requirement for a “qualified” examination because of issues with data. After the 1R22 exams if it was determined that there no previous exam issues then the previous data may be used.

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

TABLE 5
GL 88-01 CATEGORY C SIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
***WITHOUT* EFFECTIVE HWC**
25% Sample Of Ten Welds In This Population After One Qualified Weld Examinations (3 Welds)

			P1	P2	P3	PERIOD 1			PERIOD 2		PERIOD 3		
	SIA Priority	ECCS				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
1. 1B31-1RC-4A-1A IHSI-1986 04800-1780 Treated with 28A-12BC	4	YES	86B (1987) UT-H-401/6				UT-H-402						
2. 1B31-1RC-4A-10A IHSI-86 04800-2451 Treated with 28A-15BC-1	4	YES	86B (1987) UT-H-401/6				UT-H-402					VOL	
3. 1B31-1RC-4B-1A IHSI-1986 04800-1780 Treated with 28B-12BC	4	YES	86B (1988) UT-H-401/6	-	(1994) UT-H-400/12								
4. 1B31-1RC-4B-10A IHSI-86 04800-2451 Treated with 28B-15BC-1	4	YES	86B (1988) UT-H-401/6	-	(1994) UT-H-400/12								
5. 1B31-1RC-4JP-A-2 MSIP-93	4	NO	NA	NA	(1993B) UT-H-400/11 (1994) UT-H-400/12			UT-H-402					
6. 1B31-1RC-4JP-B-2 MSIP-93	4	NO	NA	NA	(1993B) UT-H-400/11 (1994) UT-H-400/12								
7. 1E11-1RHR-20B-D-2 IHSI-86 04800-2527	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9	-							VOL	
8. 1E21-1CS-10A-19A MSIP-1993	4	YES	NA	NA	(1993B) GE-UT-208/1 (1994) UT-HAT- 208V0/0								VOL

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

TABLE 5
GL 88-01 CATEGORY C SIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
***WITHOUT* EFFECTIVE HWC**
25% Sample Of Ten Welds In This Population After One Qualified Weld Examinations (3 Welds)

			P1	P2	P3	PERIOD 1			PERIOD 2		PERIOD 3		
	SIA Priority	ECCS				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
9. 1E21-1CS-10B-20A MSIP-1993	4	YES	NA	NA	1993B) GE-UT-208/1 (1994) UT-HAT- 208V0/0							VOL	
10. 1E11-1RHR-24A-R-14 IHSI-86 04800-2195	4	YES		(1990) UT-H-400/9 (1991) GE-UT-208/1									

- Weld examination satisfied the requirement for a “qualified” examination prior to using the VIP-75 reduced examination scope.
- Weld examination credited for 3rd Interval
- Weld examination credited for 4th Interval

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

TABLE 6
GL 88-01 CATEGORY C SIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITH EFFECTIVE HWC
10% Sample Of Fifty-Four Welds In This Population After One Qualified Weld Examination (6 Welds)

			P1	P2	P3	PERIOD 1			PERIOD 2		PERIOD 3		
	SIA Prior	ECCS/ CONT				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
1. 1B31-1RC-12AR-G-2 IHSI-86 04800-1563	4	YES	86B (1988) UT-H-400/7	(1990) GE-UT-200/0	(1994) UT-HAT-208V0/0		UT-HAT-225DV2						
2. 1B31-1RC-12AR-J-2 IHSI-86 04800-1151	4	YES	86B 87	(1990) GE-UT-200/0			UT-H-402						
3. 1B31-1RC-12AR-J-4 IHSI-86 04800-1588	4	YES	86B 87	(1990) GE-UT-200/0	(1993) GE-UT-208/1 (1994) UT-HAT-208V0/0		UT-H-402 UT-HAT-225DV2						
4. 1B31-1RC-12AR-K-4 IHSI-86 04800-1600	4	YES	86B 87	(1990) GE-UT-200/0			UT-HAT-225DV2						
5. 1B31-1RC-12BR-A-2 IHSI-86 04800-1893	4	YES	86B 87	(1990) GE-UT-200/0	(1994) UT-HAT-208V0/0								
6. 1B31-1RC-12BR-A-3 IHSI-86 04800-1903	4	YES	86B 87	(1990) GE-UT-200/0	(1994) UT-HAT-208V0/0								
7. 1B31-1RC-12BR-B-2 IHSI-86 04800-1933	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9									
8. 1B31-1RC-12BR-B-4 IHSI-86 04800-1953	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9									
9. 1B31-1RC-12BR-D-4 IHSI-86 04800-1986	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9	(1993) UT-H-400/11 GE-UT-208/1								
10. 1B31-1RC-22AM-1BC-1 IHSI-86 04800-1106	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9			UT-H-402						

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

**TABLE 6
GL 88-01 CATEGORY C SIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITH EFFECTIVE HWC
10% Sample Of Fifty-Four Welds In This Population After One Qualified Weld Examination (6 Welds)**

			P1	P2	P3	PERIOD 1			PERIOD 2		PERIOD 3		
	SIA Prior	ECCS/ CONT				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
11. 1B31-1RC-22AM-1BC-2 IHSI-86 04800-1527	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9			UT-H-402						
12. 1B31-1RC-22AM-3BC-1 IHSI-86 04800-1538	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9			UT-H-402						
13. 1B31-1RC-22AM-3BC-2 IHSI-86 04800-1551	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9			UT-H-402						
14. 1B31-1RC-22BM-1BC-1 IHSI-86 04800-1824	4	YES	86B (1988) UT-H-400/7		(1993) UT-H-400/11								
15. 1B31-1RC-22BM-1BC-2 IHSI-86 04800-1835	4	YES	86B (1988) UT-H-400/7		(1993) UT-H-400/11								
16. 1B31-1RC-22BM-3BC-1 IHSI-86 04800-1870	4	YES	86B (1988) UT-H-400/7		(1993) UT-H-400/11								
17. 1B31-1RC-22BM-3BC-2 IHSI-86 04800-1882	4	YES	86B (1988) UT-H-400/7		(1993) UT-H-400/11								
18. 1B31-1RC-28A-5 IHSI-86 04800-1669	4	NO	86B (1988) UT-H-400/7	(1990) UT-H-400/9									
19. 1B31-1RC-28A-5A IHSI-86 04800-2026	4	NO	86B (1988) UT-H-400/7	(1990) UT-H-400/9									
20. 1B31-1RC-28A-11 IHSI-86 04800-1485	2	NO	86 (1988) UT-H-400/7	(1990) UT-H-400/9 (1991) GE-UT-208/1 UT-H-400/10	(1994) UT-HAT-208V0/0 UT-H-400/12		UT-H-402 UT-HAT-225DV2						

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

**TABLE 6
GL 88-01 CATEGORY C SIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITH EFFECTIVE HWC
10% Sample Of Fifty-Four Welds In This Population After One Qualified Weld Examination (6 Welds)**

			P1	P2	P3	PERIOD 1			PERIOD 2		PERIOD 3		
	SIA Prior	ECCS/ CONT				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
21. 1B31-1RC-28A-11BC 4" Sweepolet IHSI-86 04800-2130	4	YES	86B (1988) UT-H-400/7		(1994) UT-H-400/12		UT-H-402						
22. 1B31-1RC-28A-13 IHSI-86 04800-1507	2	YES	86B (1988) UT-H-400/7	(1990) UT-H-400/9 (1991) GE-UT-212/1	(1994) UT-HAT-208V0/0		UT-HAT-225DV2						
23. 1B31-1RC-28A-14BC 4" Sweepolet IHSI-86 04800-1684	4	YES	86B (1988) UT-H-400/7	(1991) UT-H-400/10	(1994) UT-400/12		UT-H-402						
24. 1B31-1RC-28A-15 IHSI-86 04800-1693	4	YES	86B (1988) UT-H-400/7	(1990) UT-H-400/9 (1991) GE-UT-208/1	(1994) UT-HAT-208V0/0		UT-HAT-225DV2						
25. 1B31-1RC-28A-16 IHSI-86 04800-1082	2	YES	86B (1988) UT-H-400/7	(1990) UT-H-400/9 GE-UT-200/0 (1991) UT-H-400/10	(1994) UT-HAT-208V0/0 UT-H-400/12		UT-H-402 UT-HAT-225DV2						
26. 1B31-1RC-28A-17 IHSI-86 04800-1060	2	YES	86B (1988) UT-H-400/7	(1990) UT-H-400/9 (1991) UT-H-400/10	(1994) UT-H-400/12		UT-H-402						
27. 1B31-1RC-28B-5 IHSI-86 04800-1758	4	NO	86B	(1990) UT-H-400/9 (1991) GE-UT-208/1 UT-H-400/10	(1993) GE-UT-208/1								
28. 1B31-1RC-28B-6 IHSI-86 04800-1770	4	NO	86B (1988) UT-H-400/7	(1990) GE-UT-200/0	(1993) GE-UT-208/1								

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

**TABLE 6
GL 88-01 CATEGORY C SIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITH EFFECTIVE HWC
10% Sample Of Fifty-Four Welds In This Population After One Qualified Weld Examination (6 Welds)**

			P1	P2	P3	PERIOD 1			PERIOD 2		PERIOD 3		
	SIA Prior	ECCS/ CONT				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
29. 1B31-1RC-28B-12 IHSI-86 04800-1181	2	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9 GE-UT-200/0									
30. 1B31-1RC-28B-12BC 4" Sweepolet IHSI-86 04800-1780	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9 (1991) UT-H-400/10	-								
31. 1B31-1RC-28B-15BC 4" Sweepolet IHSI-86 04800-2451	4	YES	86B (1988) UT-H-400/7	-	(1994) UT-H-400/12								
32. 1B31-1RC-28B-17 IHSI-86 04800-1800	2	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9 GE-UT-200/0 (1991) UT-H-400/10	-							VOL	
33. 1G31-1RWCU-6-D-15A IHSI-86 04800-1402	2	NO	86B (1987) UT-H-400/7	-	-		UT-H-402						
34. 1G31-1RWCUM-6-D-16 MSIP 1993 316 NG Piping to Original Flued Head	2	YES	88B	(1991) UT-H-400/10	(1993) UT-H-400/11 (1994) UT-H-400/12								VOL
35. 1B31-1RC-12AR-F-1 IHSI-86 04800-1705	4	YES	86B 87	(1990) GE-UT-200/0 (1991) GE-UT-208/1	-		UT-H-402						

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

TABLE 6
GL 88-01 CATEGORY C SIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITH EFFECTIVE HWC
10% Sample Of Fifty-Four Welds In This Population After One Qualified Weld Examination (6 Welds)

			P1	P2	P3	PERIOD 1			PERIOD 2		PERIOD 3		
	SIA Prior	ECCS/ CONT				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
36. 1B31-1RC-12AR-G-1 IHSI-86 04800-1060, 1118	4	YES	86B (1988) UT-H-400/7	-	(1994) UT-H-400/12		UT-H-402						
37. 1B31-1RC-12AR-H-1 IHSI-86 04800-1578	4	YES	86B (1988) UT-H-400/7	-	(1994) UT-H-400/12		UT-H-402						
38. 1B31-1RC-12AR-J-1 IHSI-86 04800-1138	4	YES	86B (1988) UT-H-400/7	(1991) GE-UT-208/1 UT-H-400/10	-		UT-H-402						
39. 1B31-1RC-12AR-K-1 IHSI-86 04800-1725	4	YES	86B (1988) UT-H-400/7	(1991) GE-UT-208/1	-		UT-H-402						
40. 1B31-1RC-12BR-A-1 IHSI-86 04800-2467	4	YES	86B 87	(1990) GE-UT-200/0	(1994) UT-H-400/12								VOL
41. 1B31-1RC-12BR-B-1 IHSI-86 04800-1923	4	YES	86B (1988) UT-H-400/7	(1991) GE-UT-208/1	-								
42. 1B31-1RC-12BR-C-1 IHSI-86 04800-1965	4	YES	86B (1988) UT-H-400/7	-	(1993) UT-H-400/11								
43. 1B31-1RC-12BR-D-1 IHSI-86 04800-1976	4	YES	86B (1988) UT-H-400/7	-	(1993) UT-H-400/11								
44. 1B31-1RC-12BR-E-1 IHSI-86 04800-1996	3	YES	86B (1988) UT-H-400/7	-	(1993) UT-H-400/11							VOL	
45. 1B31-1RC-22AM-2 IHSI-86 04800-2144	3	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/8 GE-UT-200/0	-		UT-H-402 UT-HAT-225DV2						

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

**TABLE 6
GL 88-01 CATEGORY C SIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITH EFFECTIVE HWC
10% Sample Of Fifty-Four Welds In This Population After One Qualified Weld Examination (6 Welds)**

			P1	P2	P3	PERIOD 1			PERIOD 2		PERIOD 3		
	SIA Prior	ECCS/ CONT				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
46. 1B31-1RC-22AM-3 IHSI-86 04800-2161	2	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/8 GE-UT-200/0	-		UT-H-402						
47. 1B31-1RC-22BM-2 IHSI-86 04800-1846	2	YES	86B (1988) UT-H-400/7	-	(1993) UT-H-400/11								
48. 1B31-1RC-22BM-3 IHSI-86 04800-1858	2	YES	86B (1988) UT-H-400/7	-	(1993) UT-H-400/11								
49. 1B31-1RC-28A-3 IHSI-86 04800-1030	4	NO	86B (1987) UT-H-400/7	(1990) UT-H-400/9 (1991) GE-UT-208/1	(1993) GE-UT-208/1								
50. 1B31-1RC-28A-9 IHSI-86 04800-1070	4	NO	86B (1987) UT-H-400/7	(1990) UT-H-400/9 (1991) GE-UT-208/1 UT-H-400/10	-		UT-H-402 UT-HAT-225DV2						
51. 1B31-1RC-28B-7 IHSI-86 04800-1161	4	NO	86B (1988) UT-H-400/7	(1990) UT-H-400/9 (1991) UT-H-800/02 UT-H-400/10	(1993) GE-UT-208/1								

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

**TABLE 6
GL 88-01 CATEGORY C SIMILAR METAL WELDS WITH EFFECTIVE STRESS IMPROVEMENT
WITH EFFECTIVE HWC
10% Sample Of Fifty-Four Welds In This Population After One Qualified Weld Examination (6 Welds)**

			P1	P2	P3	PERIOD 1			PERIOD 2		PERIOD 3		
	SIA Prior	ECCS/ CONT				3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
52. 1B31-1RC-28B-18 IHSI-86 04800-1811	2	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9 (1991) UT-H-400/10	-								
53. 1E11-1RHR-20B-D-1 IHSI-86 04800-2491	4	YES	86B (1987) UT-H-400/7	(1990) UT-H-400/9	-								
54. 1E11-1RHR-20B-D-1BC IHSI-86 04800-2501	4	NO	86B (1987) UT-H-400/7	(1990) UT-H-400/9									

- Weld examination satisfied the requirement for a “qualified” examination prior to using the VIP-75 reduced examination scope.
- Weld examination credited for 3rd Interval
- Weld examination credited for 4th Interval

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

TABLE 7 GL 88-01 CATEGORY E WELD OVERLAYS <i>WITH</i> EFFECTIVE HWC 10% Sample After Two Qualified Weld Examinations (5 welds)									
	Second Interval Volumetric Exams	PERIOD 1			PERIOD 2 VIP-075 APPROVED		PERIOD 3		
		3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
1. 1B31-1RC-12AR-F-2 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 SMART 1993 SMART 1994 SMART		SMART EXAM						
2. 1B31-1RC-12AR-F-3 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 PSCAN 1993 SMART 1994 SMART		SMART EXAM						
3. 1B31-1RC-12AR-F-4 1986 OVERLAY	1986 Baseline 1987, 1990, 1993 SMART 1994 SMART		SMART EXAM						
4. 1B31-1RC-12AR-G-3 1986 OVERLAY	1986 Baseline 1987, 1988, 1990, 1993 SMART 1994 SMART		SMART EXAM						
5. 1B31-1RC-12AR-G-4 1991 OVERLAY	1991 Baseline 1993 SMART 1994 SMART		SMART EXAM						
6. 1B31-1RC-12AR-H-2 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 SMART 1993 SMART 1994 SMART		SMART EXAM						

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

TABLE 7 GL 88-01 CATEGORY E WELD OVERLAYS WITH EFFECTIVE HWC 10% Sample After Two Qualified Weld Examinations (5 welds)									
	Second Interval Volumetric Exams	PERIOD 1			PERIOD 2 VIP-075 APPROVED		PERIOD 3		
		3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
7. 1B31-1RC-12AR-H-3 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 PSCAN 1993 SMART 1994 SMART		SMART EXAM						
8. 1B31-1RC-12AR-H-4 1986 OVERLAY	1986 Baseline 1987, 1990, 1991 PSCAN 1993 SMART 1994 SMART		SMART EXAM						
9. 1B31-1RC-12AR-J-3 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1988, 1990, 1991 PSCAN 1993 SMART 1994 SMART		SMART EXAM						
10. 1B31-1RC-12AR-K-2 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1988, 1990, 1991 SMART 1993 SMART 1994 SMART		SMART EXAM						
11. 1B31-1RC-12AR-K-3 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1988, 1990, 1991 PSCAN 1993 SMART 1994 SMART		SMART EXAM						
12. 1B31-1RC-12BR-A-4 1991 OVERLAY	1991 Baseline PSCAN 1994 SMART			SMART EXAM					

**FOURTH INTERVAL VIP-75 AUGMENTED PLAN
HATCH UNIT NO. 1**

TABLE 7 GL 88-01 CATEGORY E WELD OVERLAYS WITH EFFECTIVE HWC 10% Sample After Two Qualified Weld Examinations (5 welds)									
	Second Interval Volumetric Exams	PERIOD 1			PERIOD 2 VIP-075 APPROVED		PERIOD 3		
		3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
13. 1B31-1RC-12BR-B-3 1986 OVERLAY	1986 Baseline 1987, 1990, 1991 PSCAN 1994 SMART								
14. 1B31-1RC-12BR-C-2 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1988, 1990, 1991 SMART 1994 SMART								
15. 1B31-1RC-12BR-C-3 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1988, 1990, 1991 PSCAN 1994 SMART								VOL
16. 1B31-1RC-12BR-C-4 1986 OVERLAY	1986 Baseline 1988, 1990, 1991 PSCAN 1994 SMART								
17. 1B31-1RC-12BR-C-5 1988 OVERLAY	1986 Baseline 1988, 1990, 1991 Manual 1994 Manual								
18. 1B31-1RC-12BR-D-2 1986 OVERLAY	1986 Baseline 1987, 1990, 1991 SMART 1993 SMART 1994 SMART								
19. 1B31-1RC-12BR-D-3 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 PSCAN 1993 SMART 1994 SMART								

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TABLE 7 GL 88-01 CATEGORY E WELD OVERLAYS WITH EFFECTIVE HWC 10% Sample After Two Qualified Weld Examinations (5 welds)									
	Second Interval Volumetric Exams	PERIOD 1			PERIOD 2 VIP-075 APPROVED		PERIOD 3		
		3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
20. 1B31-1RC-12BR-E-2 1984 OVERLAY 1986 RESURFACE	1986 Baseline 19887, 1990, 1991 SMART 1994 SMART								
21. 1B31-1RC-12BR-E-3 1984 OVERLAY 1986 RESURFACE	1986 Baseline 19887, 1990, 1991 PSCAN 1994 SMART								
22. 1B31-1RC-12BR-E-4 1991 OVERLAY	1991 Baseline SMART 1994 SMART			SMART EXAM					
23. 1B31-1RC-12BR-E-5 1991 OVERLAY	1991 Baseline Manual 1994 Manual								VOL
24. 1B31-1RC-22AM-1 1982 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 Manual 1994 Manual	Manual							
25. 1B31-1RC-22AM-4 1982 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 Manual 1994 Manual		Manual						
26. 1B31-1RC-22BM-1 1982 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 Manual 1993 Manual 1994 Manual								
27. 1B31-1RC-22BM-4 1982 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 Manual 1993 Manual 1994 Manual		SMART EXAM						VOL

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TABLE 7 GL 88-01 CATEGORY E WELD OVERLAYS WITH EFFECTIVE HWC 10% Sample After Two Qualified Weld Examinations (5 welds)									
	Second Interval Volumetric Exams	PERIOD 1			PERIOD 2 VIP-075 APPROVED		PERIOD 3		
		3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
28. 1B31-1RC-28A-2 1990 OVERLAY	1990 Baseline Manual 1994 SMART			SMART EXAM					
29. 1B31-1RC-28A-4 1990 OVERLAY	1990 Baseline 1991 SMART 1993 SMART 1994 SMART								
30. 1B31-1RC-28A-6 1990 OVERLAY	1990 Baseline SMART 1991 PSCAN 1994 SMART			SMART EXAM					
31. 1B31-1RC-28A-7 1990 OVERLAY	1990 Baseline SMART 1991 SMART 1994 SMART			SMART EXAM					
32. 1B31-1RC-28A-8 1990 OVERLAY	1990 Baseline SMART 1991 SMART 1994 SMART			SMART EXAM					
33. 1B31-1RC-28A-10 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 Manual 1994 Manual		Manual						
34. 1B31-1RC-28A-12 1986 OVERLAY	1986 Baseline 1987, 1990, 1991 PSCAN 1994 SMART		SMART EXAM						
35. 1B31-1RC-28A-14 1990 OVERLAY	1990 Baseline SMART 1991 SMART 1994 SMART		SMART EXAM						
36. 1B31-1RC-28B-2 1991 OVERLAY	1991 Baseline PSCAN 1994 SMART			SMART EXAM					

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TABLE 7 GL 88-01 CATEGORY E WELD OVERLAYS WITH EFFECTIVE HWC 10% Sample After Two Qualified Weld Examinations (5 welds)									
	Second Interval Volumetric Exams	PERIOD 1			PERIOD 2 VIP-075 APPROVED		PERIOD 3		
		3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
37. 1B31-1RC-28B-3 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 PSCAN 1993 SMART 1994 SMART								
38. 1B31-1RC-28B-4 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 PSCAN 1994 SMART								
39. 1B31-1RC-28B-8 1990 OVERLAY	1990 Baseline SMART 1994 SMART			SMART EXAM					
40. 1B31-1RC-28B-9 1990 OVERLAY	1990 Baseline SMART 1991 PSCAN 1994 SMART			SMART EXAM					
41. 1B31-1RC-28B-10 1990 OVERLAY	1990 Baseline Manual 1991 SMART 1993 SMART 1994 SMART								
42. 1B31-1RC-28B-11 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1988, 1990, 1991 Manual 1993 Manual 1994 Manual								
43. 1B31-1RC-28B-13 1990 OVERLAY	1990 Baseline SMART 1991 PSCAN 1994 SMART			SMART EXAM					
44. 1B31-1RC-28B-14 1990 OVERLAY	1990 Baseline SMART 1991 PSCAN 1994 SMART			SMART EXAM					

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TABLE 7 GL 88-01 CATEGORY E WELD OVERLAYS WITH EFFECTIVE HWC 10% Sample After Two Qualified Weld Examinations (5 welds)									
	Second Interval Volumetric Exams	PERIOD 1			PERIOD 2 VIP-075 APPROVED		PERIOD 3		
		3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
45. 1B31-1RC-28B-15 1990 OVERLAY	1990 Baseline SMART 1991 SMART 1993 SMART 1994 SMART								
46. 1B31-1RC-28B-16 1986 OVERLAY	1986 Baseline 1987, 1990, 1991 SMART 1994 SMART								
47. 1G31-1RWCUM-6-D-1 1988 PRE-EMPTIVE OVERLAY	1988 Baseline 1991 Manual 1994 Manual								
48. 1G31-1RWCUM-6-D-9 1988 PRE-EMPTIVE OVERLAY	1988 Baseline 1991 Manual		Manual						



- Weld examination satisfied the requirement for two “qualified” examinations prior to using the VIP-75 reduced examination scope.
- Weld examination credited for 3rd Interval
- Weld examination credited for 4th Interval

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TABLE 8 GL 88-01 CATEGORY E WELD OVERLAYS <i>WITHOUT</i> EFFECTIVE HWC 25 % Sample After Two Qualified Weld Examination (2 welds)									
	Second Interval Volumetric Exams	PERIOD 1			PERIOD 2 VIP-075 APPROVED		PERIOD 3		
		3/1/1 1R16 3/96	3/1/2 1R17 9/97	3/1/3 1R18 3/99	3/2/1 1R19 9/00	3/2/2 1R20 3/02	3/3/1 1R21 2/04	3/3/2 1R22 2/06	4/1/1 1R22 2/06
1. 1E11-1RHR-20B-D-3 1982 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 PSCAN 1993 SMART 1994 SMART								
2. 1E11-1RHR-20B-D-4 1991 OVERLAY	1991 Baseline PSCAN 1993 SMART 1994 SMART			SMART EXAM					
3. 1E11-1RHR-20B-D-5 1991 OVERLAY	1991 Baseline PSCAN 1993 SMART 1994 SMART							VOL	
4. 1E11-1RHR-24A-R-13 1984 OVERLAY 1986 RESURFACE	1986 Baseline 1987, 1990, 1991 PSCAN 1994 SMART								VOL
5. 1E11-1RHR-24B-R-12 1986 OVERLAY	1986 Baseline 1987, 1990, 1991 SMART 1993 SMART 1994 SMART								
6. 1E11-1RHR-24B-R-13 1982 OVERLAY 1986 RESURFACE	1986 Baseline 1988, 1990, 1991 SMART 1993 SMART 1994 SMART								

-  Weld examination satisfied the requirement for a “qualified” examination prior to using the VIP-75 reduced examination scope.
-  Weld examination credited for 3rd Interval
-  Weld examination credited for 4th Interval

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APPENDIX A DETERMINATION OF “QUALIFIED” EXAMINATIONS

Per BWRVIP-075, the training and qualification of examiners and procedures for application to BWR stainless steel piping welds was established in the mid 1980s and governed under the IGSCC/NDE Coordination Plan, also referred to as the Three Party Agreement. The IGSCC/NDE Coordination Plan was jointly developed and approved by the NRC, EPRI, and the BWR Owner's Group on IGSCC Research and was documented in GL88-01 and NUREG-0313, Rev 2. GL 88-01 states in part: "... the detailed procedure, equipment and examination personnel shall be qualified by a formal program approved by the NRC such as that being conducted in accordance with the NDE Coordination Plan agreed upon by NRC, EPRI and the BWROG...". The most significant improvements in inspection methods were well implemented by 1988, and the examinations performed since that time (and in accordance with GL 88-01) are considered very reliable. Per BWRVIP-075, personnel and procedures used for the examination of piping must have been and will continue to be in accordance with one of the following two documents.

- The program identified in William T. Russell, "Transition From the IGSCC Qualification Program to the Performance Demonstration Initiative Program," letter to K. P. Donovan, March 1, 1996.
- Performance Demonstration Initiative (PDI), Performance Description, Revision 1, Change 1, December 1996 (or later).

For HNP-1, the timing of the implementation of these improved inspection methods is contingent on the type of weld. Dependent upon the type of weld (dissimilar or similar), the improvements in inspection methods may have been adopted prior to the William T. Russell 1996 letter. These weld types are addressed below.

Dissimilar Metal Welds – These welds have historically been difficult to examine for IGSCC detection due to their configuration. Because of this difficulty, GE issued SIL-455 which incorporated L-wave techniques and other improvements for the detection of IGSCC. Since the issuance of SIL-455, other issues have been identified concerning the weld crown configuration.

Those examinations performed after November 22, 2002 (the Appendix VIII implementation date for dissimilar metal welds) used qualified procedures. For those examinations performed prior to the dissimilar metal weld Appendix VIII implementation date, it is the position of M&IS Level III personnel, that when NDE personnel qualified for IGSCC detection used NDE procedures incorporating SIL-455, that the examinations were qualified provided that the existing weld crown contours would now be acceptable for Appendix VIII examinations. In general, those examinations performed on welds that would not meet Appendix VIII requirements for weld crowns would not be considered as "qualified examinations".

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Procedures used prior to Appendix VIII implementation considered as “qualified” are:

- a. GE procedure UT-HAT-208 Version 0, Revision 0 and up, “Procedure for Automated Ultrasonic Examination of Similar and Dissimilar Metal Piping Welds” used the same essential variables that were used for Appendix VIII qualification. This procedure was used in 1994 and 1997 and meets the BWRVIP-075 intent for a “qualified” procedure.
- b. GE procedure UT-HAT-209 Version 0, “Procedure for Automated Ultrasonic Examination of Dissimilar Metal Piping Welds” used the “improved” refracted L wave inspection techniques per GE SIL 455 and examination personnel were qualified for IGSCC detection. This procedure was used in 1994 and 1997 and meets the BWRVIP-075 intent for a “qualified” procedure.
- c. GE procedure UT-HAT-225DV2, “Procedure for Automated Ultrasonic Examination of Dissimilar Metal Piping Welds” used the “improved” refracted L wave inspection techniques per GE SIL 455 and examination personnel were qualified for IGSCC detection. This procedure was used in 1997 and meets the BWRVIP-075 intent for a “qualified” procedure.
- d. GE procedure GE-UT-209 Revision 6, “Procedure for Automated Ultrasonic Examination of Dissimilar Metal Piping Welds” used the same essential variables that were used for Appendix VIII qualification. This procedure was used in 2000 and meets the BWRVIP-075 intent for a “qualified” procedure.
- e. SNC Procedure UT-H-409, Revisions 5 and up used the “improved” refracted L wave inspection techniques per GE SIL 455, Revision 1 and examination personnel were qualified for IGSCC detection. Versions of this procedure were used in 1989, 1994, 1997, and 2000 and meets the BWRVIP-075 intent for a “qualified” procedure.
- f. SNC Procedure UT-H-810/0 used the P-SCAN and used the “improved” refracted L wave inspection techniques per GE SIL 455, Revision 1 and examination personnel were qualified for IGSCC detection. This procedure was used in 1991 and meets the BWRVIP-075 intent for a “qualified” procedure.
- g. GE Procedure ES-MISN-H-409, Version 1 used after November 22, 2002 (the Appendix VIII implementation date for dissimilar metal welds).

Similar Metal Welds - For similar metal welds, those examinations performed after November 22, 2002 (the Appendix VIII implementation date for austenitic piping welds) by definition used qualified procedures. For those examinations performed prior to the Appendix VIII implementation date, it is the position for HNP-1 that the NDE techniques (personnel and procedures) used from 1988 until the implementation of Appendix VIII are considered acceptable for the detection of IGSCC. (Note: Since each similar metal weld has received at least one examination since 1990, exams performed from 1990 until November 22, 2002 were used in this evaluation).

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APPENDIX B DETERMINATION OF “EFFECTIVE” HYDROGEN WATER (HWC)

Per BWRVIP-075, plants that operate with effective HWC may further reduce their inspection frequency. The definition of effective HWC is provided in Section 3.6 of BWRVIP-075. BWRVIP states that “licensees that take credit for HWC should verify and validate that an effective HWC program, in accordance with the staff-approved BWRVIP-62 guidelines, has been achieved. BWRVIP-62, titled “Technical Basis for Inspection Relief for BWR Internal Components with Hydrogen Injection”, provides the technical bases and criteria for an effective HWC/NMCA program to mitigate IGSCC of BWR internals and to demonstrate that inspection relief is justified for BWR internals. HNP-1 will follow the guidance in BWRVIP-62 for an effective HWC program in regards to piping and vessel internals inspection relief.

HNP-1 has overall effective hydrogen water chemistry (HWC) as determined by the measured ECP value at the bottom of the RPV. To achieve effective HWC, HNP-1 periodically injects noble metal and continuously injects a reduced level of hydrogen.

It should be noted that while HNP-1 has effective HWC, each weld may or may not have effective HWC because of its location. To have effective HWC at each weld of interest, the noble metal must have plated out on each weld to provide protection for the weld, and the water chemistry at each weld must have sufficient hydrogen to sufficiently lower the oxygen content. For HNP-1, all welds are considered to have effective HWC except for the following.

- Welds located in stagnant areas, including:
 - Core Spray nozzles – carbon steel pipe to stainless safe-end extension (1 dissimilar metal weld per nozzle), stainless steel safe-end extension to stainless steel safe-end (1 similar metal weld per nozzle), and stainless steel safe-end to Inconel buttered nozzle (1 dissimilar metal weld per nozzle).
 - Jet Pump Instrument safe-end welds (2 nozzles with 2 welds on each nozzle).
 - CRD nozzle to cap weld (1 nozzle with 1 weld).
- Welds located in piping with no flow during power operation including:
 - RHR Suction Line – Welds downstream of the RWCU connection.
 - RHR Injection Lines – All welds.

The Recirculation Inlet nozzle to safe-end welds were also evaluated because they are covered by a thermal sleeve. Per drawing 1-BF-2, the thermal sleeve is open-ended on the downstream side. Therefore, flow turbulence inside the RPV can cause flow under the thermal sleeve and these welds are considered as protected by hydrogen water chemistry.

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APPENDIX C DETERMINATION OF “EFFECTIVE” STRESS IMPROVEMENT

Processes used at HNP-1 were Induction Heating Stress Improvement (IHSI) and the Mechanical Stress Improvement Process (MSIP). Internal meetings were held on August 2-3, 2003 to assess compliance with the *Draft* A-Version of BWRVIP-075 that, “The Owner must ensure that an effective stress improvement was achieved.” It was agreed that those welds receiving an MSIP treatment had an effective stress improvement; however, it was concluded that SNC had not performed sufficient actions to ensure that an effective stress improvement was achieved for those welds receiving the IHSI process. To provide this assurance, it was recommended that the NUTECH process for IHSI at Hatch be evaluated against later BWRVIP-61 recommendations for an effective stress improvement using the following criteria:

- If the NUTECH procedures met the BWRVIP-61 guidelines, then an effective IHSI was considered to have been performed.
- For those welds where the NUTECH procedure did not meet BWRVIP-61 guidance, if the NUTECH data complied with the BWRVIP-61 parameters, then an effective stress improvement was considered to have been performed.
- For those welds whose data did not meet the BWRVIP-61 parameters, an evaluation was to be performed to determine the effectiveness of the stress improvement.

As a result, the IHSI process for each weld was independently screened by Martin B. Sims in Southern Company Generation and Energy Marketing Power Engineering - Metallurgy & Material Applications.

Per E-Mail dated April 12, 2005 it was stated that, “Here is the list of welds that can not be justified as having "effective stress improvement" based on the BWRVIP-61 recommendations. These welds have some level of improvement over their original condition that is typically supported by finite element analysis, but may not be considered as fully effective per BWRVIP-61 without some supporting residual stress data such as was performed by EPRI for other weld configurations.”

This list of welds as shown below was sent to Structural Integrity Associates (SIA) for further evaluation. Preliminary results from SIA indicated that sufficient compressive forces were achieved as required.

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Weld	Configuration	Comments
1B31-1RC-4A-1A	Weldolet To Cap	Heated zone width not met on cap side of weld.
1B31-1RC-4B-10A	Weldolet To Cap	Heated zone width not met on cap side of weld.
1B31-1RC-12AR-F-1	Sweeplet To Pipe	Heated zone width not met on sweeplet side of weld.
1B31-1RC-12AR-G-1	Sweeplet To Pipe	Heated zone width not met on sweeplet side of weld.
1B31-1RC-12AR-H-1	Reducer To Pipe	Heated zone width not met on reducer side of weld.
1B31-1RC-12AR-J-1	Sweeplet To Pipe	Heated zone width not met on sweeplet side of weld.
1B31-1RC-12AR-K-1	Sweeplet To Pipe	Heated zone width not met on sweeplet side of weld.
1B31-1RC-12BR-A-1	Sweeplet To Pipe	Heated zone width not met on sweeplet side of weld.
1B31-1RC-12BR-B-1	Sweeplet To Pipe	Heated zone width not met on sweeplet side of weld.
1B31-1RC-12BR-C-1	Reducer To Pipe	Heated zone width not met on reducer side of weld.
1B31-1RC-12BR-D-1	Sweeplet To Pipe	Heated zone width not met on sweeplet side of weld.
1B31-1RC-12BR-E-1	Sweeplet To Pipe	Heated zone width not met on sweeplet side of weld.
1B31-1RC-22AM-1BC-1	Run Pipe To Sweeplet	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-22AM-1BC-2	Run Pipe To Sweeplet	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-22AM-2	Cross To Pipe	Heated zone width not met on cross side of weld.
1B31-1RC-22AM-3	Cross To Pipe	Heated zone width not met on cross side of weld.
1B31-1RC-22AM-3BC-1	Run Pipe To Sweeplet	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-22AM-3BC-2	Run Pipe To Sweeplet	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-22BM-1BC-1	Run Pipe To Sweeplet	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-22BM-1BC-2	Run Pipe To Sweeplet	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-22BM-2	Cross To Pipe	Heated zone width not met on cross side of weld.
1B31-1RC-22BM-3	Cross To Pipe	Heated zone width not met on cross side of weld.
1B31-1RC-22BM-3BC-1	Run Pipe To Sweeplet	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-22BM-3BC-2	Run Pipe To Sweeplet	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-28A-3	Pipe To Elbow	Heated zone offset to elbow side of weld, heated zone width not met on pipe side of weld.
1B31-1RC-28A-9	Pipe To Elbow	Heated zone offset to elbow side of weld, heated zone width not met on pipe side of weld.
1B31-1RC-28A-11BC	Weldolet To Run Pipe	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-28A-14BC-1	Weldolet To Run Pipe	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1B31-1RC-28B-7	Pipe To Elbow	Heated zone offset to elbow side of weld, heated zone width not met on pipe side of weld.
1B31-1RC-28B-12BC	Weldolet To Run Pipe	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds, minimum heating time not met.
1B31-1RC-28B-15BC-1	Weldolet To Run Pipe	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.

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Weld	Configuration	Comments
1B31-1RC-28B-18	Cross To Reducer	Heated zone width not met on reducer side of weld.)
1E11-1RHR-20B-D-1	Tee To Pipe	Heated zone offset to pipe side of weld, IHSI not effective for tee side.
1E11-1RHR-20B-D-1BC	Sweepolet To Run Pipe	No test data to show effective IHSI can be achieved for BC fitting to run pipe welds.
1E11-1RHR-24A-R-14	Pipe To Tee	Heated zone offset to pipe side of weld, IHSI not effective for tee side.
1E11-1RHR-24B-R-14	Pipe To Tee	Heated zone offset to pipe side of weld, IHSI not effective for tee side.

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
OL-1	H1 1B31-1RC-12AR-F-2		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-F-2		84 OVERLAY - 86 RESURFACE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12AR-F-3		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-F-3		84 OVERLAY - 86 RESURFACE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12AR-F-4		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-F-4		1986 OVERLAY	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12AR-G-3		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-G-3		1986 OVERLAY	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12AR-G-4		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-G-4		1991 OVERLAY	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12AR-H-2		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-H-2		84 OVERLAY 86 RESURFACE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12AR-H-3		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-H-3		84 OVERLAY 86 RESURFACE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12AR-H-4		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-H-4		1986 OVERLAY	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12AR-J-3		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-J-3		84 OVERLAY - 86 RESURFACE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12AR-K-2		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-K-2		84 OVERLAY - 86 RESURFACE	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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OL-1	H1 1B31-1RC-12AR-K-3		A-18	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12AR-K-3		84 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-A-4		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-A-4		OVERLAY 1991	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-B-3		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-B-3		ELBOW TO PIPE 1986 OVERLAY	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-C-2		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-C-2		PIPE TO EL 84 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-C-3	ISI/UT/NMP-ES-024-509	A-19	ISI	s	-	-	-	-	-
Table 7	1B31-1RC-12BR-C-3		EL TO PIPE 84 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-C-4		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-C-4		PIPE TO SAFE-END 1986 OVERLAY	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-C-5		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-C-5		SE TO NOZ 1HSI 1985/1986, 1988 OVER	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-D-2		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-D-2		PIPE TO ELBOW 1986 OVERLAY	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-D-3		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-D-3		EL TO PIPE 84 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-E-2		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-E-2		PIPE TO EL 84 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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OL-1	H1 1B31-1RC-12BR-E-3		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-E-3		EL TO PIPE 84 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-E-4		A-19	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-12BR-E-4		PIPE TO SE IHSI 85/86 OVERLAY 1991	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
OL-1	H1 1B31-1RC-12BR-E-5	ISI/UT/NMP-ES-024-501	A-19	ISI	s	-	-	-	-	-
Table 7	1B31-1RC-12BR-E-5		SE TO NOZZLE IHSI 85/86 OVERLAY 88	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
OL-1	H1 1B31-1RC-22AM-1		A-16	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-22AM-1		CAP TO PIPE 82 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
OL-1	H1 1B31-1RC-22AM-4		A-16	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-22AM-4		PIPE TO CAP 82 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
OL-1	H1 1B31-1RC-22BM-1		A-17	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-22BM-1		CAP TO PIPE 82 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
OL-1	H1 1B31-1RC-22BM-4	ISI/UT/NMP-ES-024-509	A-17	ISI	s	-	-	-	-	-
Table 7	1B31-1RC-22BM-4		PIPE TO CAP 82 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28A-10		A-14	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28A-10		84 OVERLAY - 86 RESURFACE	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28A-12		A-14B	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28A-12		PIPE TO VALVE 1986 OVERLAY	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28A-14		A-14B	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28A-14		EL TO PIPE IHSI 85/86 OVERLAY 90	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-

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OL-1	H1 1B31-1RC-28A-2		A-14	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28A-2		SAFE-END TO PIPE OVERLAY, 1990	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28A-4		A-14	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28A-4		ELBOW TO PIPE OVERLAY 1990	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28A-6		A-14	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28A-6		PIPE TO ELBOW OVERLAY 1990	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28A-7		A-14	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28A-7		EL TO VALVE IHSI 85/86 OVERLAY 90	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28A-8		A-14	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28A-8		VALVE TO PIPE IHSI 85/86 OVERLAY 90	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28B-10		A-15	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28B-10		PIPE TO EL IHSI 85/86 OVERLAY 90	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28B-11		A-15	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28B-11		EL TO PUMP 84 OVERLAY/86 RESURF	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28B-13		A-15B	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28B-13		PIPE TO VLV IHSI 85/86 OVERLAY 90	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28B-14		A-15B	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28B-14		1990 OVERLAY	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1	H1 1B31-1RC-28B-15		A-15B	ISI	-	-	-	-	-	-
Table 7	1B31-1RC-28B-15		EL TO PIPE IHSI 85/86 OVERLAY 90	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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OL-1 Table 7 1	H1 1B31-1RC-28B-16 1B31-1RC-28B-16 B31		A-15B PIPE TO TEE 1986 OVERLAY	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 7 1	H1 1B31-1RC-28B-2 1B31-1RC-28B-2 B31		A-15 SE TO PIPE IHSI 85/86 OVERLAY 91	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 7 1	H1 1B31-1RC-28B-3 1B31-1RC-28B-3 B31		A-15 PIPE TO EL 84 OVERLAY/86 RESURF	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 7 1	H1 1B31-1RC-28B-4 1B31-1RC-28B-4 B31		A-15 EL TO PIPE 84 OVERLAY/86 RESURF	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 7 1	H1 1B31-1RC-28B-8 1B31-1RC-28B-8 B31		A-15 EL TO VALVE OVERLAY 1990	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 7 1	H1 1B31-1RC-28B-9 1B31-1RC-28B-9 B31		A-15 VALVE TO PIPE IHSI 85/86 OVERLAY 90	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 8 1	H1 1E11-1RHR-20B-D-3 1E11-1RHR-20B-D-3 E11		A-23 82 OVERLAY - 86 RESURFACE	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 8 1	H1 1E11-1RHR-20B-D-4 1E11-1RHR-20B-D-4 E11		A-23 1991 OVERLAY	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 8 1	H1 1E11-1RHR-20B-D-5 1E11-1RHR-20B-D-5 E11		A-23 1991 OVERLAY	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 8 1	H1 1E11-1RHR-24A-R-13 1E11-1RHR-24A-R-13	ISI/UT/NMP-ES-024-509	A-21 1984 OVERLAY 1986 RESURFACE	ISI	s	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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OL-1 Table 8 1	H1 1E11-1RHR-24B-R-12 1E11-1RHR-24B-R-12		A-22 1986 OVERLAY	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 8 1	H1 1E11-1RHR-24B-R-13 1E11-1RHR-24B-R-13 B31		A-22 1991 OVERLAY	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 7 1	H1 1G31-1RWCU-6-D-1 1G31-1RWCU-6-D-1 G31		A-32 1988 OVERLAY	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
OL-1 Table 7 1	H1 1G31-1RWCUM-6-D-9 1G31-1RWCUM-6-D-9 G31		A-32 1988 OVERLAY	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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XB-F	H1 1B31-1RC-12AR-F-5		A-18	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-12AR-F-5		SE TO NOZZLE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-12AR-G-5		A-18	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-12AR-G-5		SE TO NOZZLE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-12AR-H-5		A-18	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-12AR-H-5		SE TO NOZZLE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-12AR-J-5		A-18, 1-BF-2	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-12AR-J-5		SE TO NOZZLE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-12AR-K-5		A-18	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-12AR-K-5		SE TO NOZZLE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-12BR-A-5		A-19	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-12BR-A-5		SE TO NOZZLE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-12BR-B-5		A-19, 1-BF-2	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-12BR-B-5		SE TO NOZZLE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-12BR-D-5		A-19	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-12BR-D-5		SE TO NOZZLE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-28A-1		A-14, 1-BF-1	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-28A-1		NOZZLE TO SE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-28B-1		A-15, 1-BF-1	ISI	-	-	-	-	-	-
Table 4	1B31-1RC-28B-1		NOZZLE TO SE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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XB-F	H1 1B31-1RC-4JP-A-1		A-39	ISI	-	-	-	-	-	-
Table 3	1B31-1RC-4JP-A-1		N8A NOZZLE TO SE MSIP 1993	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1B31-1RC-4JP-B-1		A-39	ISI	-	-	-	-	-	-
Table 3	1B31-1RC-4JP-B-1		N8B NOZZLE TO SE MSIP 1993	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1C11-1CRD-3-R-18A		A-1	ISI	-	-	-	-	-	-
Table 3	1C11-1CRD-3-R-18A		CAP TO NOZZLE MSIP 1993	AUG	-	-	-	-	-	-
1	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1E11-1RHR-24A-R-12		A-21	ISI	-	-	-	-	-	-
Table 3	1E11-1RHR-24A-R-12		VALVE TO PIPE IHSI 1985/1986	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1E21-1CS-10A-18A		A-26, 1-BF-5	ISI	-	-	-	-	-	-
Table 3	1E21-1CS-10A-18A		PIPE TO SE EXTENSION MSIP 1993	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1E21-1CS-10A-20A		A-26, 1-BF-5	ISI	-	-	-	-	-	-
Table 3	1E21-1CS-10A-20A		SE TO NOZZLE MSIP 1993	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1E21-1CS-10B-19A		A-27, 1-BF-5	ISI	-	-	-	-	-	-
Table 3	1E21-1CS-10B-19A		PIPE TO SE EXTENSION MSIP 1993	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-F	H1 1E21-1CS-10B-21A		A-27, 1-BF-5	ISI	-	-	-	-	-	-
Table 3	1E21-1CS-10B-21A		SE TO NOZZLE MSIP 1993	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
XB-J Table 6 1	H1 1B31-1RC-12AR-F-1			ISI	-	-	-	-	-	-
	1B31-1RC-12AR-F-1		BC TO PIPE IHSI 1985/86 RO	AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-12AR-G-1		A-18	ISI	-	-	-	-	-	-
	1B31-1RC-12AR-G-1		B-C TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-12AR-G-2		A-18	ISI	-	-	-	-	-	-
	1B31-1RC-12AR-G-2		PIPE TO ELBOW IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-12AR-H-1		A-18	ISI	-	-	-	-	-	-
	1B31-1RC-12AR-H-1		REDUCER TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-12AR-J-1		A-18	ISI	-	-	-	-	-	-
	1B31-1RC-12AR-J-1		B-C TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-12AR-J-2		A-18	ISI	-	-	-	-	-	-
	1B31-1RC-12AR-J-2		PIPE TO ELBOW IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-12AR-J-4		A-18	ISI	-	-	-	-	-	-
	1B31-1RC-12AR-J-4		PIPE TO SAFE-END IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-12AR-K-1		A-18	ISI	-	-	-	-	-	-
	1B31-1RC-12AR-K-1		B-C TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-12AR-K-4		A-18	ISI	-	-	-	-	-	-
	1B31-1RC-12AR-K-4		PIPE TO SAFE-END IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-12BR-A-1	ISI/UT/NMP-ES-024-501	A-19	ISI	s	-	-	-	-	-
	1B31-1RC-12BR-A-1		B-C TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
XB-J	H1 1B31-1RC-12BR-A-2		A-19	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-12BR-A-2		PIPE TO ELBOW IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-12BR-A-3		A-19	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-12BR-A-3		ELBOW TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-12BR-B-1		A-19	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-12BR-B-1		B-C TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-12BR-B-2		A-19	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-12BR-B-2		PIPE TO ELBOW IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-12BR-B-4		A-19	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-12BR-B-4		PIPE TO SAFE-END IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-12BR-C-1		A-19	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-12BR-C-1		REDUCER TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-12BR-D-1		A-19	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-12BR-D-1		B-C TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-12BR-D-4		A-19	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-12BR-D-4		PIPE TO SAFE-END IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-12BR-E-1		A-19	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-12BR-E-1		B-C TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22AM-1BC-1		A-16	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-22AM-1BC-1		PIPE TO B-C IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
XB-J	H1 1B31-1RC-22AM-1BC-2		A-16	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-22AM-1BC-2		PIPE TO B-C IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22AM-2		A-16	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-22AM-2		PIPE TO CROSS IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22AM-3		A-16	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-22AM-3		CROSS TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22AM-3BC-1		A-16	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-22AM-3BC-1		PIPE TO B-C IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22AM-3BC-2		A-16	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-22AM-3BC-2		PIPE TO B-C IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22BM-1BC-1		A-17	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-22BM-1BC-1		PIPE TO B-C IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22BM-1BC-2		A-17	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-22BM-1BC-2		PIPE TO B-C IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22BM-2		A-17	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-22BM-2		PIPE TO CROSS IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22BM-3		A-17	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-22BM-3		CROSS TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
XB-J	H1 1B31-1RC-22BM-3BC-1		A-17	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-22BM-3BC-1		PIPE TO B-C IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
XB-J	H1 1B31-1RC-22BM-3BC-2		A-17	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-22BM-3BC-2		PIPE TO B-C IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28A-11		A-14B	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-28A-11		PUMP TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28A-11BC		A-14B	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-28A-11BC		PIPE TO BC IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28A-13		A-14B	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-28A-13		VALVE TO ELBOW IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28A-14BC		A-14B	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-28A-14BC		PIPE TO BC IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28A-15		A-14B	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-28A-15		PIPE TO TEE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28A-16		A-14B	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-28A-16		TEE TO CROSS IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28A-17		A-14B	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-28A-17		CROSS TO REDUCER IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28A-3		A-14	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-28A-3		PIPE TO ELBOW IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28A-5		A-14	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-28A-5		PIPE TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
XB-J Table 6 1	H1 1B31-1RC-28A-5A 1B31-1RC-28A-5A B31		A-14 PIPE TO PIPE IHSI 1985/1986 RO	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J XB9.31 1	H1 1B31-1RC-28A-8BC 1B31-1RC-28A-8BC B31		A-14 PIPE TO BC	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-28A-9 1B31-1RC-28A-9 B31		A-14 PIPE TO ELBOW IHSI 1985/1986 RO	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-28B-12 1B31-1RC-28B-12 B31		A-15B PUMP TO PIPE IHSI 1985/1986 RO	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J XB9.31 1	H1 1B31-1RC-28B-12BC 1B31-1RC-28B-12BC B31		A-15B PIPE TO BC IHSI 1985/1986 RO	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J XB9.31 1	H1 1B31-1RC-28B-15BC 1B31-1RC-28B-15BC B31		A-15B PIPE TO BC IHSI 1985/1986 RO	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-28B-17 1B31-1RC-28B-17 B31		A-15B TEE TO CROSS IHSI 1985/1986 RO	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-28B-18 1B31-1RC-28B-18 B31		A-15B CROSS TO REDUCER IHSI 1985/1986 RO	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-28B-5 1B31-1RC-28B-5 B31		A-15 PIPE TO TEE IHSI 1985/1986 RO	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J Table 6 1	H1 1B31-1RC-28B-6 1B31-1RC-28B-6 B31		A-15 TEE TO PIPE IHSI 1985/1986 RO	ISI	-	-	-	-	-	-
				AUG	-	-	-	-	-	-
				OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
XB-J	H1 1B31-1RC-28B-7		A-15	ISI	-	-	-	-	-	-
Table 6	1B31-1RC-28B-7		PIPE TO ELBOW IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-28B-9BC		A-15	ISI	-	-	-	-	-	-
XB9.31	1B31-1RC-28B-9BC		PIPE TO BRANCH CONNECTION	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-4A-10A		A-14B	ISI	-	-	-	-	-	-
Table 5	1B31-1RC-4A-10A		BC TO CAP IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-4A-1A		A-14B	ISI	-	-	-	-	-	-
Table 5	1B31-1RC-4A-1A		BC TO CAP IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-4B-10A		A-15B	ISI	-	-	-	-	-	-
Table 5	1B31-1RC-4B-10A		BC TO CAP IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-4B-1A		A-15B	ISI	-	-	-	-	-	-
Table 5	1B31-1RC-4B-1A		BC TO CAP IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-4JP-A-2		A-39	ISI	-	-	-	-	-	-
Table 5	1B31-1RC-4JP-A-2		MSIP 1993 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1B31-1RC-4JP-B-2		A-39	ISI	-	-	-	-	-	-
Table 5	1B31-1RC-4JP-B-2		MSIP 1993 RO	AUG	-	-	-	-	-	-
1	B31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1E11-1RHR-20B-D-1		A-23	ISI	-	-	-	-	-	-
Table 6	1E11-1RHR-20B-D-1		TEE TO PIPE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1E11-1RHR-20B-D-1BC		A-23	ISI	-	-	-	-	-	-
XB9.31	1E11-1RHR-20B-D-1BC		PIPE TO BC IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
XB-J	H1 1E11-1RHR-20B-D-2		A-23	ISI	-	-	-	-	-	-
Table 5	1E11-1RHR-20B-D-2		PIPE TO ELBOW IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1E11-1RHR-24A-R-14		A-21	ISI	-	-	-	-	-	-
Table 5	1E11-1RHR-24A-R-14		PIPE TO TEE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1E11-1RHR-24B-R-14		A-22	ISI	-	-	-	-	-	-
XB9.11	1E11-1RHR-24B-R-14		PIPE TO TEE IHSI 1985/1986 RO	AUG	-	-	-	-	-	-
1	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1E21-1CS-10A-19A	ISI/UT/NMP-ES-024-501	A-26	ISI	s	-	-	-	-	-
Table 5	1E21-1CS-10A-19A		MSIP 1993 RO	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1E21-1CS-10B-20A		A-27, 1-BF-5	ISI	-	-	-	-	-	-
Table 5	1E21-1CS-10B-20A		MSIP 1993 RO	AUG	-	-	-	-	-	-
1	E21			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCU-6-D-15A		A-32	ISI	-	-	-	-	-	-
Table 6	1G31-1RWCU-6-D-15A		VALVE TO PIPE IHSI 1985/86 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCU-6-D-15B		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCU-6-D-15B		PIPE TO PIPE	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCU-6-D-15C		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCU-6-D-15C		PIPE TO FLUED HEAD	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-10		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-10		ELBOW TO PIPE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-10-A		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-10-A		PIPE TO PIPE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
XB-J	H1 1G31-1RWCUM-6-D-11		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-11		PIPE TO ELBOW MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-12		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-12		ELBOW TO PIPE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-13		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-13		PIPE TO ELBOW MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-14		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-14		ELBOW TO VALVE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-16	ISI/UT/NMP-ES-024-501	A-32	ISI	s	-	-	-	-	-
Table 6	1G31-1RWCUM-6-D-16		PENETRATION TO PIPE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-17		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-17		PIPE TO ELBOW MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-18		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-18		ELBOW TO PIPE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-19		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-19		PIPE TO ELBOW MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-2			ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-2		PIPE TO ELBOW MSIP 1993 RO	AUG	-	-	-	-	-	-
1	RWCU			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-20	ISI/UT/NMP-ES-024-501	A-32	ISI	s	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-20		ELBOW TO VALVE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
XB-J	H1 1G31-1RWCUM-6-D-3		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-3		ELBOW TO PIPE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-4		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-4		PIPE TO VALVE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-5		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-5		VALVE TO ELBOW MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-6		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-6		ELBOW TO PIPE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-6-BC-1		A-32	ISI	-	-	-	-	-	-
XB9.32	1G31-1RWCUM-6-D-6-BC-1		1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-7		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-7		PIPE TO ELBOW MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
XB-J	H1 1G31-1RWCUM-6-D-8		A-32	ISI	-	-	-	-	-	-
Table 2	1G31-1RWCUM-6-D-8		ELBOW TO PIPE MSIP 1993 RO	AUG	-	-	-	-	-	-
1	G31			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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The NRC’s safety evaluation dated 6/16/97 of the 3rd Interval ISI Program indicated, that in addition to the 1989 Code required examinations, certain Class 1 augmented examinations would be performed per GPC commitment. The commitments along with the current implementation methodology are listed below and will also be followed for the 4th Interval.

High Energy Lines Outside Containment

For locations where pipe breaks are not postulated on high energy main steam, feedwater, HPCI (steam), RCIC (steam) and RWCU piping located outside containment augmented examinations are generally required. However, per the December 1972 NRC letter from A. Giambusso to Georgia Power Company, augmented examinations are not required.

Examination of IGSCC Susceptible Welds

These examinations were originally performed per NUREG-0313 as modified by Generic Letter 88-01. They are currently performed per BWRVIP-075. See the BWRVIP-075 Section of this plan.

Core Shroud Examination

Examination of the core shroud in accordance with Generic Letter 94-03. These examinations were originally performed as required. They are currently performed per BWRVIP requirements.

Scram Discharge Volume Piping

Examination of the Scram Discharge Volume (SDV) piping in accordance with NUREG-0803. NUREG-0803 contends that since the SDV was designed and fabricated in accordance with Class 2 piping that it should be subjected to the ISI requirements for Class 2 piping. However, by letter dated March 5, 1982, GPC committed to the following, “We will include weld examination of the SD (scram discharge) headers in the ISI program” The 2nd Interval update was performed effective 12/31/85 and these welds were included as required. As permitted in 10CFR50.55a, examination locations were selected by the 1974 Code with addenda through Summer 1975 and the examinations were performed per the 1980 Edition of Section XI through Winter 1981. As shown on ISI Figures B-84 and B-85 there are thirty-one (EBB, 0.5” thick, schedule 80 carbon steel), welds. The 1974 Code required examination of 100% of welds that circulate reactor coolant to be examined over the 40-year life. For those systems not circulating reactor coolant the examinations could be reduced to 50% of the welds. These welds are outside the Reactor Coolant Pressure Boundary and per NEDO-24342, “GE Evaluation in Response to NRC Request Regarding BWR Scram System Pipe Breaks” they are pressurized less than 1% of the time. Therefore, these welds were designated as not circulating Reactor Coolant. Additionally, because there are two similar CRD headers only the equivalent of 50% of one the headers needed to be

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examined during the 40-years. Since the largest header has 18 welds, 50% or nine welds had to be examined during the 40-year life or three welds per 10-year interval. The 1980 Code required a surface examination technique for 0.5” thick piping.

For the 3rd Interval, a 7.5% sample (3 welds) was examined (volumetric and surface). Examinations are shown in Table 1. *This piping is designated as Category C-803 in Schedule Works.* For the 4th Interval, the same three welds will be re-examined.

TABLE 1 AUGMENTED CRD EXAMINATIONS					
Component	ISI Figure	Exam	I4/P1	I4/P2	I4/P3
1. 1C11-2CRD-8N-SDV-1	B-84				
2. 1C11-2CRD-8N-SDV-2	B-84				
3. 1C11-2CRD-8N-SDV-2A	B-84				
4. 1C11-2CRD-8N-SDV-2B	B-84				
5. 1C11-2CRD-8N-SDV-2C	B-84				
6. 1C11-2CRD-8N-SDV-3	B-84				
7. 1C11-2CRD-8N-SDV-4	B-84	Vol		1R24	
8. 1C11-2CRD-8N-SDV-6	B-84				
9. 1C11-2CRD-8N-SDV-7	B-84				
10. 1C11-2CRD-8N-SDV-8	B-84				
11. 1C11-2CRD-8N-SDV-9	B-84				
12. 1C11-2CRD-8N-SDV-10	B-84				
13. 1C11-2CRD-8N-SDV-11	B-84	Vol	1R23		
14. 1C11-2CRD-8N-SDV-12	B-84	Vol			1R26
15. 1C11-2CRD-8N-SDV-13	B-84				
16. 1C11-2CRD-8S-SDV-1	B-85				
17. 1C11-2CRD-8S-SDV-2	B-85				
18. 1C11-2CRD-8S-SDV-2A	B-85				
19. 1C11-2CRD-8S-SDV-3	B-85				
20. 1C11-2CRD-8S-SDV-4	B-85				
21. 1C11-2CRD-8S-SDV-5	B-85				
22. 1C11-2CRD-8S-SDV-6	B-85				
23. 1C11-2CRD-8S-SDV-7	B-85				
24. 1C11-2CRD-8S-SDV-8	B-85				
25. 1C11-2CRD-8S-SDV-9	B-85				
26. 1C11-2CRD-8S-SDV-10	B-85				
27. 1C11-2CRD-8S-SDV-11	B-85				
28. 1C11-2CRD-8S-SDV-12	B-85				
29. 1C11-2CRD-8S-SDV-13	B-85				

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Feedwater Nozzles and CRD Return Line

Augmented examination of the feedwater nozzles as specified by NUREG-0619 as modified by Generic Letter 81-11. These examinations were originally performed as required. They are currently performed per “Alternate BWR Feedwater Nozzle Inspection Requirements,” GE-NE-523-A71-0594-A, Revision 1, May 2000.

From 1974 to 1980, the inspection of feedwater nozzles by the industry indicated that there was some degree of cracking in the bore and inner radii of reactor vessel of reactor vessel feedwater nozzles in 18 of 23 commercially operating domestic BWRs. It was determined that most of the cracking was caused by lower temperature feedwater and CRD return line water leaking past interference fit spargers and initiating high-cycle thermal fatigue cracking in the clad nozzle inner radius and bore region. Startup and shutdown cycles would then drive the crack deeper into the nozzle. As a result, on November 13, 1980 the NRC issued NUREG-0619 detailing specific requirements to alleviate the cracking. Additional guidance was given in Generic Letter 88-11. The NRC staff’s position was that the nozzles should be de-clad, the interference fit spargers replaced with an improved design, and the RWCU/CRD return lines re-routed such that the cooler water went through all the feedwater nozzles. The low-flow controllers should either be changed or a plant-specific fracture mechanics analysis should be performed that demonstrated that a crack would not grow to greater than one inch during the 40 year life of the plant. The history for HNP-1 is shown below in the bulleted paragraphs

- The HNP RPV was originally fabricated with clad feedwater nozzles with interference fit spargers. The original nozzle configuration is shown on CE drawing E 234-274 which can be found in the Hatch 1 Reactor Vessel Instruction Manual (S-19000). Because of cracking issues at other sites associated with the original configuration, the HNP-1 nozzle cladding was removed and a triple-sleeve, double piston sparger was installed per DCR 78-202. New feedwater nozzle configurations are shown in drawings SX-18920 and SX-18921.
- “Edwin I. Hatch Nuclear Power Station, Unit 1, Feedwater Fracture Mechanics Analysis to Show Compliance with NUREG-0619” (NEDE-30238) was issued on August 1983 and submitted to the NRC by letter dated September 19, 1984.
- By Safety Evaluation dated January 21, 1986 the NRC concluded that during the forty year life, the amount of fatigue crack growth in the feedwater nozzles should be less than one inch, therefore, the existing Unit 1 flow controllers are in compliance with NUREG-0619 as amended by Generic Letter 88-11. Once compliance was determined, NUREG-0619 required (for the new triple-sleeve, double piston configuration) that a UT examination be performed on all feedwater nozzle bores and inside blend radii every 2nd refueling outage and a PT of the ID be performed every 6 refueling outages or 135 startup/shutdown cycles.

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- By letter dated October 19, 1992, SNC proposed to perform an automated UT during the Spring 1993 outage and then UT every 4th refueling outage in lieu of the NUREG-0619 requirements. The PT examination would thus be eliminated.
- By NRC Safety Evaluation dated 10/21/94 and by SNC 10 CFR 50.59 Safety Evaluation dated 9/28/95 (HL-5040), the PT examination was eliminated and the frequency of the UT examinations was changed to every 4th refueling outage.
- Because of significant advances in UT inspection technology in the 1990's, the BWROG (using GE) began the development of alternate inspection requirements for the feedwater nozzles. As a result, BWROG Licensing Topical Report, “Alternate BWR feedwater Nozzle Inspection Requirements”, (GE-NE-523-A71-0594, Revision 0) was issued in October 1995 to allow reduced inspection frequencies.
- A report were prepared by GE in July 1997 for HNP-1 as part of the Extended Power Uprate effort, which (in part) provided feedwater nozzle fracture mechanics assessments based “upon the existing low flow feedwater controller in conjunction with plant operating history available at the time.” The Extended Power Uprate increased the nominal operating pressure by about 50 psi and the feedwater nozzle temperature about 6⁰ F.
- On February 9, 2000, GE issued a plant specific evaluation for HNP to provide justification for extending the UT examination frequency of the nozzle inner radii and elimination of the ID PT examination. The evaluation was based on Revision 0 of the BWROG Topical Report and the NRC Safety Evaluation dated June 5, 1998. The evaluation noted that Revision 1 of the Topical Report, which incorporated responses to six NRC criteria, was submitted to the NRC on September 24, 1999. The evaluation further noted that the NRC's approval of the September 24th submittal would have no effect on the evaluation. Key issues and results are:
 - The evaluation per the BWROG Topical Report included consideration of the sparger type (triple-sleeve, double piston), UT inspection methodology (automated, full RF recording), and crack growth rate (based on the 1997 Extended Power Uprate feedwater nozzle fracture mechanics analysis).
 - The 1997 Extended Power Uprate feedwater nozzle fracture mechanics was used in determining the length of time that it would take to grow a 0.25” crack to unacceptable limits. Two criterion were used.
 - a. The first criterion was the time that it would take to grow the 0.25” crack to 1” in depth, which was the criteria found in NUREG-0619. It was concluded by the analysis that a crack would take greater than 40 years to grow to a depth of 1” and that it would reach 0.87” in depth in 36 years.

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- b. The second criterion is more limiting and was based on the time it would take to grow a 0.25” crack to 10% of the blend radius thickness, which is the acceptable flaw depth per ASME Section XI. The blend radius was calculated by GE as 7.6” thick; therefore, the acceptable flaw depth would be 0.76”. The time to grow a 0.25” crack to 0.76” deep was determined to be **32 years**. GE indicated that a 10-year inspection frequency is appropriate based on the Extended Power Uprate fracture mechanics evaluation, a triple-sleeve, double-piston configuration, automated - full RF recording UT, and a blend radius thickness of 7.6”.
- On March 13, 2000 a letter was issued from D. M. Crowe (HNP Licensing Manager) to B. K. McLeod concluding that General Electric had performed the evaluation to change the inspection frequency to once per 10 years. The change was implemented per a 10 CFR 50.59 Evaluation dated 3/13/00.
- In May 2000 GE issued, “Alternate BWR feedwater Nozzle Inspection Requirements”, GE-NE-523-A71-0594-A, Revision 1, which incorporated the NRC’s safety evaluation.
- By letter dated September 23, 2003, the NRC approved the change to increase licensed power level for Hatch, Units 1 and 2 by 1.5 percent from 2763 megawatts thermal (MWt) to 2804 MWt. In the RPV Structural Evaluation portion of the safety evaluation it is stated that, “The proposed power uprate does not change the operating reactor pressure and temperature from the current operating condition.” Therefore, this change should not affect the fracture mechanics evaluation performed after the Extended Power Uprate.

Per Table 6-1 of GE-NE-523-A71-0594-A (NRC approved Alternate BWR Feedwater Nozzle Inspection Requirements) the Required Time between UT examinations of the Feedwater may be calculated as the Allowable Time multiplied by a Factor which is based on the sparger configuration and the type of UT examination. HNP-1 has a triple sleeve, double piston sparger configuration and uses automated - full RF recording UT. For an Allowable Time of **32 years** the Required Time is 32×0.33 or 10.6 years (≈ 10 years). However, Note 2 of Table 6-1 indicates that a 10-year frequency is the maximum time between inspections for the blend radius area (region 1) and a portion of the nozzle bore (Region 2). Therefore, 10 years will be used as the frequency of examinations.

On December 3, 2003, discussions were held with Gary Stevens of Structural Integrity Associates. Per Gary Stevens’s August 9, 1999 E-Mail (and reconfirmed during the 12/3/03 call) the use of 10% of wall thickness allowable flaw size for feedwater nozzles is based on Subsection IWB-3611 which permits an allowable flaw size of 10% of the critical size for normal operating conditions. In the case of the feedwater nozzle, the critical flaw size can be shown to be greater than the wall thickness, so the critical flaw size is set equal to the wall thickness, t . Thus, $0.10 * t$ is used for the allowable flaw size. It was confirmed that the blend radius was the most limiting area for crack growth; therefore, GE’s selection of 10% of the blend radius and a 10-year examination frequency

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was appropriate. Therefore, because the scheduling is the same as Code frequency these examinations will be treated as Category B-D, Item 3.100 Code examinations in Schedule Works. The only difference is that they are referred to as “Nozzle Inner Radius and Bore” examinations.

Additionally, NUREG-0619 also addressed the examination of the Thermal Mixing Tee where CRD is routed to Feedwater. These examinations are not addressed in GE-NE-523-A71-0594-A; therefore, they will be continued each outage as required by NUREG-0619.

This piping is designated as Category C-0619 in Schedule Works.

Class 2 Thin-Wall Piping

The NRC’s safety evaluation dated 6/16/97 of the 3rd Interval Program also indicated, that in addition to the 1989 Code required examinations, volumetric examination of a 7.5% sample of a portion of thin-wall, non-exempt piping within the RHR, CS, and HPCI systems would be performed. Per Table IWC-2500-1, Category C-F-2 only carbon steel welds $\geq 3/8$ ” (0.375”) thick require examination; however, SNC agreed to volumetrically examine a 7.5% sample of the welds in this thin wall piping. The Class 2 augmented section of the ISI Program indicates that the portion of thin-wall, non exempt piping subject to examination is:

- a. The thin-wall piping on the downstream side of pumps whose integrity is needed to maintain the pressure boundary for the system to perform its intended RHR, ECC, or CHR safety function.
- b. The Branch connection piping out to the first normally closed valve, or to the first valve capable of automatic closure, or to a flange when the piping downstream of the valve or flange has a non-ECCS, non-RHR, or non-CHR function.

Per pipe schedule tables, this thin wall piping is limited to Schedule 40 (or thinner) piping 6”, 8”, or 10” in diameter discharge piping in RHR and CS. The following table shows the Class 2 welds in the thin wall scope and defines the welds that do not meet criteria (a) or criteria (b).

There are approximately 65 welds that meet criteria (a) or criteria (b); therefore, at least five welds are required to be examined to meet the 7.5% requirement. Within the required scope, five were examined and the requirements were met. See Table 2 below.

This piping is part of the Category C-F-2 population in Schedule Works.

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**Table 2
THIN-WALL PIPING AUGMENTED EXAMINATIONS**

	Weld	Fig	Exam	I4P1	I4P2	I4P3	Comments
1.	1E11-2RHR-6A-DS-1	B-52					
2.	1E11-2RHR-10A-DS-1	B-52					
3.	1E11-2RHR-10A-DS-2	B-52					
4.	1E11-2RHR-6A-TSP-1	B-63					
5.	1E11-2RHR-6A-TSP-2	B-63					
6.	1E11-2RHR-6A-TSP-3	B-63					
7.	1E11-2RHR-6A-TSP-4	B-63					
8.	1E11-2RHR-6A-TSP-5	B-63					
9.	1E11-2RHR-6A-TSP-6	B-63					
10.	1E11-2RHR-6A-TSP-7	B-63					
11.	1E11-2RHR-6A-TSP-8	B-63					
12.	1E11-2RHR-6A-TSP-9	B-63					
13.	1E11-2RHR-6A-TSP-10	B-63					
14.	1E11-2RHR-6A-TSP-11	B-63					
15.	1E11-2RHR-6A-TSP-12	B-63					
16.	1E11-2RHR-6B-DS-1	B-62					
17.	1E11-2RHR-10B-DS-1	B-62					
18.	1E11-2RHR-10B-DS-2	B-62					
19.	1E11-2RHR-10B-DS-3	B-62					
20.	1E11-2RHR-6B-TSP-1	B-65					
21.	1E11-2RHR-6B-TSP-2	B-65					
22.	1E11-2RHR-6B-TSP-3	B-65					
23.	1E11-2RHR-6B-TSP-4	B-65					
24.	1E11-2RHR-6B-TSP-5	B-65					
25.	1E11-2RHR-6B-TSP-6	B-65					
26.	1E11-2RHR-6B-TSP-7	B-65					
27.	1E11-2RHR-6B-TSP-8	B-65		1R23			
28.	1E11-2RHR-6B-TSP-9	B-65					
29.	1E11-2RHR-6B-TSP-10	B-65					
30.	1E11-2RHR-8-FPD-1	B-71				1R26	
31.	1E11-2RHR-8-FPD-2	B-71				1R26	
32.	1E11-2RHR-8-FPD-3	B-71					
33.	1E11-2RHR-8-FPD-4	B-71					
34.	1E11-2RHR-8-FPD-5	B-71					
35.	1E11-2RHR-10A-SWDS-1	B-48					
36.	1E11-2RHR-10A-SWDS-2	B-48					
37.	1E11-2RHR-10A-SWDS-3	B-48					
38.	1E11-2RHR-10A-SWDS-4	B-48					
39.	1E11-2RHR-10A-SWDS-5	B-48		1R23			

**FOURTH INTERVAL AUGMENTED “OTHER” PLAN
HATCH UNIT NO. 1**

Table 2 THIN-WALL PIPING AUGMENTED EXAMINATIONS						
Weld	Fig	Exam	I4P1	I4P2	I4P3	Comments
40. 1E11-2RHR-10A-SWDS-6	B-48					
41. 1E11-2RHR-10A-SWDS-7	B-48					
42. 1E11-2RHR-10A-SWDS-8	B-48					
43. 1E11-2RHR-10A-SWDS-9	B-48					
44. 1E11-2RHR-10A-SWDS-10	B-48					
45. 1E11-2RHR-10A-SWDS-11	B-48					
46. 1E11-2RHR-10A-SWDS-12	B-48					
47. 1E11-2RHR-10B-SWDS-1	B-60					
48. 1E11-2RHR-10B-SWDS-2	B-60					
49. 1E11-2RHR-10B-SWDS-3	B-60					
50. 1E11-2RHR-10B-SWDS-4	B-60			1R25		
51. 1E11-2RHR-10B-SWDS-5	B-60					
52. 1E11-2RHR-10B-SWDS-6	B-60					
53. 1E11-2RHR-10B-SWDS-7	B-60					
54. 1E11-2RHR-10B-SWDS-8A	B-60					
55. 1E11-2RHR-10B-SWDS-9A	B-60					
56. 1E11-2RHR-10B-SWDS-10	B-60					
57. 1E11-2RHR-10B-SWDS-11	B-60					
58. 1E11-2RHR-10B-SWDS-12	B-60					
59. 1E21-2CS-10A-1	B-6					
60. 1E21-2CS-10A-2	B-6					
61. 1E21-2CS-10A-3	B-6					
62. 1E21-2CS-10B-1	B-9					
63. 1E21-2CS-10B-2	B-9					
64. 1E21-2CS-10B-3	B-9					
65. 1E21-2CS-10B-4	B-9					
65 TOTAL WELDS 5 WELDS REQUIRED			2	1	2	
1E11-2RHR-6A-RVD-1	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-2	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-3	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-4	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-5	B-69					Isolable (1E11-F055A) - Not ECC

**FOURTH INTERVAL AUGMENTED “OTHER” PLAN
HATCH UNIT NO. 1**

**Table 2
THIN-WALL PIPING AUGMENTED EXAMINATIONS**

Weld	Fig	Exam	I4P1	I4P2	I4P3	Comments
1E11-2RHR-6A-RVD-6	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-7	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-8	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-9	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-10	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-11	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-12	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-13	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-14	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-15	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-16	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-17	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6A-RVD-18	B-69					Isolable (1E11-F055A) - Not ECC
1E11-2RHR-6B-RVD-1	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-2	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-3	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-4	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-5	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-6	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-7	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-8	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-9	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-10	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-11	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-12	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-13	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-14	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-15	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-16	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-17	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-18	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-19	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-6B-RVD-20	B-73					Isolable (1E11-F055B) - Not ECC
1E11-2RHR-8-FPS-7	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-8	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-9	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-10	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-11	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-12	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-13	B-72					Suction Piping – Not Required

**FOURTH INTERVAL AUGMENTED “OTHER” PLAN
HATCH UNIT NO. 1**

**Table 2
THIN-WALL PIPING AUGMENTED EXAMINATIONS**

Weld	Fig	Exam	I4P1	I4P2	I4P3	Comments
1E11-2RHR-8-FPS-14	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-15	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-16	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-17	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-18	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-19	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-20	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-21	B-72					Suction Piping – Not Required
1E11-2RHR-8-FPS-22	B-72					Suction Piping – Not Required
1E21-2CS-10A-TL-1	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-2	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-3	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-4	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-5	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-6	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-7	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-8	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-9	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-10	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-11	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-12	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10A-TL-13	B-5					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-1	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-2	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-3	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-4	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-6	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-7	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-8	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-9	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-10	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-11	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-12	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-13	B-8					Isolable Test Line – Not ECC, RHR, or CHR
1E21-2CS-10B-TL-14	B-8					Isolable Test Line – Not ECC, RHR, or CHR

FOURTH INTERVAL AUGMENTED “OTHER” PLAN HATCH UNIT NO. 1

Additionally, portions of the Reactor Core Isolation Cooling are designated as Class S on Boundary Diagram HB-16334 and HB-16335. It will be treated using Section XI as a guideline (not as a requirement). As discussed for the Class 2 portion of this piping, this system does not have an RHR, ECC, or CHR function; therefore, the size exemption and the pressure/temperature exemption will also be used for this Class S piping. Lines within Class S were evaluated below for examination potential.

- 6” Suction Line from the Condensate Storage Tank (Designated as 1E51-2RCIC-6PS-1 thru 24 on Figure B-88 and listed as Category CF-R in Schedule Works). This piping is pressure/temperature exempt because it is at static pressure and ambient temperature; therefore, examination of piping welds, integrally welded attachments, and supports is not required.
- 6” Suction Line from valve 1E51-F031 through valve 1E51-F029 (Designated as 1E51-2RCIC-6TS-10, 11, 12, 13, and 14 on Figure B-89 and listed as Category CF-R in Schedule Works). This piping is *pressure/temperature exempt* because it is highly unlikely that it would ever exceed the prescribed pressure/temperature. Therefore, examination of piping welds, integrally welded attachments, and supports is not required.
- 4” Pump Discharge Line – This piping is *size exempt*; therefore, examination of piping welds, integrally welded attachments, and supports is not required. (Not shown in Schedule Works).
- 4” (and less) Steam Supply – This piping is *size exempt*; therefore, examination of piping welds, integrally welded attachments, and supports is not required.. (Not shown in Schedule Works).
- 10” Steam Exhaust from the turbine to valve 1E51-F040 (Designated as 1E51-2RCIC-1 thru 24 and shown as Category CF-R in Schedule Works). This piping is shown on Figures B-24 and B-25 and is not pressure/temperature exempt because of the steam conditions. However, all of this piping is 0.365” nominal wall thickness and therefore does not require examination of the piping welds. The welded attachments and supports on this line are not subject to examination.

As discussed above, when applying Section XI requirements to Category S RCIC there are no requirements for examination. However, RCIC is an important system when considering PRA; therefore, a small sample of welds (designated as Category CF-R), Category supports (designated as Category FA-R), and welded attachments (designated as Category CC-R) were selected. Examinations were chosen on the 6” Suction line (B-88 or B-89) or 10” torus steam discharge line (B-24 or B-25).

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[illegible]

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-0803	H1 1C11-2CRD-8N-SDV-1	B-84	ISI	-	-	-	-	-	-	-
-	1C11-2CRD-8N-SDV-1	CAP TO PIPE	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-10	B-84	ISI	-	-	-	-	-	-	-
-	1C11-2CRD-8N-SDV-10	PIPE TO PIPE	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-11	B-84	ISI	-	s	-	-	-	-	-
-	1C11-2CRD-8N-SDV-11	PIPE TO CAP	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-12	B-84	ISI	-	-	-	-	-	s	-
-	1C11-2CRD-8N-SDV-12	TEE TO PIPE	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-13	B-84	ISI	-	-	-	-	-	-	-
-	1C11-2CRD-8N-SDV-13	PIPE TO CAP	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-2	B-84	ISI	-	-	-	-	-	-	-
-	1C11-2CRD-8N-SDV-2	PIPE TO PIPE	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-2A	B-84	ISI	-	-	-	-	-	-	-
-	1C11-2CRD-8N-SDV-2A	PIPE TO PIPE	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-2B	B-84	ISI	-	-	-	-	-	-	-
-	1C11-2CRD-8N-SDV-2B	PIPE TO PIPE	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-2C	B-84	ISI	-	-	-	-	-	-	-
-	1C11-2CRD-8N-SDV-2C	PIPE TO PIPE	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-3	B-84	ISI	-	-	-	-	-	-	-
-	1C11-2CRD-8N-SDV-3	PIPE TO ELBOW	AUG	-	-	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-	-
			PRE	-	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1		Period 2		Period 3	
				1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-0803	H1 1C11-2CRD-8N-SDV-4		B-84	ISI	-	-	-	-	-
-	1C11-2CRD-8N-SDV-4		ELBOW TO TEE	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-6		B-84	ISI	-	-	-	-	-
-	1C11-2CRD-8N-SDV-6		TEE TO PIPE	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-7		B-84	ISI	-	-	-	-	-
-	1C11-2CRD-8N-SDV-7		PIPE TO ELBOW	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-8		B-84	ISI	-	-	-	-	-
-	1C11-2CRD-8N-SDV-8		ELBOW TO PIPE	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8N-SDV-9		B-84	ISI	-	-	-	-	-
-	1C11-2CRD-8N-SDV-9		PIPE TO PIPE	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-1		B-85	ISI	-	-	-	-	-
-	1C11-2CRD-8S-SDV-1		CAP TO PIPE	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-10		B-85	ISI	-	-	-	-	-
-	1C11-2CRD-8S-SDV-10		PIPE TO PIPE	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-11		B-85	ISI	-	-	-	-	-
-	1C11-2CRD-8S-SDV-11		PIPE TO CAP	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-12		B-85	ISI	-	-	-	-	-
-	1C11-2CRD-8S-SDV-12		TEE TO PIPE	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-13		B-85	ISI	-	-	-	-	-
-	1C11-2CRD-8S-SDV-13		PIPE TO CAP	AUG	-	-	-	-	-
2S	C11		OWN	-	-	-	-	-	-
			PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
C-0803	H1 1C11-2CRD-8S-SDV-2		B-85	ISI	-	-	-	-	-	-
-	1C11-2CRD-8S-SDV-2		PIPE TO PIPE	AUG	-	-	-	-	-	-
2S	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-2A		B-85	ISI	-	-	-	-	-	-
-	1C11-2CRD-8S-SDV-2A		PIPE TO PIPE	AUG	-	-	-	-	-	-
2S	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-3		B-85	ISI	-	-	-	-	-	-
-	1C11-2CRD-8S-SDV-3		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2S	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-4		B-85	ISI	-	-	-	-	-	-
-	1C11-2CRD-8S-SDV-4		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2S	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-5		B-85	ISI	-	-	-	-	-	-
-	1C11-2CRD-8S-SDV-5		PIPE TO TEE	AUG	-	-	-	-	-	-
2S	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-6		B-85	ISI	-	-	-	-	-	-
-	1C11-2CRD-8S-SDV-6		TEE TO PIPE	AUG	-	-	-	-	-	-
2S	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-7		B-85	ISI	-	-	-	-	-	-
-	1C11-2CRD-8S-SDV-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
2S	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-8		B-85	ISI	-	-	-	-	-	-
-	1C11-2CRD-8S-SDV-8		ELBOW TO PIPE	AUG	-	-	-	-	-	-
2S	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
C-0803	H1 1C11-2CRD-8S-SDV-9		B-85	ISI	-	-	-	-	-	-
-	1C11-2CRD-8S-SDV-9		PIPE TO PIPE	AUG	-	-	-	-	-	-
2S	C11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
CF-R	H1 1E51-2RCIC-10-TD-1		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-1		FLANGE TO TEE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-10	ISI//	B-24	ISI	-	s	-	-	-	-
-	1E51-2RCIC-10-TD-10		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-11	ISI//	B-24	ISI	-	s	-	-	-	-
-	1E51-2RCIC-10-TD-11		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-12		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-12		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-13		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-13		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-14		B-25	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-14		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-15		B-25	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-15		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-16		B-25	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-16		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-17		B-25	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-17		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-18		B-25	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-18		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
CF-R	H1 1E51-2RCIC-10-TD-19		B-25	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-19		PIPE TO TEE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-2		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-2		CAP TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-20		B-25	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-20		TEE TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-21	ISI//	B-25	ISI	-	-	-	s	-	-
-	1E51-2RCIC-10-TD-21		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-22	ISI//	B-25	ISI	-	-	-	s	-	-
-	1E51-2RCIC-10-TD-22		ELBOW TO VALVE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-3		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-3		PIPE TO TEE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-4		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-4		TEE TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-5A		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-5A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-6		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-6		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-7		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-7		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
CF-R	H1 1E51-2RCIC-10-TD-8A		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-8A		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-8B		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-8B		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-8C		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-8C		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-8D		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-8D		PIPE TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-10-TD-9		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-9		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-1		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-1		REDUCER TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-10		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-10		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-11	ISI//	B-88	ISI	-	-	-	-	S	-
-	1E51-2RCIC-6-PS-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-12	ISI//	B-88	ISI	-	-	-	-	S	-
-	1E51-2RCIC-6-PS-12		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-13		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-13		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
CF-R	H1 1E51-2RCIC-6-PS-14		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-14		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-15		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-15		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-16		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-16		PIPE TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-17		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-17		PIPE TO TEE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-18		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-18		TEE TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-18A		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-18A		PIPE TO VALVE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-19		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-19		TEE TO TEE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-2		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-2		PIPE TO TEE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-20		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-20		TEE TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-21		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-21		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
CF-R	H1 1E51-2RCIC-6-PS-22		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-22		ELBOW TO VALVE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-23		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-23		VALVE TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-23A		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-23A		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-24		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-24		ELBOW TO NOZZLE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-3		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-3		TEE TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-4		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-4		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-5		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-5		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-6		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-6		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-7		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-7		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-PS-8		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-8		PIPE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
CF-R	H1 1E51-2RCIC-6-PS-9		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-9		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-TS-10		B-89	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-TS-10		VALVE TO ELBOW	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-TS-11		B-89	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-TS-11		ELBOW TO PIPE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-TS-12		B-89	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-TS-12		PIPE TO VALVE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-TS-13		B-89	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-TS-13		VALVE TO VALVE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-6-TS-14		B-89	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-TS-14		VALVE TO TEE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CF-R	H1 1E51-2RCIC-8-RD-1		B-25	ISI	-	-	-	-	-	-
-	1E51-2RCIC-8-RD-1		FLANGE TO TEE	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1				Period 2				Period 3			
					1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27		
FA-R	H1 1E11-RHRH-128		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-128		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-129		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-129		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-130		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-130		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-131		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-131		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-132		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-132		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-133		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-133		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-134		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-134		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-135		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-135		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-263		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-263		ANCHOR	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-264		B-88	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E11-RHRH-264		RESTRAINT	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
FA-R	H1 1E11-RHRH-265		B-88	ISI	-	-	-	-	-	-
-	1E11-RHRH-265		RESTRAINT	AUG	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-266		B-88	ISI	-	-	-	-	-	-
-	1E11-RHRH-266		ANCHOR	AUG	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-266A		B-88	ISI	-	-	-	-	-	-
-	1E11-RHRH-266A		RESTRAINT	AUG	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E11-RHRH-267		B-88	ISI	-	-	-	-	-	-
-	1E11-RHRH-267		RESTRAINT	AUG	-	-	-	-	-	-
S	E11			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCICH-16		B-88	ISI	-	-	-	-	-	-
-	1E51-RCICH-16		SUPPORT	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCICH-702	ISI//	B-89	ISI	-	s	-	-	-	-
-	1E51-RCICH-702		RESTRAINT	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-20	ISI//	B-24	ISI	-	-	-	-	s	-
-	1E51-RCSEH-20		SNUBBER	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-21		B-25	ISI	-	-	-	-	-	-
-	1E51-RCSEH-21		SNUBBER	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-22		B-25	ISI	-	-	-	-	-	-
-	1E51-RCSEH-22		RESTRAINT	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-3		B-24	ISI	-	-	-	-	-	-
-	1E51-RCSEH-3		RESTRAINT	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

Category, ItemNO, Class	Summary / CompID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
FA-R	H1 1E51-RCSEH-3A		B-24	ISI	-	-	-	-	-	-
-	1E51-RCSEH-3A		SPRING	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-4		B-25	ISI	-	-	-	-	-	-
-	1E51-RCSEH-4		RESTRAINT	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-4A		B-25	ISI	-	-	-	-	-	-
-	1E51-RCSEH-4A		SPRING	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-5		B-25	ISI	-	-	-	-	-	-
-	1E51-RCSEH-5		SPRING	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-714		B-24	ISI	-	-	-	-	-	-
-	1E51-RCSEH-714		SPRING	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-715		B-24	ISI	-	-	-	-	-	-
-	1E51-RCSEH-715		SNUBBER	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-717		B-24	ISI	-	-	-	-	-	-
-	1E51-RCSEH-717		SPRING	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-718		B-24	ISI	-	-	-	-	-	-
-	1E51-RCSEH-718		RESTRAINT	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-719		B-24	ISI	-	-	-	-	-	-
-	1E51-RCSEH-719		SNUBBER	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
FA-R	H1 1E51-RCSEH-720	ISI//	B-24	ISI	-	-	-	-	-	-
-	1E51-RCSEH-720		SNUBBER	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-

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Category, ItemNO, Class	Summary / ComplD / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case	Period 1				Period 2				Period 3				
				1HR22a	1HR23			1HR24	1HR25			1HR26	1HR27			
FA-R	H1 1E51-RCSEH-721		B-25	ISI	-	-	-	-	-	-	-	-	-	-	-	-
-	1E51-RCSEH-721		SNUBBER	AUG	-	-	-	-	-	-	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-	-	-	-	-	-	-
				PRE	-	-	-	-	-	-	-	-	-	-	-	-

Category, ItemNO, Class	Summary / ComplID / System	Scope / Method / Procedure	Iso No. Comp. Desc. Code Case		Period 1		Period 2		Period 3	
					1HR22a	1HR23	1HR24	1HR25	1HR26	1HR27
CC-R	H1 1E51-2RCIC-10-TD-10PS-1 AND 2		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-10PS-1 AND 2		E51-RCSEH-3 Lug	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CC-R	H1 1E51-2RCIC-10-TD-12PS-1		B-24	ISI	-	-	-	-	s	-
-	1E51-2RCIC-10-TD-12PS-1		E51-RCSEH-719 LUG	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CC-R	H1 1E51-2RCIC-10-TD-14PS-1 THRU 4		B-25	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-14PS-1 THRU 4		E51-RCSEH-4	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CC-R	H1 1E51-2RCIC-10-TD-4PL-1 THRU 4		B-24	ISI	-	-	-	-	-	-
-	1E51-2RCIC-10-TD-4PL-1 THRU 4		E51-RCSEH-714	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CC-R	H1 1E51-2RCIC-6-PS-13PS-1 THRU 3		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-13PS-1 THRU 3		E11-RHRH-263	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CC-R	H1 1E51-2RCIC-6-PS-18PS-1	ISI//	B-88	ISI	-	-	-	-	s	-
-	1E51-2RCIC-6-PS-18PS-1		E51-RCICH-16	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-
CC-R	H1 1E51-2RCIC-6-PS-5PS-1 AND 2		B-88	ISI	-	-	-	-	-	-
-	1E51-2RCIC-6-PS-5PS-1 AND 2		E11-RHRH-266 LUG	AUG	-	-	-	-	-	-
S	E51			OWN	-	-	-	-	-	-
				PRE	-	-	-	-	-	-