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APR 10 1985

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ENGINEERING AND RESEARCH

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U. S. Regulatory Commission
Washington, DC 20555

Docket No. 50-352

Subject: Limerick Generating Station, Unit 1
Preservice Inspection (PSI) Program

- References:
1. Telecon between H. D. Honan, D. L. Schmidt (PECo) and R. Martin, C. Cheng, M. Hum (NRC), dated April 3, 1985
 2. Letter, J. S. Kemper (PECo) to A. Schwencer (NRC), dated July 17, 1984
 3. Letter, J. S. Kemper/V. S. Boyer (PECo) to A. Schwencer (NRC), dated August 23, 1984
 4. Letter, J. S. Kemper (PECo) to A. Schwencer (NRC), dated August 30, 1984

- Attachments:
1. Limerick Unit 1 PSI Relief Requests (Revisions Only)
 2. Component Summary Table, Rev. 2
 3. Attachment #1 to Summary Report #1
 4. Safety Impact Summary, Rev. 1

File: GOVT 1-1 (NRC)

Dear Mr. Schwencer:

We have recently completed the review of the reactor pressure vessel and piping component PSI examination data and, as discussed in the Reference 1 telecon, are providing the above attachments as revisions and additions to References 2, 3 and 4. Attachments 1 through 4 provide additional information regarding relief requests from Impractical PSI examinations for Unit 1.

Many of the changes shown in the attachments are editorial in nature intended to clarify information previously submitted. A summary of the content of each attachment is as follows:

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Attachment 1

This Attachment is comprised of editorial revisions to a number of relief requests. These revisions clarify wording and include the changes necessary to maintain consistency with the Component Summary Table. Also included are new Relief Requests 27 and 28 which involve a support attachment weld and bolting on the RHR heat exchangers.

Attachment 2

This Attachment is comprised of the Component Summary Table, Rev. 2. The Table has been revised to include miscellaneous additions and deletions. These additions/deletions are specifically identified as such by notes in the margin of the table. All other revisions are editorial in nature, such as clarification of the component/weld identification.

Attachment 3

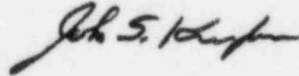
The included report, "Attachment #1 to Summary Report #1", supports revised PSI relief request No. 5. This report is provided as an addition to Tab 8 of General Electric's "USNRC Regulatory Guide 1.150 Report, Limerick Unit #1", previously submitted as Attachment 3 to Reference 2.

Attachment 4

This Attachment is comprised of revisions of an editorial nature to the Safety Impact Summary.

Should any additional information be required, please do not hesitate to contact us.

Sincerely,



DLS/pd04098512

Copy to: T. E. Murley, Regional Administrator, NRC Region I

See Attached Service List

cc: Judge Helen F. Hoyt	(w/o enclosure)
Judge Jerry Harbour	(w/o enclosure)
Judge Richard F. Cole	(w/o enclosure)
Troy B. Conner, Jr., Esq.	(w/o enclosure)
Ann P. Hodgdon, Esq.	(w/o enclosure)
Mr. Frank R. Romano	(w/o enclosure)
Mr. Robert L. Anthony	(w/o enclosure)
Ms. Phyllis Zitzer	(w/o enclosure)
Charles W. Elliot, Esq.	(w/o enclosure)
Zori G. Ferkin, Esq.	(w/o enclosure)
Mr. Thomas Gerusky	(w/o enclosure)
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Angus R. Love, Esq.	(w/o enclosure)
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Atomic Safety & Licensing Appeal Board	(w/o enclosure)
Atomic Safety & Licensing Board Panel	(w/o enclosure)
Docket & Service Section	(w/o enclosure)
Mr. James Wiggins	(w/o enclosure)
Mr. Timothy R. S. Campbell	(w/o enclosure)

Attachment 1

Limerick Unit 1 PSI Relief Requests (revisions only)

ATTACHMENT 1

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

5. Class 1 Full Penetration Welds of Nozzles in Vessels-Inspection
Program B Code Item No. B3.90. Category B-D

Code Requirement:

Those Reactor Vessel nozzle-to-vessel welds shall be volumetrically examined per Table IWB-2500-1, Category B-D, Item No. B3.90. The examinations shall cover 100% of the welds and shall be performed completely, once, as a preservice examination requirement. The examination volume shall be as shown in Figure IWB-2500-7 (b) including the adjacent areas of nozzle and vessel base metal.



Relief Request:

Relief is requested from examining 100% of the required volume of four (4) nozzle-to-vessel welds identified as N2B, N2G, N4B and N4D. A description of the examination coverage, percent complete, and the obstruction(s) for each nozzle-to-vessel weld is included as Attachment 3 of this submittal.



Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

6. Class 1 Pressure Retaining Welds in Piping
Code Item No. B4.5, Category B-J

Code Requirement:

Those pipe longitudinal and circumferential pressure retaining welds included in Code Category B-J of Table IWR-2500 shall be volumetrically examined per Item No. B4.5 of Table IWR-2600. The examinations shall cover 100% of the pressure retaining welds and shall be performed completely, once, as a preservice examination requirement. The examination volume shall include the weld plus the base metal on each accessible side of the weld for a distance of 1/2T or 1 inch, whichever is smaller.

Relief Request:

Relief is requested from examining 100% of the required volume for reasons noted in the Component Summary Table. Examinations were performed perpendicular and parallel to the weld axis in accordance with subarticles III-4420 and III-4430, respectively. The percent complete of each examination is also noted in the Table. There are 67 welds included in this relief request.

Justification for Granting Relief:

The integrity of the piping pressure boundary has been verified by construction code testing requirements. During fabrication, examinations were performed in accordance with that edition of ASME Section III in effect at the time of procurement. Field examinations, which included radiography, magnetic particle, liquid penetrant, and hydrostatic pressure tests, were performed in accordance with the 1974 Edition of Section III, including the Addenda through Winter, 1974.

The ASME Section XI preservice ultrasonic examinations were augmented by complete liquid penetrant tests which were performed in accordance with the 1977 Edition of Section XI, including the Addenda through Summer, 1978.

The minimal safety impact of incomplete Section XI preservice examinations described above is explained in the Safety Impact Summary which postulates that a defect has propagated through-wall undetected. Sufficient system redundancy, leak detection capability, and alternative systems have been included in the plant design to assure plant safety.

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

8. Class 2 Support Members for Pumps
Code Item No. B5.4, Category B-K-1

Code Requirement:

Those pump integrally-welded external support attachment welds included in Code Category B-K-1 of Table IWB-2500 shall be volumetrically examined per Item No. B5.4 of Table IWB-2600. The examinations shall cover 25% of the supports with attachment welds and shall be performed completely, once, as a preservice examination requirement. The examination volume shall include the attachment weld to the pressure retaining boundary plus the base metal beneath the weld and along the attachment for a distance of 2 support thicknesses.

Relief Request:

Relief is requested from performing the volumetric examination, obstructed by the material properties of the pump pressure boundary. There are 4 integrally welded support attachments per reactor recirculation pump for a total of 8 supports included in this relief request.

Justification for Granting Relief:

The structural integrity of the support attachments and welds to the pressure boundary castings has been verified by construction code testing requirements. The reactor recirculation pumps were fabricated and tested in accordance with the 1968 Draft ASME Code for Pumps and Valves for Nuclear Power, including the March 1970 Addenda. Pump pressure boundary castings were radiographed. Surface examinations were performed on all internal and external surfaces and were repeated for final machined surfaces. All bolting was visually examined. A hydrostatic pressure test was performed at 1.3 times the design pressure.

The pump pressure boundary castings, material specification ASME SA-351 GR. CF8M, have precluded ultrasonic testing from providing a meaningful Section XI volumetric examination. It is intended that liquid penetrant surface examinations serve as an acceptable alternative.

The minimal safety impact of incomplete Section XI preservice examinations described above is explained in the Safety Impact Summary which postulates that a defect has propagated through-wall, undetected. Sufficient system redundancy, leak detection capability, and alternative systems have been included in the plant design to assure plant safety.


Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

10. Class 1 Valve Bodies
Code Item No. B6.7, Category B-M-2

Code Requirement:


Those valve internal pressure boundary surfaces included in Code Category B-M-2 of Table IWB-2500 shall be visually examined per Item No. B6.7 of Table IWB-2600. The examinations shall cover one valve in each group of valves of the same constructional design and manufacturer that performs similar functions in a system and shall be performed completely, once, as a preservice examination requirement.

Relief Request:

Relief is requested from performing the required visual examinations. These valves are identified in Part 2 of the Component Summary Table. There are 68 valves comprising 18 groups included in this relief request. | 

Justification for Granting Relief:

The integrity of each valve's pressure boundary has been verified by construction code testing requirements. This code category includes both cast and forged valves that were fabricated and tested in accordance with that edition of ASME Section III in effect at the time of procurement. Note that some valves were fabricated and tested in accordance with the 1968 Draft ASME Code for Pumps and Valves for Nuclear Power and Addenda. Generally, all cast valves and components were radiographed. Surface examinations were performed on the internal, external, and component surfaces of both cast and forged valves and were repeated for final machined surfaces. All bolting was visually examined. Hydrostatic pressure tests in excess of 1.5 times the design pressure were performed.

It is intended that the visual examination of the valve internals, performed by the manufacturer, serve as an acceptable alternative to the Section XI preservice requirement. In addition, field inspections prior to installation as well as successful pre-operational tests have provided reasonable assurance that wear from mechanical misalignment is not a factor. There is no impact on plant safety as a result of this relief request. | 

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

12. Class 2 Integrally Welded Support Attachments to Vessels
Code Item No. C1.3, Category C-C

Code Requirement:

Those vessel integrally welded external support attachment welds included in Code Category C-C of Table IWC-2520 shall be surface examined per Item No. C1.3 of Table IWC-2600. The examinations shall cover 100% of the welds and shall be performed completely, once, as a preservice examination requirement. The examination surface shall include 100% of the attachment weld.

Relief Request:

Relief is requested from examining 100% of the required surface due to attachment design. There are 16 attachment welds in 2 heat exchangers included in this relief request.



Justification for Granting Relief:

The integrity of the heat exchanger pressure boundary has been verified by construction code testing requirements. Examinations were performed in accordance with the applicable material specifications and the 1968 Editions of ASME Section III, Class C and Section VIII, Division 1, for the shell and tube sides, respectively. Shell plates received ultrasonic and magnetic particle examinations. The entire shell, including nozzle-to-vessel and support attachment welds was radiographed. Magnetic particle examinations were repeated for final machined surfaces and welds. All bolting and machined surfaces were visually examined. A hydrostatic pressure test was performed at 1.5 times the design pressure.

The minimal safety impact of incomplete Section XI preservice examinations described above is explained in the Safety Impact Summary which postulates that a defect has propagated through-wall, undetected. Sufficient system redundancy, leak detection capability, and alternative systems have been included in the plant design to assure plant safety.

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

13. Class 2 Pressure Retaining Welds in Piping
Code Item No. C2.1, Categories C-F and C-G

Code Requirements:

Those pipe circumferential butt welds included in Code Categories C-F and C-G of Table IWC-2520 shall be volumetrically examined per Item No. C2.1 of Table IWC-2600. The examinations shall cover 100% of the C-F welds and 50% of the C-G welds and shall be performed completely, once, as a preservice examination requirement. The examination volume shall include the weld plus the base metal on each accessible side of the weld for a distance of 1/2T or 1 inch, whichever is smaller.

Relief Request:

Relief is requested from examining 100% of the required volume of the C-F welds for reasons noted in the Component Summary Table. Examinations were performed perpendicular and parallel to the weld axis in accordance with subarticles III-4420 and III-4430, respectively. The percent complete of each examination is also noted in the Table. There are 64 welds included in this relief request.



Justification for Granting Relief:

The integrity of the piping pressure boundary has been verified by construction code testing requirements. During fabrication, examinations were performed in accordance with that edition of ASME Section III in effect at the time of procurement. Field examinations, which included radiography, magnetic particle, liquid penetrant and hydrostatic pressure tests, were performed in accordance with the 1974 Edition of Section III Addenda through Winter, 1974.



The ASME Section XI preservice ultrasonic examinations were augmented by complete liquid penetrant tests (exception: RH 190A), which were performed in accordance with the 1977 Edition of Section XI, including the Addenda through Summer, 1978.



The minimal safety impact of incomplete Section XI preservice examinations described above is explained in the Safety Impact Summary which postulates that a defect has propagated through-wall, undetected. Sufficient system redundancy, leak detection capability, and alternative systems have been included in the plant design to assure plant safety.

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

16. Class 2 Support Members for Piping
Code Item No. C2.5, Category C-E-1

Code Requirement:

Those pipe integrally-welded attachment welds included in Code Category C-E-1 of Table IWC-2520 shall be surface examined per Item No. C2.5 of Table IWC-2600. The examinations shall include 100% of the supports with attachment welds and shall be performed completely, once, as a preservice examination requirement. The examination surface shall include the attachment weld to the pressure retaining boundary plus the the base metal beneath the weld and along the attachment for a distance of 2 support thicknesses.

Relief Request:

Relief is requested from the base metal area requirement of Table IWC-2520. For preservice inspection, the examination surface shall be in accordance with the 1980 Edition of ASME Section XI, including the Addenda through Winter 1981, Figure IWC-2500-5. The preservice examinations shall include the attachment weld to the pressure retaining boundary plus the base metal adjacent to the weld and along the attachment for a distance of 1/2 inch on all sides of the weld.

During the preservice inspection, some examinations were partially obstructed by additional hardware welded to the integral attachment or completely obstructed due to inaccessibility (e.g., the 11 Type XXIII penetration supports encased in concrete). Pursuant to the 1974 Edition of ASME Section XI, paragraph IWC-2100(b), construction NDE records for full penetration integral attachment welds were used, where possible, to supplement the preservice examinations. For these full penetration welds, the construction Code and Figure IWC-2500-5 require the same areas to be examined.

The component summary table lists all Quality Group R supports with integral attachment welds along with the incomplete examination analysis report (IEAR) number (where applicable), the percent complete for each examination as well as those preservice examinations that could be supplemented with the construction NDE results. Note: the reported percent complete is based on the 1980 Edition of Section XI, Figure IWC-2500-5.

Including the 11 Type XXIII penetration supports, there are a total of 149 supports included in this relief request.

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

16. Continued

Justification for Granting Relief:

The structural integrity of the support attachments, welds, and piping pressure boundary has been verified by construction code testing requirements. Construction NDE included surface examinations (except the penetration supports) and hydrostatic pressure tests performed in accordance with the 1974 Edition of ASME Section III, as modified by the Winter 1974 Addenda.

For the penetration supports, the attachment welds and base metal were surface examined in accordance with the 1968 edition of ASME Section III including Addenda through Winter 1970, except 1971 edition including Addenda through Summer 1972 for penetration X-207A.



Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

17. Class 2 Pressure Retaining Welds in Pumps
Code Item No. C3.1, Categories C-F and C-G

Code Requirement:

Those pump casing weld joints included in Code Categories C-F and C-G of Table IWC-2520 shall be volumetrically examined per Item No. C3.1 of Table IWC-2600. The examinations shall cover 100% of the C-F welds and 50% of the C-G welds and shall be performed completely, once, as a preservice examination requirement. The examination volume shall include 100% of the weld plus the base metal for one wall thickness beyond the edge of the weld.

Relief Request:

Relief is requested from examining 100% of the required volume of the C-F welds for reasons noted in the Component Summary Table. There are 56 welds included in this relief request.

Justification for Granting Relief:

The integrity of the RHR and Core Spray pump pressure boundaries has been verified by construction code testing requirements. Examinations were performed in accordance with the applicable material specification and that edition of ASME Section III in effect at the time of procurement. The pump casings were radiographed and liquid penetrant tested. Surface examinations were repeated for final machined surfaces. Pump shell plates received ultrasonic and magnetic particle tests. All bolting was visually examined. Hydrostatic pressure tests were performed at 1.3 times the design pressure.

The ASME Section XI preservice ultrasonic examination of the shell welds was augmented by complete liquid penetrant tests, which were performed in accordance with the 1977 Edition of Section XI, including the Addenda through Summer 1978.

The minimal safety impact of incomplete Section XI preservice examinations described above is explained in the Safety Impact Summary which postulates that a defect has propagated through-wall undetected. Sufficient system redundancy, leak detection capability, and alternative systems have been included in the plant design to assure plant safety.

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME R&PV Code, Section XI

17. Additional Information

The following additional information was included in Mr. J. S. Kemper (PECo) letter to Mr. A. Schwencer (NRC), dated August 23, 1984.

1. Weld identification figures from the Preservice Program Plan, 80A1558 for both the RHR and Core Spray pumps.
2. Excerpts from the Core Spray pump Owners' Manual (including General Arrangement Diagram) which provide general design notes for the pump foundations. These notes are typical of both RHR and Core Spray pumps.
3. Photographs (3) showing the pump foundation arrangement at the inlet nozzles for both the RHR and Core Spray pumps.

Inservice inspection of those pump shell welds that are incased in concrete must be deferred until such time that the pump is removed for maintenance. Either visual, surface or volumetric examinations may be performed depending on ALARA considerations and equipment availability. Visual examinations from the exterior will be performed during system pressure tests. Shell leakage can be detected at the foundation construction joints.



Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

19. Class 1 Pressure Retaining Welds in Piping
Code Item No. B4.5, Category B-J

This relief request is withdrawn per Mr. J. S. Kemper (PECo) letter to Mr. A. Schwencer (NRC) dated August 30, 1984.



Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

20. Class 2 Pressure Retaining Welds in Piping
Code Item No. C2.1, Categories C-F and C-G

This relief request is withdrawn per Mr. J. S. Kemper (PECo) letter to Mr. A. Schwencer (NRC) dated August 30, 1984.



Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

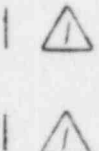
21. Class 2 Pressure Retaining Welds in Pressure Vessel
Code Item No. Cl.1, Category C-A

Code Requirement:

Those shell and head circumferential welds included in Code Category C-A of Table IWC-2520 shall be volumetrically examined per Item No. Cl.1 of Table IWC-2600. The examinations shall cover at least 20% of each circumferential weld, uniformly distributed among three areas around the vessel circumference, and shall be performed completely, once, as a preservice examination requirement. The examination volume shall include the weld plus the base metal for one plate thickness beyond the edge of the weld joint.

Relief Request:

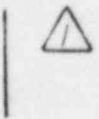
Relief is requested from our Preservice Inspection Program Plan requirement to examine 100% of each vessel shell circumferential weld for reasons noted in the Component Summary Table. There are 2 welds in the "A" and 2 welds in the "B" RHR heat exchangers included in this relief request.



Justification for Granting Relief:

The integrity of the heat exchanger pressure boundary has been verified by construction code testing requirements. Examinations were performed in accordance with the applicable material specifications and the 1968 Editions of ASME Section III, Class C and Section VIII, Division 1, for the shell and tube sides, respectively. Shell plates received ultrasonic and magnetic particle examinations. The entire shell, including nozzle-to-nozzle and support attachment welds was radiographed. Magnetic particle examinations were repeated for final machined surfaces and welds. All bolting and machined surfaces were visually examined. A hydrostatic pressure test was performed at 1.5 times the design pressure.

As noted in the Component Summary Table, the ultrasonic examination coverage, achieved during the preservice inspection, exceeds ASME Section XI (74/S75) requirements. Since the Code coverage requirement has been met, relief is requested only from the coverage requirement established in the Program Plan.



The minimal safety impact of incomplete Section XI preservice examinations described above is explained in the Safety Impact Summary which postulates that a defect has propagated through-wall, undetected. Sufficient system redundancy, leak detection capability, and alternative systems have been included in the plant design to assure plant safety.

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

24. Class 2 Pressure Retaining Bolting Exceeding 1-inch in Diameter
Code Item No. C4.2, Category C-D

Code Requirement:

Those valve bolting components included in Code Category C-D of Table IWC-2520 shall be visually and either surface or volumetrically examined per Item No. C4.2 of Table IWC-2600. Bolting may be examined either in place under tension, when the connection is disassembled, or when the bolting is removed. Examinations shall cover 10% of the bolting components, threads in the base material and flange ligaments between threaded stud holes for each bolted joint, but not less than two bolts or studs per joint and shall cover 100% of the bolting per inspection interval. The examinations shall include bolts, studs, nuts, bushings, washers, and threads in the base material and flange ligaments between threaded stud holes. Bushings, threads, and ligaments in base material and flanges are required to be examined only when the connection is disassembled.

Relief Request:

Relief is requested from completing the Code examinations for 100% of the bolts in each bolting set as scheduled in the PSI Program Plan. The examination(s), obstruction (where applicable) and number of bolts per valve are noted in the Component Summary Table. There are 4 bolting sets included in this relief request.



Justification for Granting Relief:

The integrity of the valve pressure retaining bolting has been verified by Construction Code testing requirements. Examinations were performed in accordance with the material specification and that edition of ASME Section III in effect at the time of procurement. Visual examinations were performed on the threads, shanks, and heads (where applicable). Surface examinations were performed on either the finished bolting or the material stock just prior to threading. It is intended that the examinations performed in accordance with the Construction Code serve as an acceptable alternative to the Section XI preservice requirements.

Except for valves HV-51-182A and HV-51-182R, Section XI preservice examinations were performed with the bolting in place, under tension. Visual and surface examinations were performed to satisfy Section XI requirements. In addition, ultrasonic examinations were performed on the studs/bolts, where practical.



Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

24. Continued

The pressure retaining bolting for HV-51-182A and HV-51-182B were magnetic particle examined by qualified personnel in accordance with the requirements of the draft ASME Section III, 1968 edition including addenda through Summer 1970 for Class 1 valves.

All bolting included in this relief request is less than 2-inches in diameter. The first interval and successive inservice inspection programs will be based on the 1980 edition (or later) including addenda through Winter 1981 (or later) of the ASME Section XI code. Therefore, only those pressure retaining class 2 bolting exceeding 2-inches in diameter will be examined during each inservice inspection interval.



Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

25. Class 1 Pressure Retaining Welds in Piping
Code Item No. B4.5, Category B-J

Code Requirement:

Those pipe circumferential and longitudinal pressure retaining welds included in Code Category B-J of Table IWB-2500 shall be volumetrically examined per Item No. B4.5 of Table IWB-2600. The following data is required to be recorded to document the examinations per subarticle III-4500:

- a. data sheet identity and date;
- b. examination personnel;
- c. applicable calibration sheet identity;
- d. examination procedure and revision;
- f. surface from which examination was conducted;
- g. record of indications (or lack of) which includes search unit location and orientation applicable to reflector; peak amplitude, reference level, and end points at reference level (parallel to reflector) along with the minimum and maximum sweep readings to the reflector;
- h. date and time period of the examination.

Relief Request:

Relief is requested from the recording requirement of item III-4500 (g) as applied to geometric reflectors. There are 42 welds included in this relief request. These welds are identified in the Component Summary Table.

Justification for Granting Relief:

For geometric reflectors, the information not recorded on a consistent basis was the circumferential location (L) of the search unit, relative to the zero datum, for the peak amplitude response. ID root geometry which was recorded as "intermittent 360" can be confirmed by data plots and/or review of the ASME Section III radiographs. There is no impact on plant safety as a result of this relief request.

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B&PV Code, Section XI

26. Class 2 Pressure Retaining Welds in Piping
Code Item No. C2.1, Categories C-F and C-G

Code Requirement:

Those pipe circumferential pressure retaining welds included in Code Categories C-F and C-G of Table IWC-2520 shall be volumetrically examined per Item No. C2.1 of Table IWC-2600. The following data is required to be recorded to document the examinations per subarticle III-4500.

- a. data sheet identity and date;
- b. examination personnel;
- c. applicable calibration sheet identity;
- d. examination procedure and revision;
- f. surface from which examination was conducted;
- g. record of indications (or lack of) which includes search unit location and orientation applicable to reflector; peak amplitude, reference level, and end points at reference level (parallel to reflector) along with the minimum and maximum sweep readings to the reflector;
- h. date and time period of the examination.

Relief Request:

Relief is requested from the recording requirement of item III-4500 (g) as applied to geometric reflectors. There are 86 welds included in this relief request. These welds are identified in the Component Summary Table.



Justification for Granting Relief:

For geometric reflectors, the information not recorded on a consistent basis was the circumferential location (L) of the search unit, relative to the zero datum, for the peak amplitude response. ID root geometry which was recorded as "intermittent 360°" can be confirmed by data plots and/or review of the ASME Section III radiographs. Fifty-nine of these welds will not require volumetric examination during inservice inspection. There is no impact on plant safety as a result of this relief request.

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME & B&PV Code, Section XI

27. Class 1 Support Members for Piping
Code Item No. B4.9, Category B-K-1

Code Requirement:

Those pipe integrally-welded attachment welds included in Code Category B-K-1 of Table IWB-2500 shall be volumetrically examined per Item No. B4.9 of Table IWB-2600. The examinations shall include 25% of the supports with attachment welds and shall be performed completely, once, as a preservice examination requirement. The examination volume shall include the attachment weld to the pressure retaining boundary plus the base metal beneath the weld and along the attachment for a distance of 2 support thicknesses.

Relief Request:

Relief is requested from our Preservice Inspection Program Plan requirement to examine 100% of each attachment weld. There is one (1) support included in this relief request. The percent complete of the UT examination and the particular interference are identified in the Component Summary Table.

Justification for Granting Relief:

The structural integrity of the support attachments, welds, and piping pressure boundary has been verified by construction code testing requirements. The attachment welds and base metal were surface examined in accordance with the 1974 Edition of ASME Section III, including the Addenda through the Winter, 1974.

All of the 9 supports (100%) falling under item B4.9 of Code Category B-K-1 are included in the Program Plan. Since the Code requirements has been met, relief is requested only from the PSI Program Plan schedule.

The minimal safety impact of incomplete Section XI preservice examinations described above is explained in the Safety Impact Summary which postulates that a defect has propagated through-wall undetected. Sufficient system redundancy, leak detection capability, and alternative systems have been included in the plant design to assure plant safety.

Limerick Generating Station, Unit 1
Preservice Inspection Relief Request
ASME B & PV Code, Section XI

28. Class 2 Pressure Retaining Bolting Exceeding 1-inch in Diameter
Code Item No. Cl.4, Category C-D

Code Requirement:

Those pressure vessel bolting components included in Code Category C-D of Table IWC-2520 shall be visually and either surface or volumetrically examined per Item No. Cl.4 of Table IWC-2600. Bolting may be examined either in place under tension, when the connection is disassembled, or when the bolting is removed. Visual examinations shall cover 100% of the bolts, studs, nuts, bushings, and threads in base material and flange ligaments between threaded stud holes. Surface and volumetric examinations shall cover 10% of the bolting components, threads in the base material and flange ligaments between threaded stud holes for each bolted joint, but not less than two bolts or studs per joint and shall cover 100% of the bolting per inspection interval. The examinations shall include bolts, studs, nuts, bushings, washers and threads in the base material and flange ligaments between threaded stud holes. Bushings, threads and ligaments in the base material and flanges are required to be examined only when the connection is disassembled.

Relief Request:

Relief is requested from performing the required examinations of 128, nominal diameter 1 1/8 inch bolting sets for the A&R RHR Heat Exchangers.

Justification:

The integrity of the RHR heat exchanger pressure retaining bolting has been verified by construction code testing requirements. Examinations were performed in accordance with the material specification and that edition of ASME Section III in effect at the time of procurement. Visual examinations were performed on the threads, shanks and heads (where applicable). Surface examinations were performed in either the finished bolting or the material stock just prior to threading. A hydrostatic pressure test was performed at 1.5 times the design pressure.

It is intended that the examinations performed by the manufacturer, serve as an acceptable alternative to the Section XI preservice requirements. The minimal safety impact of the incomplete Section XI preservice examinations described above is explained in the Safety Impact Summary. Sufficient system redundancy, leak detection capability, and alternative systems have been included in the plant design to assure plant safety.

28. Continued

All bolting included in this relief request is less than 2-inches in diameter. The first interval and successive inservice inspection programs will be based on the 1980 edition (or later) including Addenda through Winter 1981 (or later) of the ASME Section XI code. Therefore, only those pressure retaining class 2 bolting exceeding 2-inches in diameter will be examined during each inservice inspection interval.

During the first interval, the RHR Heat Exchanger bolting will receive a visual examination (VT-1), either in place or disassembled, at a time of maintenance or concurrent with the scheduled volumetric examination of the shell welds.

Attachment 2

Component Summary Table, Rev. 2

Attachment 2

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, REV. 2

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The Component Summary Table is presented in two parts. Part 1 is an itemized listing of the pressure retaining components, welded attachments and supports for which complete preservice examinations in accordance with the 1974 Edition of ASME Section XI, Tables IWB-2600 and IWC-2600 were not concluded due to various physical impediments. Part 2 is a listing of Class 1 valves for which the manufacturer's internal surface visual examinations under ASME Section III are considered adequate to meet the requirements of Section XI Examination Category B-M-2, Item B6.7. Both parts of the table include components previously identified for relief request.

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The data provided in the Component Summary Table is based on Incomplete Examination Analysis Reports (IEAR's) and Revision 9 of the Preservice Inspection Program Plan as submitted by NES.

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It is recognized that this Component Summary Table, as presented in this Revision 2, is subject to change, contingent upon the conclusion of current examination data analyses and modifications on the plant design and as-built configuration.

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Revision Key

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- Revision to Component Summary Table, Revision 1.

A - Additional Weld/Component for which relief is requested.

Note - Special instruction

D/"X" - Delete from Relief Request "X", Component Summary Table, Rev. 1

Attachment 2

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, REV. 2

1 

The following is an abbreviation index for use with the Component Summary Table:

General

N/A - Not Applicable.

SIC - Safety Impact Category - The Category number identified relates to a description in the Safety Impact Summary which follows the Component Summary Table.

Systems

Residual Heat Removal	-	RH
High Pressure Coolant Injection	-	HP
Main Steam	-	MS
Core Spray	-	CS
Feedwater	-	FW
Reactor Core Isolation Cooling	-	RC
Reactor Recirculation	-	RR
Reactor Water Clean-up	-	RW
Control Rod Drive	-	RD

Component Suffixes

A	-	New or additional weld
LD	-	Longitudinal Seam (Downstream)
LU	-	Longitudinal Seam (Upstream)
Min	-	Inner Radius of Elbow Seam
Max	-	Outer Radius of Elbow Seam
R	-	Repair Weld

Examination Code

VT	-	Visual Examination
PT	-	Liquid Penetrant Examination
MT	-	Magnetic Particle Examination
RT	-	Radiographic Examination
UT	-	Ultrasonic Examination
Long.	-	Longitudinal as defined in ASME Section XI, Article III-4430, "Longitudinal Reflectors".
Circ.	-	Circumferential as defined in ASME Section XI, Article III-4420, "Circumferential Reflectors".

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LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RHA-001A 01- 01	12" Pipe to Pipe B-J/B4.5	2036	Joint Configuration Fitting to Pipe Weld	60% Long. 100% Circ.	UT	4	6	
RHA-013 01- 01	12" Flued Head (X-45A) to Valve (HV-1F017A) B-J/B4.5	2212	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	2	6	
RHA-092 01- 01	12" Flued Head (X-13A) to Valve (HV-1F015A) B-J/B4.5	2228	Joint Configuration Fitting to Fitting Weld	30% Long. 50% Circ.	UT	2	6	2
RHB-002 01- 04	12" Elbow to Valve (1F065B) B-J/B4.5	2289	ASME Code Plate	100% Long. 98% Circ.	UT	4	6	A
RHB-013 01- 04	12" Flued Head (X-45B) to Valve (HV-1F017B) B-J/B4.5	2212	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	2	6	
RHB-082 01- 04	12" Flued Head (X-13B) to Valve (HV-1F015B) B-J/B4.5	2111	Joint Configuration Fitting to Fitting Weld	80% Long. 50% Circ.	UT	2	6	
RHC-013 01- 07	12" Flued Head (X-45C) to Valve (HV-1F017C) B-J/B4.5	2212	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	2	6	
RHD-013 01- 09	12" Flued Head (X-45D) to Valve (HV-1F017D) B-J/B4.5	2212	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	2	6	
RH-015 01- 11	20" Flued Head (X-12) to Valve (HV-1F008) B-J/B4.5	2196	Joint Configuration Fitting to Fitting Weld	80% Long. & Circ.	UT	3	6	
RHA-190A 01- 15	6" Pipe to Flange B-J/B4.5	2235	Joint Configuration Fitting to Pipe Weld Columnar Structure of Dendritic Weld	30% Long. & Circ.	UT	2	6	
RHA-218 01- 16	6" Flued Head (X-17) to Valve (HV-1F023) C-F/C2.1	2077	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	7	6	
HP-021 02- 01	10" Flued Head (X-11) to Valve (HV-1F003) B-J/B4.5	2141	Joint Configuration Fitting to Fitting Weld	90% Long. & Circ.	UT	8	6	
MSA-022 03- 01	26" Valve (HV-1F022A) to Flued Head (X-7A) B-J/B4.5	2279	Joint Configuration Fitting to Fitting Weld/ Recording of Geometric Reflector Data NES NCR 799	100% Long. 70% Circ.	UT	2	6, 25	Note 1

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
								2
MSA-023R 03- 01	26" Flued Head (X-7A) to Valve (HV-1F028A) B-J/B4.5	2037	Joint Configuration/ Recording of Geometric Reflector Data NES NCR 799	95% Long. 70% Circ.	UT	2	6, 25	Note 2
MSB-024 03- 01	26" Valve (HV-1F022B) to Flued Head (X-7B) B-J/B4.5	2273	Joint Configuration Fitting to Fitting Weld	100% Long. 60% Circ.	UT	2	6	A
MSB-025 03- 01	26" Flued Head (X-7B) to Valve (HV-1F028B) B-J/B4.5	2050	Joint Configuration Fitting to Fitting Weld	60% Long. 85% Circ.	UT	2	6	
MSC-022 03- 04	26" Valve (HV-1F022C) to Flued Head (X-7C) B-J/B4.5	2281	Joint Configuration Fitting to Fitting Weld/ Recording of Geometric Reflector Data NES NCR 799	100% Long. 70% Circ.	UT	2	6, 25	Note 1
MSC-023 03- 04	26" Flued Head (X-7C) to Valve (HV-1F028C) B-J/B4.5	2275	Joint Configuration Fitting to Fitting Weld	100% Long. 60% Circ.	UT	2	6	A
MSD-022 03- 04	26" Valve (HV-1F022D) to Flued Head (X-7D) B-J/B4.5	2281	Joint Configuration Fitting to Fitting Weld	100% Long. 70% Circ.	UT	2	6	A
MSD-023 03- 04	26" Flued Head (X-7D) to Valve (HV-1F028D) B-J/C4.5	2039	Joint Configuration Fitting to Fitting Weld	75% Long. 90% Circ.	UT	2	6	
CSA-015 04- 01	Flued Head (X-16A) to Valve (HV-1F005) B-J/B4.5	2067	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	2	6	
CSB-010 04- 04	Valve (HV-1F006B) to 12" Pipe B-J/B4.5	2105	Joint Configuration Fitting to Pipe Weld/ Recording of Geometric Reflector Data NES NCR 799	95% Long. 90% Circ.	UT	2	6, 25	
CSB-015 04- 04	Flued Head (X-16B) to Valve (HV-108) B-J/B4.5	2085	Joint Configuration Fitting to Fitting Weld	40% Long. & Circ.	UT	2	6	
FWA-007 05- 01	12" x 20" Reducer to 20" x 20" x 12" Tee B-J/B4.5	2292	Joint Configuration Fitting to Fitting Weld	100% Long. 70% Circ.	UT	4	6	A
FWA-018 05- 01	20" x 24" Reducer to 24" x 24" x 12" Tee B-J/B4.5	2292	Joint Configuration Fitting to Fitting Weld	100% Long. 70% Circ.	UT	4	6	A

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
FWA-028 05- 01	24" x 24" x 12" Tee to 24" Elbow B-J/B4.5	2241	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	4	6	
FWA-031 05- 01	Valve (HV-1F011A) to 24" Elbow B-J/B4.5	2285	Joint Configuration Fitting to Fitting Weld	100% Long. 60% Circ.	UT	9	6	A
FWA-032 05- 01	24" Elbow to Valve (1F010A) B-J/B4.5	2052	Joint Configuration Fitting to Fitting Weld	75% Long. & Circ.	UT	9	6	
FWA-033 05- 01	24" Valve (1F010A) to Flued Head (X-9A) B-J/B4.5	2277	Joint Configuration Fitting to Fitting Weld/ Recording of Geometric Reflector Data NES NCR 799	100% Long. 60% Circ.	UT	2	6,25	Note 1
FWA-034 05- 01	24" Flued Head (X-9A) to Valve (HV-1F074A) B-J/B4.5	2055	Joint Configuration Fitting to Fitting Weld	40% Long. & Circ.	UT	2	6	
FWB-007 05- 03	12" x 20" Reducer to 20" x 20" x 12" Tee B-J/B4.5	2193	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	4	6	
FWB-016 05- 03	20" x 24" Reducer to 24" x 24" x 12" Tee B-J/B4.5	2274	Joint Configuration Fitting to Fitting Weld	100% Long. 60% Circ.	UT	4	6	A
FWB-025 05- 03	24" x 24" x 12" Tee to 24" Elbow B-J/B4.5	2078	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	4	6	
FWB-028 05- 03	24" Valve (HV-1F011B) to 24" Elbow	2236	Joint Configuration Fitting to Fitting Weld	90% Long. & Circ.	UT	9	6	
FWB-029 05- 03	24" Elbow to Valve (1F010B) B-J/B4.5	2051	Joint Configuration Fitting to Fitting Weld	75% Long. & Circ.	UT	4,9	6	
FWB-030 05- 03	Valve (1F010B) to 24" Flued Head (X-9B) B-J/B4.5	2205	Joint Configuration Fitting to Fitting Weld	75% Long. 90% Circ.	UT	2	6	
FWB-031 05- 03	24" Flued Head (X-9B) to Valve (1F074B) B-J/B4.5	2043	Joint Configuration Fitting to Fitting Weld	90% Long. 65% Circ.	UT	2	6	
RC-131 06- 01	Flued Head (X-10) to Valve (HV-1F008) B-J/B4.5	2259	Joint Configuration Fitting to Fitting Weld	100% Long. 50% Circ.	UT	8	6	

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LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
RRR-006LD-Max. 07- 01	Elbow Seam Max. Radius B-J/B4.5	2013	Sock-O-Let Blocking Scan Path	100% Long. 95% Circ.	UT	4	6
RRR-006LD-Min. 07- 01	Elbow Seam Min. Radius B-J/B4.5	2014	Sock-O-Let Blocking Scan Path	100% Long. 95% Circ.	UT	4	6
RRR-007LU-Max. 07- 01	Elbow Seam Max. Radius B-J/B4.5	2013	Sock-O-Let Blocking Scan Path	100% Long. 95% Circ.	UT	4	6
RRR-007LU-Min. 07- 01	Elbow Seam Min. Radius B-J/B4.5	2014	Sock-O-Let Blocking Scan Path	100% Long. 95% Circ.	UT	4	6
RRR-008 07- 01	Valve (HV-1F023A) to 28" Pipe B-J/B4.5	2239	Sock-O-Let Blocking Scan Path	100% Long. 97% Circ.	UT	4,10	6
RRR-022 07- 01	28" Pipe to 28" x 28" x 12" Tee B-J/B4.5	2197	Joint Configuration Fitting to Pipe Weld	80% Long. & Circ.	UT	4	6
RRR-023 07- 01	28" x 28" x 12" Tee to 28" x 22" Cross B-J/B4.5	2080	Joint Configuration Fitting to Fitting Weld	40% Long. & Circ.	UT	4	6
RRR-035 07- 01	28" x 22" Cross to 28" x 12" Reducer B-J/B4.5	2030	Joint Configuration Fitting to Fitting Weld	70% Long. 40% Circ.	UT	4	6
RRB-005LD-Max. 07- 02	Elbow Seam Max. Radius B-J/B4.5	2240	Sock-O-Let Blocking Scan Path	97% Long. & Circ.	UT	4	6
RRB-005LD-Min. 07- 02	Elbow Seam Min. Radius B-J/B4.5	2029	Sock-O-Let Blocking Scan Path	85% Long. & Circ.	UT	4	6
RRB-006LU-Max. 07- 02	Elbow Seam Max. Radius B-J/B4.5	2033	Sock-O-Let Blocking Scan Path	85% Long. & Circ.	UT	4	6
RRB-006LU-Min. 07- 02	Elbow Seam Min. Radius B-J/B4.5	2033	Sock-O-Let Blocking Scan Path	85% Long. & Circ.	UT	4	6
RRB-021 07- 02	28" Pipe to 28" x 28" x 12" Tee B-J/B4.5	2194	Joint Configuration Fitting to Pipe Weld	90% Long. 100% Circ.	UT	4	6
RRB-022 07- 02	28" x 28" x 12" Tee to 28" x 22" Cross B-J/B4.5	2031	Joint Configuration Fitting to Fitting Weld	40% Long. & Circ.	UT	4	6
RRB-033 07- 02	28" x 22" Cross to 28" x 22" Reducer B-J/B4.5	2079	Joint Configuration Fitting to Fitting Weld	40% Long. & Circ.	UT	4	6

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2'

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
								2
RRR-049 07- 03	2" Nozzle to Fitting B-J/B4.5	2290	Fitting Size & Joint Configuration	0% Long. & Circ.	UT	10	6	A
RRR-050 07- 03	Reducer to 2" Elbow B-J/B4.5	2082	Joint Configuration Fitting to Fitting Weld Proximity of Weld to Min. Elbow Radius	70% Long. & Circ.	UT	10	6	
RRB-047 07- 04	2" Nozzle to Fitting B-J/B4.5	2291	Fitting Size & Joint Configuration	0% Long. & Circ.	UT	10	6	A
RRB-048 07- 04	Reducer to 2" Elbow B-J/B4.5	2083	Joint Configuration Fitting to Fitting Weld Proximity of Weld to Min. Elbow Radius	85% Long. & Circ.	UT	10	6	
RW-044 08- 01	4" Pipe to Valve (1016) B-J/B4.5	2265	Joint Configuration Fitting to Pipe Weld/ Recording of Geometric Reflector Data NES NCR 799	80% Long. 100% Circ.	UT	8	6, 25	Note 3
RW-019 08- 02	6" Flued Head (X-14) to Valve (HV-1F004) B-J/B4.5	2099	Joint Configuration Fitting to Fitting Weld	70% Long. & Circ.	UT	2	6	
RW-087 08- 03	2-1/2" Pipe to 2-1/2" Tee B-J/B4.5	2015	Penetration (X-38) Support Blocking Scan Path	100% Long. 66% Circ.	UT	4	6	
RW-091 08- 03	2" Pipe to Elbow B-J/B4.5	2046	Proximity to Min. Radius of Elbow and to Reducer on Either Side of Weld	60% Long. & Circ.	UT	4	6	
RW-092 08- 03	2" Elbow to Pipe B-J/B4.5	2045	Proximity to Min. Radius of Elbow and to Valve (1F029) on Either Side of Weld	50% Long. & Circ.	UT	4	6	
RW-099 08- 04	4" Tee to Cap B-J/B4.5	2021	Sock-O-Let Blocking Scan Path	100% Long. 70% Circ.	UT	4	6	
RW-110 08- 04	6" Valve (HV-1F100) to 4" x 6" Reducer B-J/B4.5	2025	Joint Configuration Fitting to Fitting Weld	100% Long. 40% Circ.	UT	4	6	
RW-113 08- 04	2" Weld-O-Let to 2" Pipe B-J/B4.5	2032	Joint Configuration Fitting to Pipe Weld. Overprep in Weld Toe	80% Long. 100% Circ.	UT	4	6	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RW-123 08- 04	4" Pipe to Flow Element (FE-1N038) B-J/B4.5	2076	Joint Configuration Fitting to Pipe Weld	90% Long. & Circ.	UT	4	6	
RW-133 08- 04	4" Pipe to Elbow B-J/B4.5	2047	Joint Configuration Fitting to Pipe Weld	75% Long. & Circ.	UT	4	6	2
VRR-1RP-H001 07-101	Pump Support, Lug Weld B-K-1/B5.4	2306	Forged Lug to Cast Base Metal	0% Long. & Circ.	UT	10	8	A
VRR-1RP-H002 07-101	Pump Support, Lug Weld B-K-1/B5.4	2306	Forged Lug to Cast Base Metal	0% Long. & Circ.	UT	10	8	
VRR-1RP-H003 07-101	Pump Support, Lug Weld B-K-1/B5.4	2306	Forged Lug to Cast Base Metal	0% Long. & Circ.	UT	10	8	
VRR-1RS-HA6 07-101	Pump Support, Lug Weld B-K-1/B5.4	2306	Forged Lug to Cast Base Metal	0% Long. & Circ.	UT	10	8	A
VRR-1RP-H004 07-102	Pump Support, Lug Weld B-K-1/B5.4	2307	Forged Lug to Cast Base Metal	0% Long. & Circ.	UT	10	8	A
VRR-1RP-H005 07-102	Pump Support, Lug Weld B-K-1/B5.4	2307	Forged Lug to Cast Base Metal	0% Long. & Circ.	UT	10	8	
VRR-1RP-H006 07-102	Pump Support, Lug Weld B-K-1/B5.4	2307	Forged Lug to Cast Base Metal	0% Long. & Circ.	UT	10	8	
VRR-1RS-HB6 07-102	Pump Support, Lug Weld B-K-1/B5.4	2307	Forged Lug to Cast Base Metal	0% Long. & Circ.	UT	10	8	
RRR-P-C001A 07- 01	Pump A Internal Casing B-L-2/B5.7	2305	Pump Manufacturer's Visual Inspection Considered Adequate	0% Visual	VT	10	9	
RRR-P-C001B 07- 02	Pump B Internal Casing B-L-2/B5.7	2305	Pump Manufacturer's Visual Inspection Considered Adequate	0% Visual	VT	10	9	
RHR-HXA-N3 01- 24	Heat Exchanger (A) Nozzle to Head Weld C-B/C1.2	2224	Sock-O-Let Welded in Scan Path	98% Long. & Circ.	UT	1	11	
RHR-HXA-N4 01- 24	Heat Exchanger (A) Nozzle to Shell 1 Weld C-B/C1.2	2042	Joint Configuration	80% Long. & Circ.	UT	1	11	
RHR-HXB-N3 01- 24	Heat Exchanger (B) Nozzle to Head Weld C-B/C1.2	2224	Sock-O-Let Welded in Scan Path	98% Long. & Circ.	UT	1	11	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
RHR-HXB-N4 01- 24	Heat Exchanger (B) Nozzle to Shell 1 Weld C-B/C1.2	2057	Joint Configuration	90% Long. & Circ.	UT	1	11
RHR-HXA-1-A 01- 25	Top Mounting Support A Heat Exchanger (A) C-C/C1.3	2255	Inside Fillet Weld Not Accessible to Exam	100% Outside 0% Inside Fillet	MT	1	12
RHR-HXA-1-B 01- 25	Top Mounting Support B Heat Exchanger (A) C-C/C1.3	2185	Inside Fillet Weld Not Accessible to Exam	100% Outside 0% Inside Fillet	MT	1	12
RHR-HXA-1-C 01- 25	Top Mounting Support C Heat Exchanger (A) C-C/C1.3	2188	Inside Fillet Weld Not Accessible to Exam	100% Outside 3% Inside Fillet	MT	1	12
RHR-HXA-1-D 01- 25	Top Mounting Support D Heat Exchanger (A) C-C/C1.3	2189	Inside Fillet Welds Not Accessible to Exam	100% Outside 0% Inside Fillet	MT	1	12
RHR-HXA-2-A 01- 25	Bottom Mounting Support A Heat Exchanger (A) C-C/C1.3	2204	I-Beam Obstructing Bottom Outside Fillet Weld	75% Outside 100% Inside Fillet	MT	1	12
RHR-HXA-2-B 01- 25	Bottom Mounting Support B Heat Exchanger (A) C-C/C1.3	2179	I-Beam Obstructing Bottom Outside Fillet Weld	75% Outside 100% Inside Fillet	MT	1	12
RHR-HXA-2-C 01- 25	Bottom Mounting Support C Heat Exchanger (A) C-C/C1.3	2195	I-Beam Obstructing Bottom Outside Fillet Weld	75% Outside 100% Inside Fillet	MT	1	12
RHR-HXA-2-D 01- 25	Bottom Mounting Support D Heat Exchanger (A) C-C/C1.3	2183	I-Beam Obstructing Bottom Outside Fillet Weld	75% Outside 100% Inside Fillet	MT	1	12
RHR-HXB-1-A 01- 25	Top Mounting Support A Heat Exchanger (B) C-C/C1.3	2178	Inside Fillet Weld Not Accessible to Exam	100% Outside 0% Inside Fillet	MT	1	12
RHR-HXB-1-B 01- 25	Top Mounting Support B Heat Exchanger (B) C-C/C1.3	2177	Inside Fillet Weld Not Accessible to Exam Lifting Lug on Outside	90% Outside 0% Inside Fillet	MT	1	12
RHR-HXB-1-C 01- 25	Top Mounting Support C Heat Exchanger (B) C-C/C1.3	2176	Inside Fillet Weld Not Accessible to Exam	100% Outside 0% Inside Fillet	MT	1	12

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RHR-HXB-1-D 01- 25	Top Mounting Support D Heat Exchanger (B) C-C/C1.3	2186	Inside Fillet Weld Not Accessible to Exam	100% Outside 0% Inside Fillet	MT	1	12	
RHR-HXB-2-A 01- 25	Bottom Mounting Support A Heat Exchanger (B) C-C/C1.3	2198	I-Beam Obstructing Bottom Outside Fillet Weld	75% Outside 100% Inside Fillet	MT	1	12	2
RHR-HXB-2-B 01- 25	Bottom Mounting Support B Heat Exchanger (B) C-C/C1.3	2293	I-Beam Obstructing Bottom Outside Fillet Weld Balance Insulated	0% Outside 100% Inside Fillet	MT	1	12	A
RHR-HXB-2-C 01- 25	Bottom Mounting Support C Heat Exchanger (B) C-C/C1.3	2203	I-Beam Obstructing Bottom Outside Fillet Weld	75% Outside 100% Inside Fillet	MT	1	12	
RHA-HXB-2-D 01- 25	Bottom Mounting Support D Heat Exchanger (B) C-C/C1.3	2199	I-Beam Obstructing Bottom Outside Fillet Weld	75% Outside 100% Inside Fillet	MT	1	12	
RHA-140AR 01- 02	16" Flued Head (X-39A) to Valve (HV-1F021A) C-F/C2.1	2088	Joint Configuration Fitting to Fitting Weld	60% Long. 100% Circ.	UT	1	13	
RHA-148 01- 02	16" Pipe to Elbow C-F/C2.1	2294	Joint Configuration Fitting to Pipe Weld	90% Long. 100% Circ.	UT	1	13	A
RHA-152A 01- 02	6" Flued Head (X-205A) to Valve (HV-1F027A) C-F/C2.1	2087	Joint Configuration Fitting to Fitting Weld	80% Long. 8 Circ.	UT	1	13	
RHA-034R 01- 03	18" Pipe to Flange (FE-1N014A) C-F/C2.1	2257	Joint configuration Fitting to Pipe Weld	75% Long. 100% Circ.	UT	1	13	
RHA-060R 01- 03	30" Pipe to Flange C-F/C2.1	2260	Joint Configuration Fitting to Pipe Weld	75% Long. 100% Circ.	UT	11	13	
RHA-085A 01- 03	30" x 24" Reducer to 24" Pipe C-F/C2.1	2242	Joint Configuration Fitting to Pipe Weld	80% Long. 100% Circ.	UT	11	13	Note 4
RHA-074A 01- 03	24" Valve (HV-1F004A) to Penetration (X-203A) C-F/C2.1	2284	Joint Configuration Fitting to Fitting Weld	100% Long. 60% Circ.	UT	5	13	A

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RHA-094A 01- 03	12" Pipe to 18" x 12" Reducer C-F/C2.1	2208	Proximity of Adjacent Drain Line to Scan Path On Pipe side and Columnar Structure of Dendritic Weld	100% Long. 50% Circ.	UT	1	13	<div style="border: 1px solid black; padding: 5px; display: inline-block;">2</div>
RHB-132A 01- 05	16" Flued Head (X-39B) to Valve (HV-1F021B) C-F/C2.1	2101	Joint Configuration Fitting to Fitting Weld	80% Long. & Circ.	UT	1	13	
RHB-149AR 01- 05	6" Flued Head (X-205B) to Valve (HV-1F027B) C-F/C2.1	2103	Joint Configuration Fitting to Fitting Weld	80% Long. & Circ.	UT	1	13	
RHB-053R 01- 06	30" Pipe to Flange C-F/C2.1	2207	Joint Configuration Pipe to Fitting Weld	40% Long. & Circ.	UT	11	13	
RHB-067A 01- 06	Valve (HV-1F004B) to 24" Flued Head (X-203B) C-F/C2.1	2048	Joint Configuration Fitting to Fitting Weld	75% Long. & Circ.	UT	5	13	
RHC-017R 01- 07	18" x 12" Reducer to 12" Pipe C-F/C2.1	2060	Proximity of Weld to Penetration Limiting Scan Path/Recording of Geometric Reflector Data NES NCR 799	45% Long. & Circ.	UT	1	13, 26	
RHC-053R 01- 08	30" Pipe to Flange C-F/C2.1	2094	Weld Configuration Loss of X-Ducer Contact In Weld Toe	90% Long. & Circ.	UT	11	13	
RHC-065A 01- 08	Valve (HV-1F004C) to 24" Flued Head (X-203C) C-F/C2.1	2049	Joint Configuration Fitting to Fitting Weld I-Beam Obstruction	75% Long. & Circ.	UT	5	13	
RHD-014R 01- 09	Valve (HV-1F017D) to 12" Pipe C-F/C2.1	2086	Joint Configuration Fitting to Pipe Weld	90% Long. & Circ.	UT	1	13	
RHD-015R 01- 09	12" Pipe to Elbow C-F/C2.1	2248	6" Sweep-o-Let in Pipe 1/2" from Weld Limiting Scan Path	100% Long. 98% Circ.	UT	1	13	
RHD-059 01- 10	Flange to 30" Pipe C-F/C2.1	2243	Two Nozzles Partially Blocking Scan Path	100% Long. 95% Circ.	UT	11	13	
RHD-072A 01- 10	Valve (HV-1F004D) to 24" Flued Head (X-203D) C-F/C2.1	2217	Joint Configuration Fitting to Fitting Weld	75% Long. & Circ.	UT	5	13	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RH-028 01- 13	24" Tee to 24" x 24" x 20" Tee C-F/C2.1	2089	Joint Configuration Fitting to Fitting Weld	98% Long. & Circ.	UT	3	13	
RH-047R 01- 13	Valve 1F067B to 20" Elbow C-F/C2.1	2287	Joint Configuration Fitting to Fitting Weld	80% Long. 100% Circ.	UT	11	13	
RH-109 01- 14	Valve (PV-C-1F051A) to 14" x 6" Reducer C-F/C2.1	2247	Joint Configuration Fitting to Fitting Weld	80% Long. 70% Circ.	UT	1	13	
RH-146 01- 14	10" x 6" Reducer to Valve (PV-C-1F051B) C-F/C2.1	2059	1" Drain Line Weld Partial Obstruction of Scan Path	100% Long. 98% Circ.	UT	1	13	
RH-177 01- 20	8" x 6" Reducer to Valve (HV-130) C-F/C2.1	2256	ASME Code Plate	70% Long. & Circ.	UT	6	13	
RH-190A 01- 20	6" Pipe to Pipe C-F/C2.1	2230	"Permanent" Hanger Complete Obstruction	0% Long. & Circ.	UT	16	13	
RH-205A 01- 20	6" Flange to 10" x 6" Sweepolet C-F/C2.1	2262	Joint Configuration Fitting to Fitting Weld	100% Long. 80% Circ.	UT	17	13	
RH-221A 01- 20	6" Flange to 10" x 6" Sweepolet C-F/C2.1	2261	Joint Configuration Fitting to Fitting Weld	100% Long. 95% Circ.	UT	17	13	
RHA-244 01- 22	Valve (HV-125A) to Flued Head (X-204A) C-F/C2.1	2066	Joint Configuration Fitting to Pipe Weld	60% Long. & Circ.	UT	7	13	
RHB-185 01- 23	Valve (HV-125B) to 18" Pipe C-F/C2.1	2064	Joint Configuration Fitting to Pipe Weld	60% Long. & Circ.	UT	1	13	
RHA-258 01- 26	22" Elbow to Valve (HV-182A) C-F/C2.1	2062	Joint Configuration Fitting to Pipe Weld	75% Long. & Circ.	UT	1	13	
RHA-259 01- 26	Valve (HV-182A) to 18" x 22" Reducer C-F/C2.1	2250	Joint Configuration Fitting to Fitting Weld	80% Long. & Circ.	UT	1	13	
RHB-193R 01- 26	18" x 22" Reducer to Valve (HV-182B) C-F/C2.1	2263	Joint Configuration Fitting to Fitting Weld	90% Long. 100% Circ.	UT	1	13	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2'

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RHB-194 01- 26	Valve (HV-182B) to 18" x 22" Reducer C-F/C2.1	2091	Sock-O-Let in Weld Scan Area	100% Long. 95% Circ.	UT	1	13	
HP-022 02- 01	Valve (HV-1F003) to 10" x 12" Reducer C-F/C2.1	2246	Proximity of Adjacent Sock-O-Let to Weld	100% Long. 90% Circ.	UT	8	13	2
HP-024AR2 02- 01	12" Pipe to Pipe C-F/C2.1	2264	Joint Configuration Weld Contour	90% Long. 100% Circ.	UT	8	13	
HP-085 02- 03	12" Pipe to Elbow C-F/C2.1	2157	Proximity of Adjacent Welded Drain Line in Pipe to Scan Path	80% Long. & Circ.	UT	8	13	
HP-087 02- 03	Valve (HV-1F072) to Flued Head (X-210) C-F/C2.1	2206	Joint Configuration Fitting to Fitting Weld	70% Long. & Circ.	UT	7	13	
HP-102 02- 04	14" Pipe to Elbow C-F/C2.1	2106	Penetration blocking 50% of Scan Path	50% Long. 75% Circ.	UT	8	13	
HP-113 02- 04	14" x 14" x 10" Tee to Flange (FD-1D010A) C-F/C2.1	2098	Joint Configuration Fitting to Fitting Weld	100% Long. 40% Circ.	UT	8	13	
HP-122 02- 05	Elbow to 14" Pipe C-F/C2.1	2002	Proximity of Weld to Floor Penetration	50% Long. & Circ.	UT	8	13	
HP-137R 02- 05	14" x 10" Reducer to Pump (10P204) Discharge C-F/C2.1	2053	Joint Configuration Fitting to Fitting Weld	80% Long. 100% Circ.	UT	8	13	
HP-142 02- 06	12" Elbow to Flange C-F/C2.1	2276	Joint Configuration Fitting to Fitting Weld	100% Long. 60% Circ.	UT	11	13	A
MS-034 03- 06	18" Elbow to Turbine By-Pass Valves C-F/C2.1	2001	Proximity of Welded Hanger to Weld Scan Area	100% Long. 65% Circ.	UT	15	13	
CSA-100AR 04- 02	10" Valve (HV-1F015A) to Penetration (X-207A) C-F/C2.1	2283	Joint Configuration Fitting to Fitting Weld	70% Long. & Circ.	UT	7	13	A
CSA-043 04- 03	12" Elbow to Valve (1F003A) C-F/C2.1	2238	Joint Configuration Fitting to Fitting Weld Weld-O-Let in Scan Path	90% Long. & Circ.	UT	14	13	
CSA-065A 04- 03	16" Valve (HV-1F001A) to Penetration (X-206A) C-F/C2.1	2282	Joint Configuration Fitting to Fitting Weld	100% Long. 70% Circ.	UT	5	13	A

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2'

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
CSA-069 04- 03	12" Elbow to Valve (1F003C) C-F/C2.1	2238	Joint Configuration Fitting to Fitting Weld Weld-O-Let in Scan Path	95% Long. & Circ.	UT	14	13	
CSA-093A 04- 03	16" Valve (HV-1F001C) to Penetration (X-206C) C-F/C2.1	2282	Joint Configuration Fitting to Fitting Weld	100% Long. 70% Circ.	UT	5	13	A
CSB-026 04- 05	14" Pipe to Elbow C-F/C2.1	2295	Joint Configuration Fitting to Pipe Weld	90% Long. 100% Circ.	UT	14	13	A
CSB-028 04- 05	14" Pipe to Elbow C-F/C2.1	2296	Joint Configuration Fitting to Pipe Weld	90% Long. 100% Circ.	UT	14	13	A
CSB-106A 04- 05	10" Valve (HV-1F015B) to Penetration (X-207B) C-F/C2.1	2278	Joint Configuration Fitting to Fitting Weld	100% Long. 70% Circ.	UT	7	13	A
CSB-049 04- 06	12" Elbow to Valve (1F003B) C-F/C2.1	2238	Joint Configuration Fitting to Fitting Weld Weld-O-Let in Scan Path	90% Long. & Circ.	UT	14	13	
CSB-075 04- 06	12" Elbow to Valve (1F003D) C-F/C2.1	2238	Joint Configuration Fitting to Fitting Weld Weld-O-Let in Scan Path	95% Long. & Circ.	UT	14	13	
CSB-071A 04- 07	Valve (HV-1F001B) to Flued Head (X-206B) C-F/C2.1	2071	Joint Configuration Fitting to Fitting Weld	70% Long. & Circ.	UT	5	13	
CSB-099AR 04- 07	16" Valve (HV-1F001D) to Penetration (X-206D) C-F/C2.1	2280	Joint Configuration Fitting to Fitting Weld/ Recording of Geometric Reflector Data NES NCR 799	100% Long. 75% Circ.	UT	5	13, 26	Note 5
FWA-037 05- 02	24" x 24" x 16" Tee to Valve (HV-1F032A) C-F/C2.1	2058	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	12	13	
FWA-038 05- 02	24" x 24" x 16" Tee to 16" Elbow C-F/C2.1	2244	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	12	13	
FWB-032 05- 04	Valve (HV-1F074B) to 24" Pipe C-F/C2.1	2040	Joint Configuration Fitting to Pipe Weld	75% Long. 90% Circ.	UT	12	13	
FWB-035 05- 04	24" x 24" x 16" Tee to Valve (HV-1F032B) C-F/C2.1	2022	Joint Configuration Fitting to Fitting Weld	80% Long. & Circ.	UT	12	13	

2

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
FWB-036 05- 04	16" x 24" x 24" Tee to 16" Elbow C-F/C2.1	2245	Joint Configuration Fitting to Fitting Weld	60% Long. & Circ.	UT	12	13	2
RC-016A 06- 02	3" Valve (HV-1F008) to 6" x 3" Reducer N/A	2258	1" Welded Drain Line in Scan Path	99% Long. 90% Circ.	UT	8	13	A
RC-059R 06- 03	6" x 6" x 4" Tee to Valve (HV-1F013) C-F/C2.1	2288	4" Leg of Tee Blocking Scan Path (Former IEAR 2011)	100% Long. 70% Circ.	UT	12	13	
RC-101 06- 04	10" Pipe to Cap C-F/C2.1	2005	Sock-O-Let Blocking Scan Path/Recording of Geometric Reflector Data NES NCR 799	85% Long. & Circ.	UT	8	13,26	
RC-123 06- 04	Valve (HV-1F060) to Flued Head (X-215) C-F/C2.1	2068	Joint Configuration Fitting to Fitting Weld	50% Long. & Circ.	UT	7	13	
RHC-054LUtoRHC-055LD 01- 08	Longitudinal Elbow Seam C-F/C2.2	2019	"Permanent" Welded Support Brace on Weld Seam	80% Long. & Circ.	UT	11	14	
RHC-056LUtoRHC-057LD 01- 08	Longitudinal Elbow Seam C-F/C2.2	2020	"Permanent" Welded Support Brace on Weld Seam	80% Long. & Circ.	UT	11	14	
RHD-061LUtoRHD-062LD 01- 10	Longitudinal Elbow Seam C-F/C2.2	2044	"Permanent" Welded Support Brace on Weld Seam	100% Long. 70% Circ.	UT	11	14	
RHD-063LUtoRHD-064LD 01- 10	Longitudinal Elbow Seam C-F/C2.2	2018	"Permanent" Welded Support Brace on Weld Seam	80% Long. & Circ.	UT	11	14	
RH-016BLD-Max. 01- 12	Longitudinal Elbow Seam C-F/C2.2	2054	Nozzle Welded on Seam Centerline 3.8" from Weld RH-016R	92% Long. & Circ.	UT	3	14	
MSA-025 03- 03	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15	
MSA-025LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15	
MSA-025LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
MSA-026 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSA-026LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-026LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-027 03- 03	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSA-027LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-027LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	R	13	15
MSA-028 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSA-028LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-028LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-029 03- 03	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSA-029LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-029LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-030 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSA-030LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-030LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-031 03- 03	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSA-031LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
MSA-031LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-032 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSA-032LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-032LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-034 03- 03	26" x 26" x 14" Tee to 26" Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSA-034LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-034LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-035 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSA-035LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSA-035LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-027 03- 03	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSB-027LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-027LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-028 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSB-028LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-028LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-029 03- 03	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
MSB-029LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-029LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-030 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSB-030LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-030LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-031 03- 03	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSB-031LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-031LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-032 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSB-032LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-032LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-034 03- 03	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSB-034LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-034LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-035 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSB-035LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-035LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
MSB-038 03- 03	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSB-038LD-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-038LD-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-039 03- 03	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSB-039LU-Max. 03- 03	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSB-039LU-Min. 03- 03	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-025 03- 05	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSC-025LD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-025LD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-026 03- 05	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSC-026LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-026LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-027 03- 05	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSC-027LD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-027LD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-028 03- 05	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSC-028LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
MSC-028LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-029R 03- 05	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSC-029RLD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-029RLD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-030 03- 05	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSC-030LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-030LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-031 03- 05	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSC-031LD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-031LD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-032 03- 05	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSC-032LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-032LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-034 03- 05	24" x 26" x 14" Tee to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSC-034LD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-034LD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-035 03- 05	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15

2

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2'

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
MSC-035LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSC-035LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-025 03- 05	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-025LD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-025LD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-026 03- 05	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-026LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-026LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-027 03- 05	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-027LD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-027LD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-028 03- 05	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-028LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-028LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-029 03- 05	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-029LD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-029LD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2'

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
MSD-030 03- 05	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-030LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-030LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-031 03- 05	26" Pipe to Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-031LD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-031LD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-032 03- 05	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-032LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-032LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-034 03- 05	26" x 26" x 14" Tee to 26" Elbow C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-034LD-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-034LD-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-035 03- 05	26" Elbow to Pipe C-F/C2.1	2237	Base Metal	100%	RT	13	15
MSD-035LU-Max. 03- 05	Elbow Seam Max. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
MSD-035LU-Min. 03- 05	Elbow Seam Min. Radius C-F/C2.2	2237	Base Metal	100%	RT	13	15
GBB-118-H008 01-102	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16
GBB-118-H073 01-102	Pipe Support, 16 Lugs C-E-1/C2.5	2135	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
GBB-118-H901 01-102	Pipe Support, Anchor Sleeve C-E-1/C2.5	2312	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16	<div style="text-align: center;">2</div>
GBB-101-H018 01-103	Pipe Support, 4 Lugs C-E-1/C2.5	2142	Adjoining Clamp	90% Surface	MT	1	16	
GBB-102-H034 01-103	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16	
GBB-117-H006 01-103	Pipe Support, 8 Lugs C-E-1/C2.5	2147	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16	
GBB-117-H020 01-103	Pipe Support, 8 Lugs C-E-1/C2.5	2116	Adjoining Clamp	90% Surface	MT	1	16	
GBB-118-H001 01-103	Pipe Support, 8 Lugs C-E-1/C2.5	2118	Adjoining Clamp	90% Surface	MT	1	16	
GBB-118-H017 01-103	Pipe Support, 4 Lugs C-E-1/C2.5	2127	Adjoining Clamp	90% Surface	MT	1	16	
GBB-118-H080 01-103	Pipe Support, 10 Lugs C-E-1/C2.5	2139	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16	
GBB-118-H902 01-103	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	82% Surface	MT	1	16	
GBB-120-H008 01-103	Pipe Support, 12 Lugs C-E-1/C2.5	2137	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16	
HBB-117-H001 01-103	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	<div style="text-align: center;">A</div>
HBB-117-H018 01-103	Pipe Support, 8 Lugs C-E-1/C2.5	2182	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	11	16	
HBB-117-X-203A 01-103	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	5	16	

Note
6

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
GBB-107-H019 01-105	Pipe Support, 4 Lugs C-E-1/C2.5	2184	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16
GBB-118-H903 01-105	Pipe Support, Anchor Sleeve C-E-1/C2.5	2144	Adjacent Hanger/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16
GBB-118-H904 01-105	Pipe Support, Anchor Sleeve C-E-1/C2.5	2191	Adjacent Hanger and House Steel/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16
GBB-101-H004 01-106	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16
GBB-101-H026 01-106	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16
GBB-117-H003 01-106	Pipe Support, 8 Lugs C-E-1/C2.5	2214	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16
GBB-117-H004 01-106	Pipe Support, 8 Lugs C-E-1/C2.5	2175	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16
GBB-118-H011 01-106	Pipe Support, 4 Lugs C-E-1/C2.5	2172	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16
GBB-118-H016 01-106	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16
GBB-118-H049 01-106	Pipe Support, 8 Lugs C-E-1/C2.5	2167	Adjoining Clamp	90% Surface	MT	1	16
GBB-118-H062 01-106	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16
GBB-118-H905 01-106	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
GBB-120-H007 01-106	Pipe Support, 12 Lugs C-E-1/C2.5	2166	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16	2
HBB-117-H005 01-106	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	
HBB-117-H006 01-106	Pipe Support, Saddle C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	
HBB-117-H019 01-106	Pipe Support, 12 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	
HBB-117-X-2038 01-106	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	5	16	
GBB-102-H035 01-106A	Pipe Support, Sleeve C-E-1/C2.5	2302	N/A, Refer to ASME Section III Inspection Results	100% Surface	MT	1	16	A
GBB-119-H002 01-107	Pipe Support, 4 Lugs C-E-1/C2.5	2109	Adjacent Hanger, Pipe and Wall/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16	
GBB-119-H012 01-107	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16	
GBB-119-H015 01-107	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16	
GBB-119-H023 01-107	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16	
GBB-119-H041 01-107	Pipe Support, 8 Lugs C-E-1/C2.5	2128	Adjoining Clamp	90% Surface	MT	1	16	
GBB-119-H044 01-107	Pipe Support, 8 Lugs C-E-1/C2.5	2180	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16	
GBB-119-H092 01-107	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16	
GBB-119-H095 01-107	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16	
GBB-119-H901 01-107	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
GBB-119-H902 01-107	Pipe Support, Anchor Sleeve C-E-1/C2.5	2154	Hanger Configuration. Long. Weld Inaccessible/ IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16
GBB-119-H011 01-108	Pipe Support, 16 Lugs C-E-1/C2.5	2122	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16
HBB-117-H022 01-108	Pipe Support, 8 Lugs C-E-1/C2.5	2124	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	11	16
HBB-117-X-203C 01-108	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	5	16
HBB-118-H080 01-108	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16
HBB-118-H081 01-108	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16
GBB-119-H018 01-109	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16
GBB-119-H027 01-109	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16
GBB-119-H032 01-109	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16
GBB-119-H060 01-109	Pipe Support, 4 Lugs C-E-1/C2.5	2120	Adjoining Clamp	90% Surface	MT	1	16
GBB-119-H068 01-109	Pipe Support, 8 Lugs C-E-1/C2.5	2126	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16
GBB-119-H903 01-109	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16
GBB-119-H904 01-109	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2'

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
GBB-119-H017 01-110	Pipe Support, 12 Lugs C-E-1/C2.5	2155	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16	2
HBB-117-H021 01-110	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	
HBB-117-X-203D 01-110	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	5	16	
HBB-118-H083 01-110	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	
HBB-118-H084 01-110	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	
HBB-118-H001 01-112	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	3	16	
HBB-118-H003 01-112	Pipe Support, 12 Lugs C-E-1/C2.5	2148	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	3	16	
HBB-119-H002 01-112	Pipe Support, 8 Lugs C-E-1/C2.5	2132	HBB-119-H8 Hanger	95% Surface	MT	3	16	
HBB-119-H901 01-112	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	3	16	
HBB-119-H902 01-112	Pipe Support, Anchor Sleeve C-E-1/C2.5	2117	Attachment Plate on Sleeve/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	3	16	
HBB-118-H013 01-113	Pipe Support, Saddle C-E-1/C2.5	2266	1 Sq. Inch of Saddle Base Metal is Permanently Obstructed by 8 Gussets/ IEAR Supplemented by ASME Section III Insp Results	100% Surface	MT/PT	3	16	
HBB-118-H035 01-113	Pipe Support, 12 Lugs C-E-1/C2.5	2202	Adjoining Clamp	90% Surface	MT	3	16	
HBB-118-H040 01-113	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	3	16	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
HBB-118-H042 01-113	Pipe Support, 8 Lugs C-E-1/C2.5	2164	Adjoining Clamp	90% Surface	MT	3	16	
HBB-118-H069 01-113	Pipe Support, Saddle C-E-1/C2.5	2267	1 Sq. Inch of Saddle Base Metal is Permanently Obstructed by 8 Gussets/ IEAR Supplemented by ASME Section III Insp Results	100% Surface	MT/PT	3	16	
EBB-121-H901 01-114	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	7	16	A
EBB-121-H902 01-114	Pipe Support, Sleeve C-E-1/C2.5	2104	Floor Elevation 217 Blocking Access/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16	
GIB-103-H001 01-114	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16	
ECB-111-H901 01-115	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	PT	1	16	A
ECB-111-H001 01-116	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	PT	18	16	
GBB-111-H004 01-117	Pipe Support, 8 Lugs C-E-1/C2.5	2123	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	1	16	
HBB-140-H010 01-118	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	17	16	
HBB-140-H017 01-118	Pipe Support, Anchor Sleeve C-E-1/C2.5	2303	N/A, Refer to ASME Section III Inspection Results	100% Surface	PT	7	16	A
HBB-140-H001 01-119	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	17	16	
HBB-140-H018 01-119	Pipe Support, Anchor Sleeve C-E-1/C2.5	2304	N/A, Refer to ASME Section III Inspection Results	100% Surface	PT	7	16	A

2

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
HBB-160-H001 01-120	Pipe Support, 8 Lugs C-E-1/C2.5	2136	Adjoining Clamp and Hanger/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	16	16
HBB-160-H002 01-120	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	16	16
HBB-160-H016 01-120	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	16	16
HBB-160-X-225 01-120	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	6	16
GBB-108-H011 01-122	Pipe Support, 8 Lugs C-E-1/C2.5	2174	Adjoining Box Support/ IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16
GBB-108-H004 01-123	Pipe Support, 12 Lugs C-E-1/C2.5	2152	Adjoining Clamp & Hanger/ IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	1	16
GBB-119-H100 01-126	Pipe Support, 12 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	1	16
EBB-108-H022 02-101	Pipe Support, 4 Lugs C-E-1/C2.5	2138	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	8	16
EBB-108-H004 02-102	Pipe Support, 8 Lugs C-E-1/C2.5	2143	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16
EBB-108-H008 02-102	Pipe Support, 6 Lugs C-E-1/C2.5	2318	Adjoining Clamp	90% Surface	MT	8	16
EBB-108-H038 02-102	Pipe Support, 4 Lugs C-E-1/C2.5	2131	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16
EBB-108-H901 02-102	Pipe Support, Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16

2

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
HBB-108-H003A 02-103	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	8	16
HBB-108-H004 02-103	Pipe Support, 12 Lugs C-E-1/C2.5	2223	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16
HBB-108-H005 02-103	Pipe Support, 8 Lugs C-E-1/C2.5	2133	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	8	16
HBB-108-H006 02-103	Pipe Support, 8 Lugs C-E-1/C2.5	2134	Adjoining Clamp	90% Surface	MT	8	16
EBB-129-H011 02-104	Pipe Support, Saddle C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	8	16
EBB-129-H043 02-104	Pipe Support, 8 Lugs C-E-1/C2.5	2173	Adjoining Clamp	90% Surface	MT	8	16
EBB-129-H902 02-104	Pipe Support, Anchor Sleeve C-E-1/C2.5	2108	Hanger, Floor and Wall/ IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16
EBB-129-H004 02-105	Pipe Support, 8 Lugs C-E-1/C2.5	2115	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16
EBB-129-H005 02-105	Pipe Support, Welded Clamp C-E-1/C2.5	2114	Hanger Clamp EBB-129-H4/ IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16
EBB-129-H901 02-105	Pipe Support, Stanchion C-E-1/C2.5	2110	Hanger and Wall/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16
EBB-129-H903 02-107	Pipe Support, Welded Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16
EBB-103-H013 03-103	Pipe Support, Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	15	16

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
EBB-104-H013 03-103	Pipe Support, Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	15	16	2
EBB-101-H013 03-105	Pipe Support, Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	15	16	
EBB-102-H013 03-105	Pipe Support, Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	15	16	
EBB-106-H006 03-106	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	15	16	
EBB-106-H010 03-106	Pipe Support, 8 Lugs C-E-1/C2.5	2301	N/A, Refer to ASME Section III Inspection Results	100% Surface	MT	15	16	A
GBB-113-H007 04-102	Pipe Support, 4 Lugs C-E-1/C2.5	2181	Adjoining Clamp	90% Surface	MT	14	16	
GBB-113-H008 04-102	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	14	16	
GBB-113-H009 04-102	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	14	16	
GBB-113-H001 04-102	Pipe Support, Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	14	16	
GBB-115-X-207A 04-102	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	7	16	
GBB-113-H001 04-103	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	14	16	
GBB-113-H006 04-103	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	14	16	
HBB-120-H030 04-103	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	
HBB-120-H031 04-103	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
HBB-120-X-206A 04-103	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	5	16	2
HBB-120-X-206C 04-103	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	5	16	
EBB-131-H008 04-105	Pipe Support, 8 Lugs C-E-1/C2.5	2209	Adjoining Hanger	95% Surface	MT	8	16	
GBB-112-H037 04-105	Pipe Support, 4 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	14	16	
GBB-112-H050 04-105	Pipe Support, 16 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	14	16	
GBB-112-H901 04-105	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	14	16	
GBB-114-X-207B 04-105	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	5	16	
GBB-112-H001 04-106	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	14	16	
GBB-112-H010 04-106	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	14	16	
HBB-120-H013 04-107	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	
HBB-120-H032 04-107	Pipe Support, Stanchion C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	11	16	
HBB-120-X-206B 04-107	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	5	16	
HBB-120-X-206D 04-107	Penetration Anchor Ring Plate C-E-1/C2.5	2297	Buried in Concrete	0% Surface	MT	5	16	
EBB-109-H004 06-102	Pipe Support, 4 Lugs C-E-1/C2.5	2160	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	8	16	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
EBB-109-H009 06-102	Pipe Support, 8 Lugs C-E-1/C2.5	2163	Adjoining Clamp	90% Surface	MT	8	16	2
EBB-126-H002 06-103	Pipe Support, 4 Lugs C-E-1/C2.5	2158	Adjacent Hanger Clamps	80% Surface	MT	8	16	
EBB-126-H005 06-103	Pipe Support, 4 Lugs C-E-1/C2.5	2170	Adjoining Clamp	90% Surface	MT	8	16	
EBB-135-H002 06-103	Pipe Support, 4 Lugs C-E-1/C2.5	2140	Adjoining Clamp	90% Surface	MT	8	16	
EBB-135-H025 06-103	Pipe Support, 8 Lugs C-E-1/C2.5	2162	Adjoining Clamp	90% Surface	MT	8	16	
EBB-135-H028 06-103	Pipe Support, 4 Lugs C-E-1/C2.5	2161	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16	
EBB-135-H901 06-103	Pipe Support, Anchor Sleeve C-E-1/C2.5	2171	Gusset to Sleeve Welds Blocking Partial Base Metal Examination/IEAR Supplemented by ASME Section III Insp Results	100% Surface	MT/PT	8	16	
EBB-135-H902 06-103	Pipe Support, Anchor Sleeve C-E-1/C2.5	2311	Missed Areas/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT	8	16	
HBB-101-H001 06-104	Pipe Support, 4 Lugs C-E-1/C2.5	2169	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	8	16	
HBB-101-H006 06-104	Pipe Support, 4 Lugs C-E-1/C2.5	2165	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	8	16	
HBB-101-H011 06-104	Pipe Support, 4 Lugs C-E-1/C2.5	2159	Adjoining Clamp/IEAR Supplemented by ASME Section III Inspection Results	100% Surface	MT/PT	8	16	
EBB-142-SH-E04 09-101	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	19	16	A
EBB-142-SH-E13 09-101	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	19	16	A

LIMERICK GENERATING STATION, UNIT 1
 COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
								2
EBB-142-SH-E19 09-101	Pipe Support, 4 Lugs C-E-1/C2.5	2308	N/A, Refer to ASME Section III Inspection Results	100% Surface	PT	19	16	A
EBB-142-SH-W03 09-102	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	19	16	A
EBB-142-SH-W12 09-102	Pipe Support, 8 Lugs C-E-1/C2.5	None	N/A, See Relief Request	100% Surface	MT	19	16	A
EBB-142-SH-W18 09-102	Pipe Support, 4 Lugs C-E-1/C2.5	2309	N/A, Refer to ASME Section III Inspection Results	100% Surface	PT	19	16	A
RHA-P-A 01- 27 & 01- 03	Inlet Flange to Nozzle Weld, Pump A C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHA-P-B 01- 27 & 01- 03	Inlet Nozzle to Casing Weld, Pump A C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHA-P-C 01- 27 & 01- 03	Casing Weld, Pump A C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHA-P-D 01- 27 & 01- 03	Outlet Head to Casing Weld, Pump A C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHA-P-E 01- 27 & 01- 03	Elbow to Outlet Head Weld, Pump A C-F/C3.1	2097	Joint Configuration	90% Long. 100% Circ.	UT	11	17	
RHA-P-F 01- 27 & 01- 03	Flange to Outlet Elbow Weld, Pump A C-F/C3.1	2097	Joint Configuration	90% Long. 100% Circ.	UT	11	17	
RHA-P-G 01- 27 & 01- 03	Stuffing Box to Outlet Elbow Weld, Pump A C-F/C3.1	2097	Joint Configuration	90% Long. 100% Circ.	UT	11	17	
RHB-P-A 01- 27 & 01- 06	Inlet Flange to Nozzle Weld, Pump B C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHB-P-B 01- 27 & 01- 06	Inlet Nozzle to Casing Weld, Pump B C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHB-P-C 01- 27 & 01- 06	Casing Weld, Pump B C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
								2
RHB-P-J 01- 27 & 01- 06	Outlet Head to Casing Weld, Pump B C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHB-P-E 01- 27 & 01- 06	Elbow to Outlet Head Weld, Pump B C-F/C3.1	2097	Joint Configuration	90% Long. 100% Circ.	UT	11	17	
RHB-P-F 01- 27 & 01- 06	Flange to Outlet Elbow Weld, Pump B C-F/C3.1	2097	Joint Configuration	90% Long. 100% Circ.	UT	11	17	
RHB-P-G 01- 27 & 01- 06	Stuffing Box to Outlet Elbow Weld, Pump B C-F/C3.1	2097	Joint Configuration	90% Long. 100% Circ.	UT	11	17	
RHC-P-A 01- 27 & 01- 08	Inlet Flange to Nozzle Weld, Pump C C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHC-P-B 01- 27 & 01- 08	Inlet Nozzle to Casing Weld, Pump C C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHC-P-C 01- 27 & 01- 08	Casing Weld, Pump C C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHC-P-D 01- 27 & 01- 08	Outlet Head to Casing Weld, Pump C C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHC-P-E 01- 27 & 01- 08	Elbow to Outlet Head Weld, Pump C C-F/C3.1	2063	Joint Configuration	50% Long. 100% Circ.	UT	11	17	
RHC-P-F 01- 27 & 01- 08	Flange to Outlet Elbow Weld, Pump C C-F/C3.1	2063	Joint Configuration	50% Long. 100% Circ.	UT	11	17	
RHC-P-G 01- 27 & 01- 08	Stuffing Box to Outlet Elbow Weld, Pump C C-F/C3.1	2063	Joint Configuration/ Recording of Geometric Reflector Data NES NCR 799	50% Long. 100% Circ.	UT	11	17, 26	Note 7
RHD-P-A 01- 27 & 01- 10	Inlet Flange to Nozzle Weld, Pump D C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHD-P-B 01- 27 & 01- 10	Inlet Nozzle to Casing Weld, Pump D C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RHD-P-C 01- 27 & 01- 10	Casing Weld, Pump D C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHD-P-D 01- 27 & 01- 10	Outlet Head to Casing Weld, Pump D C-F/C3.1	2226	Incased in Concrete	0% Long. & Circ.	UT	11	17	A
RHD-P-E 01- 27 & 01- 10	Elbow to Outlet Head Weld, Pump D C-F/C3.1	2070	Joint Configuration	90% Long. 100% Circ.	UT	11	17	
RHD-P-F 01- 27 & 01- 10	Flange to Outlet Elbow Weld, Pump D C-F/C3.1	2070	Joint Configuration	90% Long. 100% Circ.	UT	11	17	
RHD-P-G 01- 27 & 01- 10	Stuffing Box to Outlet Elbow Weld, Pump D C-F/C3.1	2070	Joint Configuration	90% Long. 100% Circ.	UT	11	17	
CSA-P-A 04- 09 & 04- 03	Inlet Flange to Nozzle Weld, Pump A C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSA-P-B 04- 09 & 04- 03	Inlet Nozzle to Casing Weld, Pump A C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSA-P-C 04- 09 & 04- 03	Casing Weld, Pump A C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSA-P-D 04- 09 & 04- 03	Outlet Head to Casing Weld, Pump A C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSA-P-E 04- 09 & 04- 03	Elbow to Outlet Head Weld, Pump A C-F/C3.1	2095	Joint Configuration	90% Long. & Circ.	UT	11	17	
CSA-P-F 04- 09 & 04- 03	Flange to Outlet Elbow Weld, Pump A C-F/C3.1	2095	Joint Configuration	90% Long. & Circ.	UT	11	17	
CSA-P-G 04- 09 & 04- 03	Stuffing Box to Outlet Elbow Weld, Pump A C-F/C3.1	2095	Joint Configuration	75% Long. & Circ.	UT	11	17	
CSC-P-A 04- 09 & 04- 03	Inlet Flange to Nozzle Weld, Pump C C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	

2

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
CSC-P-B 04- 09 & 04- 03	Inlet Nozzle to Casing Weld, Pump C C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	7	2
CSC-P-C 04- 09 & 04- 03	Casing Weld, Pump C C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSC-P-D 04- 09 & 04- 03	Outlet Head to Casing Weld, Pump C C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSC-P-E 04- 09 & 04- 03	Elbow to Outlet Head Weld, Pump C C-F/C3.1	2095	Joint Configuration	90% Long. & Circ.	UT	11	17	
CSC-P-F 04- 09 & 04- 03	Flange to Outlet Elbow Weld, Pump C C-F/C3.1	2095	Joint Configuration	90% Long. & Circ.	UT	11	17	
CSC-P-G 04- 09 & 04- 03	Stuffing Box to Outlet Elbow Weld, Pump C C-F/C3.1	2095	Joint Configuration	75% Long. & Circ.	UT	11	17	
CSB-P-A 04- 09 & 04- 06	Inlet Flange to Nozzle Weld, Pump B C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSB-P-B 04- 09 & 04- 06	Inlet Nozzle to Casing Weld, Pump B C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSB-P-C 04- 09 & 04- 06	Casing Weld, Pump B C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSB-P-D 04- 09 & 04- 06	Outlet Head to Casing Weld, Pump B C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSB-P-E 04- 09 & 04- 06	Elbow to Outlet Head Weld, Pump B C-F/C3.1	2093	Joint Configuration	90% Long. & Circ.	UT	11	17	
CSB-P-F 04- 09 & 04- 06	Flange to Outlet Elbow Weld, Pump B C-F/C3.1	2093	Joint Configuration	90% Long. & Circ.	UT	11	17	
CSB-P-G 04- 09 & 04- 06	Stuffing Box to Outlet Elbow Weld, Pump B C-F/C3.1	2093	Joint Configuration/ Recording of Geometric Reflector Data NES NCR 799	75% Long. & Circ.	UT	11	17,26	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
CSD-P-A 04- 09 & 04- 06	Inlet Flange to Nozzle Weld, Pump D C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSD-P-B 04- 09 & 04- 06	Inlet Nozzle to Casing Weld, Pump D C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSD-P-C 04- 09 & 04- 06	Casing Weld, Pump D C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSD-P-D 04- 09 & 04- 06	Outlet Head to Casing Weld, Pump D C-F/C3.1	2225	Incased in Concrete	0% Long. & Circ.	UT	11	17	
CSD-P-E 04- 09 & 04- 06	Elbow to Outlet Head Weld, Pump D C-F/C3.1	2093	Joint Configuration	90% Long. & Circ.	UT	11	17	
CSD-P-F 04- 09 & 04- 06	Flange to Outlet Elbow Weld, Pump D C-F/C3.1	2093	Joint Configuration	90% Long. & Circ.	UT	11	17	
CSD-P-G 04- 09 & 04- 06	Stuffing Box to Outlet Elbow Weld, Pump D C-F/C3.1	2093	Joint Configuration/ Recording of Geometric Reflector Data NES NCR 799	75% Long. & Circ.	UT	11	17, 26	Note 7
RHA-P-A1 01- 27 & 01- 03	Pump A Support Anchor 1 1/4" Dia. Bolting C-E-2/C3.4	None	Incased in Concrete	100% of Accessible Bolting	VT	11	18	
RHB-P-A1 01- 27 & 01- 06	Pump B Support Anchor 1 1/4" Dia. Bolting C-E-2/C3.4	None	Incased in Concrete	100% of Accessible Bolting	VT	11	18	
RHC-P-A1 01- 27 & 01- 08	Pump C Support Anchor 1 1/4" Dia. Bolting C-E-2/C3.4	None	Incased in Concrete	100% of Accessible Bolting	VT	11	18	
RHD-P-A1 01- 27 & 01- 10	Pump D Support Anchor 1 1/4" Dia. Bolting C-E-2/C3.4	None	Incased in Concrete	100% of Accessible Bolting	VT	11	18	
HP-P-A 02-106	Pump Support, Anchor 8 1-1/4" Dia. Studs C-E-2/C3.4	None	Incased in Concrete	100% of Accessible Bolting	VT	11	18	
CSA-P-A1 04- 09 & 04- 03	Pump A Support Anchor 1 1/4" Dia. Bolting C-E-2/C3.4	None	Incased in Concrete	100% of Accessible Bolting	VT	11	18	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2'

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
CSC-P-A1 04- 09 & 04- 03	Pump C Support Anchor 1 1/4" Dia. Bolting C-E-2/C3.4	None	Incased in Concrete	100% of Accessible Bolting	VT	11	18	2
CSB-P-A1 04- 09 & 04- 06	Pump B Support Anchor 1 1/4" Dia. Bolting C-E-2/C3.4	None	Incased in Concrete	100% of Accessible Bolting	VT	11	18	
CSD-P-A1 04- 09 & 04- 06	Pump D Support Anchor 1 1/4" Dia. Bolting C-E-2/C3.4	None	Incased in Concrete	100% of Accessible Bolting	VT	11	18	
RHR-HXA-3 01- 24	Heat Exchanger (A) Shell 3 to Shell 2 Weld C-A/C1.1	2056	Joint Configuration	90% Long. & Circ.	UT	1	21	
RHR-HXA-4 01- 24	Heat Exchanger (A) Shell 1 to Flange Weld C-A/C1.1	2233	Studs and Nuts on Flange Side	75% Long. 100% Circ.	UT	1	21	
RHR-HXB-3 01- 24	Heat Exchanger (B) Shell 3 to Shell 2 Weld C-A/C1.1	2061	Joint Configuration	90% Long. & Circ.	UT	1	21	
RHR-HXB-4 01- 24	Heat Exchanger (B) Shell to Flange Weld C-A/C1.1	2234	Studs and Nuts on Flange Side	74% Long. 100% Circ.	UT	1	21	
MSC-036 03- 05	26" Pipe to 8" Sweep-O-Let C-F/C2.3	2003	Adjacent Nozzle Blocking Scan Path	100% Long. 90% Circ.	UT	13	22	
HP-P-B 02-106	Pump Casing Stud Bolting 38 1-3/4" Dia. Studs C-D/C3.2	2232	Pump Manufacturer's Visual Inspection Considered Adequate	0% Visual 100% UT	VT/UT	11	23	
PSV-51-1F055A-B 01- 03A	6" x 10" Relief Valve Bolting 6 Studs and Nuts C-D/C4.2	2271	Valve Bonnet Blocking Access to One Side of Four Nuts	100% Visual 95% Surface	VT/MT	17	24	A
PSV-51-1F055B-B 01- 06A	6" x 10" Relief Valve Bolting 6 Studs & Nuts C-D/C4.2	2272	Valve Bonnet Blocking Access to One Side of Four Nuts	100% Visual 95% Surface	VT/MT	17	24	A
HV-51-182A-B 01- 26 & 10- 01	22" Motorized Gate Valve Bolting 24 Studs & Nuts C-D/C4.2	2298	N/A, See Relief Request	0% Visual & Surface	VT/MT	1	24	A

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2'

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
HV-51-182B-B 01- 26 & 10- 01	22" Motorized Gate Valve Bolting 24 Studs & Nuts C-D/C4.2	2298	N/A, See Relief Request	0% Visual & Surface	VT/MT	1	24	A
RHA-006 01- 01	12" Pipe to Valve (HV-1F041A) B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RHA-009 01- 01	12" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RHC-007A 01- 07	12" Pipe to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	JT	None	25	
RHC-009 01- 07	12" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
HP-007 02- 01	10" Pipe to Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	A
HP-011 02- 01	10" Pipe to Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
HP-012 02- 01	10" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
MSD-019 03- 04	26" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
CSA-012 04- 01	12" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
FWA-019A 05- 01	12" Pipe to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
FWA-030 05- 01	24" Pipe to Valve (HV-1F011A) B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
FWB-008A 05- 03	12" Pipe to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
FWB-021 05- 03	12" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
FWB-027 05- 03	24" Pipe to Valve (HV-1F011B) B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RC-009 06- 01	4" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RC-127 06- 01	Valve (HV-1F007) to 3" Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RC-130 06- 01	3" Pipe to Flued Head (X-10) B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RRB-036LU-Max. 07- 02	12" Elbow Seam Maximum Radius B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	A
RW-023R1 08- 01	4" Pipe to Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-030 08- 01	45 Degree Elbow to 4" Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-033 08- 01	4" Pipe to Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-038 08- 01	4" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-039 08- 01	4" Pipe to Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-042 08- 01	4" Elbow to Flued Head (X-44) Process Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	A
RW-046 08- 01	Valve (1017) to 4" Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RW-049 08- 01	4" Pipe to Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	2
RW-050 08- 01	4" Pipe to Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-051 08- 01	4" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-052 08- 01	4" Pipe to 45 Degree Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-055 08- 01	4" Pipe to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-057 08- 01	4" Pipe to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-060 08- 03	Nozzle (N15) to 2" Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-061 08- 03	2" Elbow to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-117 08- 04	2" Valve (1F050) to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-121 08- 04	4" Pipe to Elbow B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RW-124 08- 04	Flow Element (FE-1N038) to 4" Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	25	
RHA-016A 01- 02	12" Elbow to 18" x 12" Reducer C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHA-027A 01- 02	18" x 18" x 18" Tee to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RHA-149A 01- 02	16" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	2
RHA-035A 01- 03	18" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHA-039A 01- 03	18" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHA-053A 01- 03	18" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHA-066A 01- 03	24" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHA-107A 01- 03	18" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHA-112 01- 03	20" x 18" Reducer to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHB-124R1 01- 06	8" Elbow to Valve HV-C-103B C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHB-115 01- 06A	18" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHC-015 01- 07	12" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHC-019B 01- 07	18" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A
RHC-021 01- 07	18" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHC-026A 01- 07	18" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RHC-030 01- 07	18" Elbow to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A 2
RHD-047B 01- 09	18" Tee to 18" Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHD-056A 01- 10	18" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-085A 01- 12	16" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-038A 01- 13	20" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-038B 01- 13	20" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-070R 01- 13	20" Valve (1F067A) to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A
RH-128A 01- 14	10" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHA-225 01- 16	6" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-170A 01- 17	18" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHB-170 01- 19	10" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-199A 01- 20	6" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-200B 01- 20	6" Tee to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RH-207A 01- 20	6" Tee to 6" Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-208 01- 20	6" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-209 01- 20	Elbow to 6" Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RH-210 01- 20	6" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHA-255 01- 26	18" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RHA-261A 01- 26	18" Elbow to Tee C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A
HP-032R 02- 01	12" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A
HP-035R 02- 01	12" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A
HP-082 02- 03	20" x 12" Reducer to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
HP-097A 02- 04	14" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A
HP-147A 02- 07	8" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A
MSA-030B 03- 03	26" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
MSB-030A 03- 03	26" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2'

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
MSD-030A 03- 05	26" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
MSD-030B 03- 05	26" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
MSD-036 03- 05	26" Pipe to 6" Sweepolet C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
MS-014 03- 06	26" x 26" x 14" Tee to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
MS-017 03- 06	14" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
CSA-021C 04- 02	14" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
CSA-036A 04- 03	12" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
CSA-055 04- 03	16" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
CSA-056A 04- 03	16" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
CSB-019 04- 05	12" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
CSB-027 04- 05	14" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
CSB-058R 04- 07	16" x 16" x 14" Tee to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26
CSB-062 04- 07	16" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
CSB-086A 04- 07	14" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	2
CSB-092R 04- 07	16" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
CSB-094R 04- 07	16" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
CSC-002 04- 08	6" Pipe to Valve (HV-127) C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
CSC-008A 04- 08	Elbow to 6" Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
FWA-042 05- 02	Valve (HV-1F105) to 8" Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
FWB-003 05- 03	12" Pipe to Pipe B-J/B4.5	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-052A 06- 02	6" Elbow to 6" x 3" Reducer C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-104R 06- 04	10" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-108 06- 04	10" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-110 06- 04	10" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A
RC-111 06- 04	10" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-112 06- 04	10" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
RC-113 06- 04	10" Pipe to 45 Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-115 06- 04	10" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-116 06- 04	10" Pipe to Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-117 06- 04	10" Elbow to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-119 06- 04	10" x 8" Reducer to 8" Elbow C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RC-121A 06- 04	8" Pipe to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	A
RDA-002 09- 01	8" Pipe to Tee C-G/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RDA-013 09- 01	8" Tee to Pipe C-G/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RDA-015 09- 01	8" Elbow to Pipe C-G/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RDA-021 09- 01	45 Degree Elbow to 8" Pipe C-G/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RDA-026 09- 01	8" Tee to Pipe C-G/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RDB-017 09- 02	8" Pipe to Tee C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	
RDB-019 09- 02	8" Tee to Pipe C-F/C2.1	None	Recording of Geometric Reflector Data NES NCR 799	100% Long. & Circ.	UT	None	26	

2

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
DCA-105-H002 01-111	Pipe Support, 4 Lugs B-K-1/B4.9	2268	Adjacent Circ. Weld	100% Long. 80% Circ.	UT	3	27	A
RHR-HXA-B 01- 24	Shell Flange 1 1/8" Stud Bolting C-L/C1.4	2310	64 Studs & 128 Nuts Per Each of 2 Heat Exchangers	0% Visual & Surface	VT/MT	1	28	A
RHR-HXB-B 01- 24	Shell Flange 1 1/8" Stud Bolting C-D/C1.4	2310	64 Studs & 128 Nuts Per Each of 2 Heat Exchangers	0% Visual & Surface	VT/MT	1	28	A
RHB-003 01- 04	Valve (1F065B) to 12" Pipe B-J/B4.5	2008	IEAR Voided	100% Long. & Circ.	UT	N/A	N/A	D/6
RHB-004 01- 04	12" Pipe to Elbow B-J/B4.5	2009	IEAR Voided	100% Long. & Circ.	UT	N/A	N/A	D/6
RHB-005LD-Max. 01- 04	Elbow Seam Max. Radius B-J/B4.5	None	Relief Request Deleted	100% Long. & Circ.	UT	N/A	N/A	
RHD-004 01- 09	12" Pipe to Elbow B-J/B4.5	2007	IEAR Voided	100% Long. & Circ.	UT	N/A	N/A	D/6
S1-1F067A-B 01- 13	20" Gate Valve Bolting N/A	2253	IEAR Voided	N/A	N/A	N/A	N/A	D/24
S1-1F067B-B 01- 13	20" Gate Valve Bolting N/A	2253	IEAR Voided	N/A	N/A	N/A	N/A	D/24
S1-HV-1F006A-B 01- 13	20" Motorized Gate Valve Bolting N/A	2253	IEAR Voided	N/A	N/A	N/A	N/A	D/24
S1-HV-1F006B-B 01- 13	20" Motorized Gate Valve Bolting N/A	2253	IEAR Voided	N/A	N/A	N/A	N/A	D/24
RH-160 01- 14	Valve (HV-C-154A) to 10" x 6" Reducer C-F/C2.1	2074	IEAR Voided	100% Long. & Circ.	UT	N/A	N/A	D/13
RH-194A 01- 20	6" Pipe to Pipe C-F/C2.1	2231	Weld Deleted From Program Plan	N/A	N/A	N/A	N/A	D/13
S1-PSV-1F097-B 01- 21	4" x 6" Relief Valve Bolting N/A	2253	IEAR Voided	N/A	N/A	N/A	N/A	D/24
RHR-HXB-1 01- 24	Heat Exchanger (B) Head to Shell 4 Weld C-A/C1.1	2227	IEAR Voided	100% Long. & Circ.	UT	N/A	N/A	D/21

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====	
								2
HBB-118-H050 01-106	Pipe Support N/A	None	Designr. Change, Integral Attachments Deleted	N/A	N/A	N/A	N/A	D/16
HBB-118-H012 01-113	Pipe Support N/A	None	Design Change Integral Attachments Deleted	N/A	N/A	N/A	N/A	D/16
HP-013A 02- 01	10" Tee to Blind Flange B-J/B4.5	2192	IEAR Voided	100% Long. & Circ.	UT	N/A	N/A	D/6
55-HV-1F001-B 02- 02	10" Motorized Globe Valve Bolting N/A	2254	IEAR Voided	N/A	N/A	N/A	N/A	D/24
55-HV-1F006-B 02- 04	12" Motorized Gate Valve Bolting N/A	2254	IEAR Voided	N/A	N/A	N/A	N/A	D/24
55-HV-1F007-B 02- 04	14" Motorized Gate Valve Bolting N/A	2254	IEAR Voided	N/A	N/A	N/A	N/A	D/24
41-HV-111-B 03- 05	8" Motorized Gate Valve Bolting N/A	2252	IEAR Voided	N/A	N/A	N/A	N/A	D/24
HBB-120-H019 04-103	Pipe Support N/A	None	Design Change, Integral Attachments Deleted	N/A	N/A	N/A	N/A	D/16
RC-058R2 06- 03	6" Pipe to 6" x 6" x 4" Tee C-F/C2.1	2006	IEAR Voided	100% Long. & Circ.	UT	N/A	N/A	D/13
RRA-027LD-Max. 07- 01	Elbow Seam Max. Radius B-J/B4.5	None	Relief Request Deleted	100% Long. & Circ.	UT	N/A	N/A	
RRA-027LD-Min. 07- 01	Elbow Seam Min. Radius B-J/B4.5	None	Relief Request Deleted	100% Long. & Circ.	UT	N/A	N/A	
RRA-028LU-Max. 07- 01	Elbow Seam Max. Radius B-J/B4.5	None	Relief Request Deleted	100% Long. & Circ.	UT	N/A	N/A	
RRA-028LU-Min. 07- 01	Elbow Seam Min. Radius B-J/B4.5	None	Relief Request Deleted	100% Long. & Circ.	UT	N/A	N/A	
RRA-037LD-Max. 07- 01	Elbow Seam Max. Radius B-J/B4.5	None	Relief Request Deleted	100% Long. & Circ.	UT	N/A	N/A	
RRA-038LU-Max. 07- 01	Elbow Seam Max. Radius B-J/B4.5	None	Relief Request Deleted	100% Long. & Circ.	UT	N/A	N/A	

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 1, REV. 2

Component Ident. No. Isometric Dwg No. =====	Component Description Code Category/Item No. =====	IEAR No. =====	Obstruction/Remarks =====	% Complete =====	Method =====	SIC =====	Relief Request No. =====
RDA-019 09- 01	8" Elbow to Pipe C-G/C2.1	None	Relief Request Deleted	100% Long. & Circ.	UT	N/A	N/A
RDS-011 09- 02	8" Pipe to Elbow C-G/C2.1	None	Relief Request Deleted	100% Long. & Circ.	UT	N/A	N/A

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 2, REV. 1
CLASS 1 VALVES, EXAMINATION CATEGORY B-M-2, B6.7

System	Valve Group	Valve Number	IEAR No.	Manufacturer	Valve Description	Mfg. Method	SIC	Relief Request No.
=====	=====	=====	=====	=====	=====	=====	=====	=====
MS	1	41-HV-1F028A, B, C, D	2305	Atwood & Morrill	26" Globe Valve	Cast	None	10
MS	1	41-HV-1F022A, B, C, D	2305	Atwood & Morrill	26" Globe Valve	Cast	None	10
MS	2	41-PSV-1F013A-H, J-N, S	2305	Target Rock	8" Relief Valve	Forged	None	10
FW	3	41-HV-1F011A, B	2305	Anchor Darling	24" Gate Valve	Cast	None	10
FW	4	41-1F010A, B	2305	Atwood & Morrill	24" Check Valve	Cast	None	10
FW	4	41-HV-1F074A, B	2305	Atwood & Morrill	24" Check Valve	Cast	None	10
RR	5	43-HV-1F023A, B	2305	Lunkenheimer	24" Gate Valve	Cast	None	10
RR	5	43-HV-1F031A, B	2305	Lunkenheimer	24" Gate Valve	Cast	None	10
RW	6	44-HV-1F001	2305	Anchor Darling	6" Globe Valve	Cast	None	10
RW	6	44-HV-1F004	2305	Anchor Darling	6" Globe Valve	Cast	None	10
RW	7A	44-HV-C-1F105	2305	Anchor Darling	6" Gate Valve	Cast	None	10
RW	7A	44-1F027	2305	Anchor Darling	6" Gate Valve	Cast	None	10
RW	7B	44-HV-1F100	2305	Velan	6" Gate Valve	Forged	None	10
RH	8	51-1F077	2305	Anchor Darling	20" Gate Valve	Cast	None	10
RH	8	51-HV-1F017A, B, C, D	2305	Anchor Darling	12" Gate Valve	Cast	None	10
RH	8	51-1F060A, B	2305	Anchor Darling	12" Gate Valve	Cast	None	10
RH	9	51-HV-1F015A, B	2305	Anchor Darling	12" Globe Valve	Cast	None	10
RH	9	51-HV-1F023	2305	Anchor Darling	6" Globe Valve	Cast	None	N/A
RH	10	51-1F019	2305	Anchor Darling	6" Check Valve	Cast	None	10
RH	11	51-HV-1F050A, B	2305	Atwood & Morrill	12" Check Valve	Cast	None	10
RH	11	51-HV-1F041A, B, C, D	2305	Atwood & Morrill	12" Check Valve	Cast	None	10
RH	12	51-HV-1F008	2305	Velan	20" Gate Valve	Forged	None	10
RH	12	51-HV-1F009	2305	Velan	20" Gate Valve	Forged	None	10



D/10

LIMERICK GENERATING STATION, UNIT 1
COMPONENT SUMMARY TABLE, PART 2, REV. 1
CLASS 1 VALVES, EXAMINATION CATEGORY B-M-2, B6.7

System	Valve Group	Valve Number	IEAR No.	Manufacturer	Valve Description	Mfg. Method	SIC	Relief Request No.
=====	=====	=====	=====	=====	=====	=====	=====	=====
RH	12	51-1F065A, B, C, D	2305	Velan	12" Gate Valve	Forged	None	10
RH	12	51-HV-1F022	2305	Velan	6" Gate Valve	Forged	None	10
CS	13	52-HV-108	2305	Anchor Darling	12" Check Valve	Cast	None	10
CS	14	52-HV-1F005	2305	Anchor Darling	12" Gate Valve	Cast	None	10
CS	15	52-HV-1F006A, B	2305	Atwood & Morrill	12" Check Valve	Cast	None	10
CS	16	52-1F007A, F	2305	Velan	12" Gate Valve	Forged	None	10
HP	17	55-HV-1F002	2305	Anchor Darling	10" Globe Valve	Cast	None	10
HP	17	55-HV-1F003	2305	Anchor Darling	10" Globe Valve	Cast	None	10



Attachment 3

Attachment #1 to Summary Report #1

ATTACHMENT 3

ATTACHMENT #1:
to SUMMARY REPORT #1

Effect of RPV Nozzle Configurations on Category BD
Examinations for Limerick #1

REFERENCE:

Philadelphia Electric Company
Limerick Nuclear Generating Station
Contract #8031-M-246B
Unit #1 - RPV Pre-Service Ultrasonic Examination

This report is presented to document the effect of the Limerick Unit #1 RPV nozzle configurations on the ASME Section XI Category BD Ultrasonic Examination.

The Limerick Unit #1 RPV contains 34 nozzles requiring ultrasonic examination under Code Category BD. These nozzles are fabricated from six basic forging configurations. The configurations and the nozzles fabricated from them are:

Type "A"	30.082"	nominal OD	N1 A and B
Type "B"	27.281"	nominal OD	N3 A, B, C and D
Type "C"	14.250"	nominal OD	N2 A, B, C, D, E, F, G, H, J and K N4 A, B, C, D, E and F N5 A and B N17 A, B, C and D
Type "D"	9.250"	nominal OD	N6 A and B (closure head)
Type "E"	6.250"	nominal OD	N8 A and B N9
Type "F"	6.250"	nominal OD	N7 (closure head)

The basic nozzle configurations are shown, by type, in Figures 1 through 6.

Each of the basic nozzle configurations has the same limiting factor to the examination of the attachment weld. The factor is the radius on the nozzle side of the weld centerline. The radius causes the search unit to lift (lose contact) as it crosses the centerline. The lifting of the search unit affects both the "T" scan (transverse to the weld) and the "P" scan (parallel to the weld) of all 34 nozzles.

The examination of 28 nozzles was performed using remote automatic examination equipment. The remaining six nozzles were manually examined. The nozzle configuration had the greatest effect on the remote automatic examinations. This is due to the requirement that the search unit (package) forward movement on "T" scans be terminated prior to damaging the scanner. The "T" scans are considered to have terminated an average of .5" from the weld centerline, on the vessel side of the weld centerline unless otherwise noted. This stopping point is considered to provide the examination of the maximum feasible volume on an otherwise unrestricted nozzle to vessel weld. When factors such as weld reinforcement make it necessary to terminate the scan at a point farther from the weld centerline, the actual termination points are noted on the data sheets. In cases such as this, the actual scan termination points are used to calculate the unexamined volumes. When configuration causes examination of a smaller than average volume, the affected examination shall be noted in the final report as being restricted. Examinations which meet or exceed the average examined volume shall be considered as complete examinations.

Figures 7 through 12 show the unexamined volume due to the nozzle configuration for each nozzle type. The calculations were made treating the sound beam as a single ray, taking no credit for beam spreading. This treatment yields a conservative result. The calculations are based on the 45° and 60° beaming angles used at Limerick.

In this report, unexamined volume is considered to be the portion that is interrogated by neither beaming angle. Partially examined volume is the portion that is interrogated by the 60° beaming angle only. Fully examined volume is the portion that is interrogated by both the 45° and 60° beaming angles. It is important to note here that the examinations were performed from the shell side of the weld only due to the referenced nozzle configurations.

Calculations of the average unexamined, partially examined and fully examined volumes for "T" scans of the six nozzle forging types are as follows:

Figure 7	Type "A"	Fully Examined	79.29%
	30.081" OD	Partially Examined	6.80%
	N1 Nozzles	Unexamined	13.91%
Figure 8	Type "B"	Fully Examined	73.26%
	27.281" OD	Partially Examined	6.30%
	N3 Nozzles	Unexamined	20.44%
Figure 9	Type "C"	Fully Examined	77.55%
	14.250" OD	Partially Examined	7.80%
	N2 Nozzles	Unexamined	14.65%
	N4 Nozzles		
	N5 Nozzles		
Figure 10	Type "D"*	Fully Examined	72.36%
	9.250" OD**	Partially Examined	9.67%
	N6 Nozzles	Unexamined	17.97%
Figure 11	Type "E"	Fully Examined	78.22%
	6.250" OD	Partially Examined	7.65%
	N8 Nozzles	Unexamined	14.13%
	N9 Nozzles		
Figure 12	Type "F"	Fully Examined	76.24%
	6.250" OD	Partially Examined	7.27%
	N7 Nozzle	Unexamined	16.49%

* Restriction varies.

** Worst case calculation.

In all six nozzle forging configurations, the "P" scans of the nozzle side of the weld were not performed. The unexamined "P" scan volume therefore equals 50% for all configurations.

Limited examinations occurred on four Type C nozzles. The restriction to the scanning were caused by either the package lifting off the weld at a point farther from the weld centerline than the average termination point or interference due to the placement of another nozzle.

The affected nozzles are:

N2B	60° stopped 1.375" short of the centerline due to lift off
N2G	60° stopped 1.375" short of the centerline due to lift off
N4B	60° stopped 1.375" short of the centerline due to lift off
N4D	T Scan interference due to the placement of Nozzle N11B

For these nozzles the percentages of the volumes that were fully examined, partially examined and unexamined are:

Type C	Fully Examined	75.42%
14.250" OD	Partially Examined	5.67%
N2B and G N4B	Unexamined	18.91%
N4D	Fully Examined	69.21%
		6.88%
		23.91%

DISCUSSION

Both ASME Section XI and ASME Section V recognize that not all configurations of weldments can be completely examined. Section V, Article 4, Paragraph T-441.4.4 states that, wherever feasible, the weld should be scanned from both sides on the same surface. When this is physically impossible due to the configuration of the weldment, the restriction is to be noted in the report of the examination.

As shown in Figures 7 through 12, the Category BD nozzle-to-vessel welds were examined from one side only due to the configuration. The partial examination is considered to satisfy Section V, Article 4 examination requirements, since 100% of the volume that could be examined (feasible) was examined. Due to the radius, alternate beaming angles offered no appreciable increase in examination volume. Full Vee Path calibrations and examinations were not performed due to both the inherently long metal paths involved and the inability to accurately predict the reflected angle of the sound beam when going through the vessel cladding.

NOT TO SCALE

TYPE "A" NOZZLE FORGING
30.082" NOMINAL O.D.
NOZZLE SIDE RADIUS 4.875"
NOZZLES N1 A AND N1 B
RECIRCULATION OUTLET

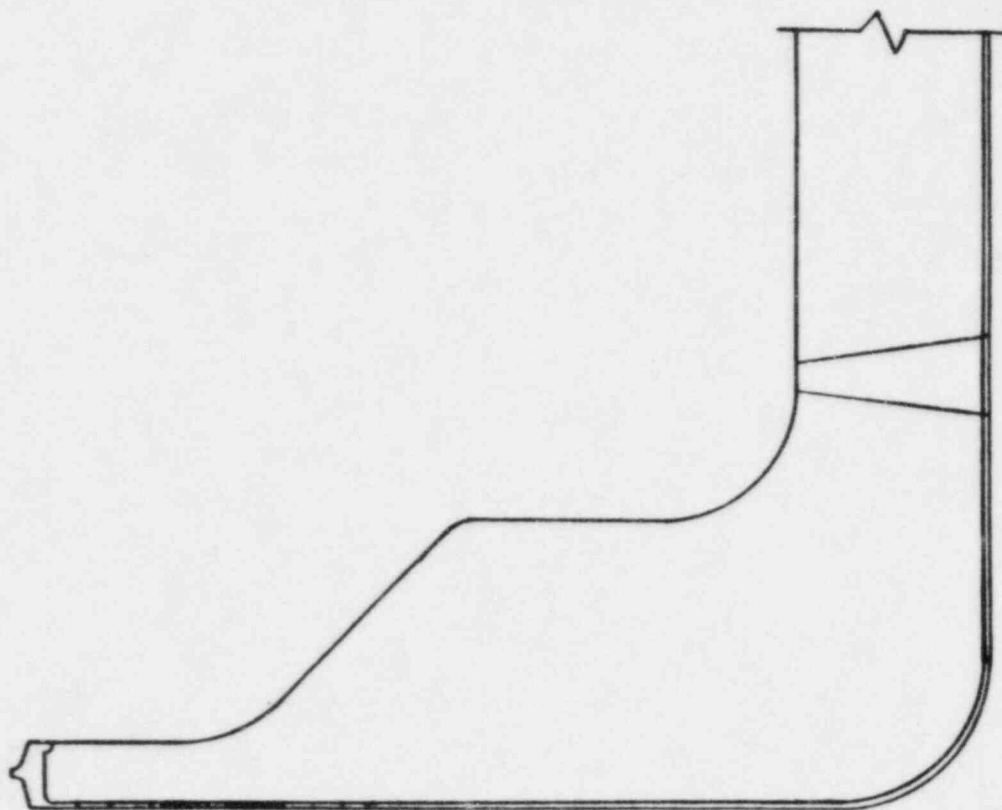


FIGURE 1

NOT TO SCALE

TYPE "B" NOZZLE FORGING
2" .281" NOMINAL O.D.
NOZZLE SIDE RADIUS 4.062"
NOZZLES N3 A THROUGH N3 D
STEAM OUTLET

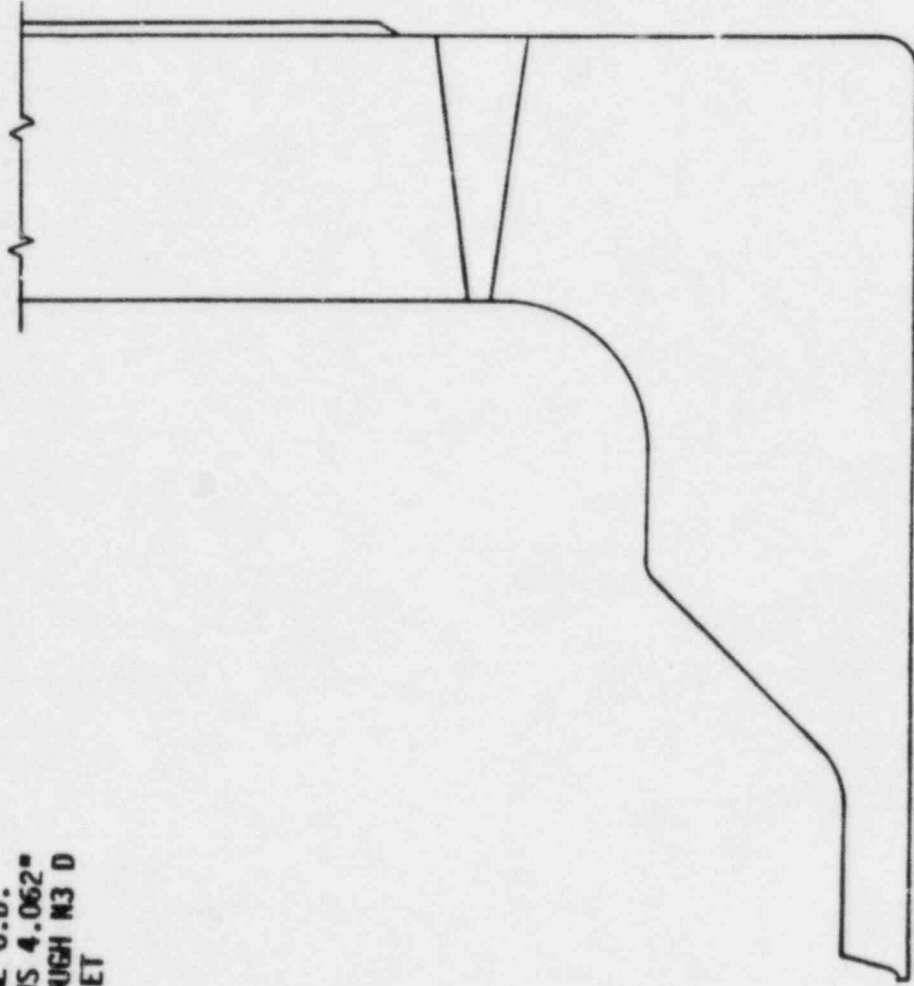


FIGURE 2

NOT TO SCALE

TYPE "C" NOZZLE FORGING
14.250" NOMINAL O.D.
NOZZLE SIDE RADIUS 3.562"
NOZZLES N2 A THROUGH N2 K
RECIRCULATION INLET

N4 A THROUGH N4 F
FEEDWATER INLET

N5 A AND N5 B
CORE SPRAY INLET

N17 A THROUGH N17 D
LOW-PRESSURE COOLANT INJECTION

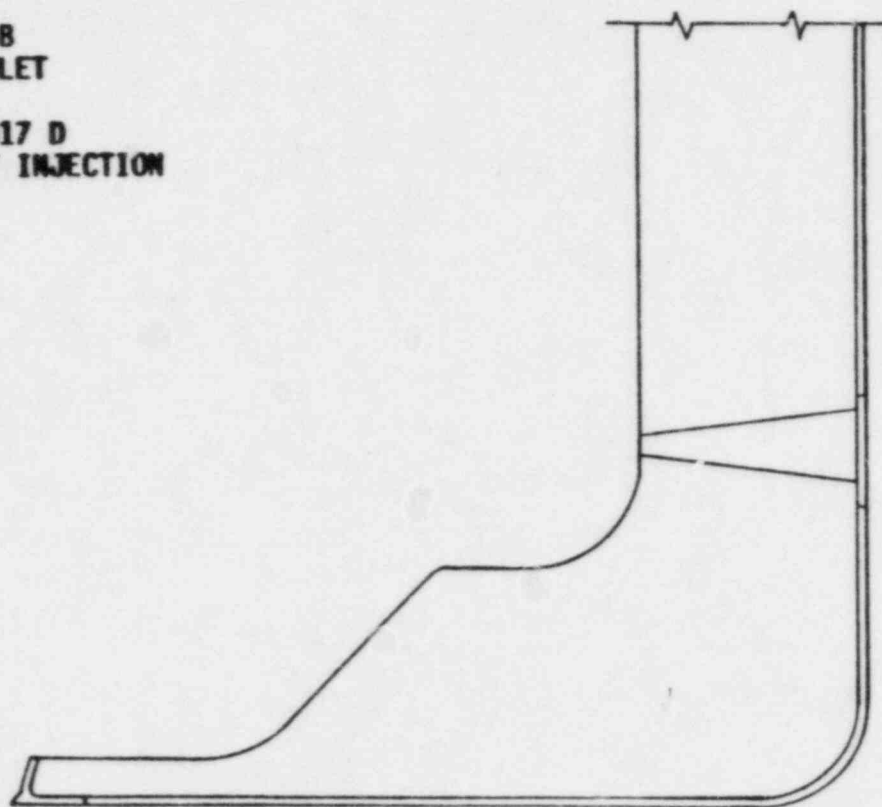


FIGURE 3

HOT TO SCALE

**TYPE "D" NOZZLE FORGING
9.250" NOMINAL O.D.
NOZZLE SIDE RADIUS 1.750" - 2.750"
NOZZLES #6 A AND #6 B
HEAD INSTRUMENTATION AND HEAD SPARE**

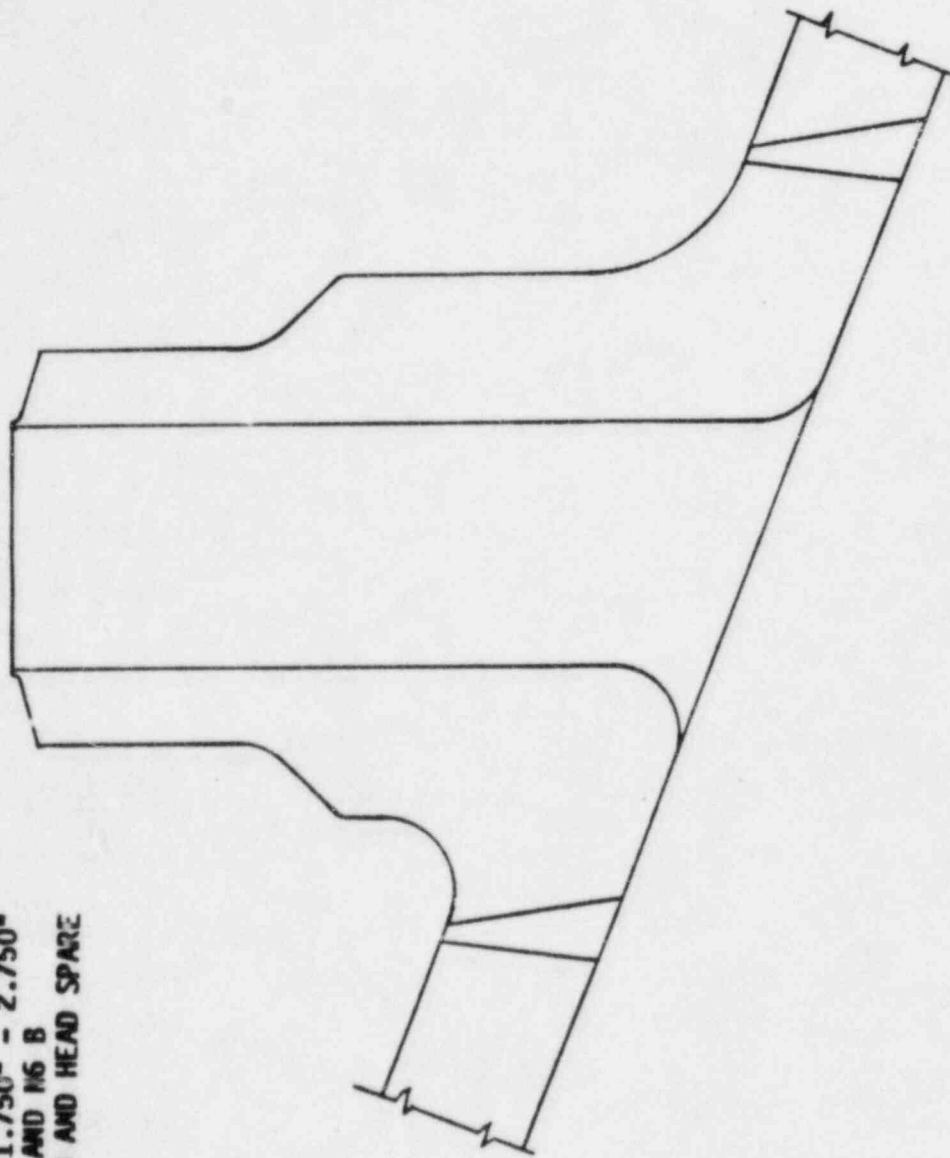


FIGURE 4

NOT TO SCALE

TYPE "E" NOZZLE FORGING
6.250" NOMINAL O.D.
NOZZLE SIDE RADIUS 3.125"
NOZZLES N8 A AND N8 B
JET PUMP INSTRUMENTATION

NOZZLE N9
CONTROL ROD DRIVE RETURN

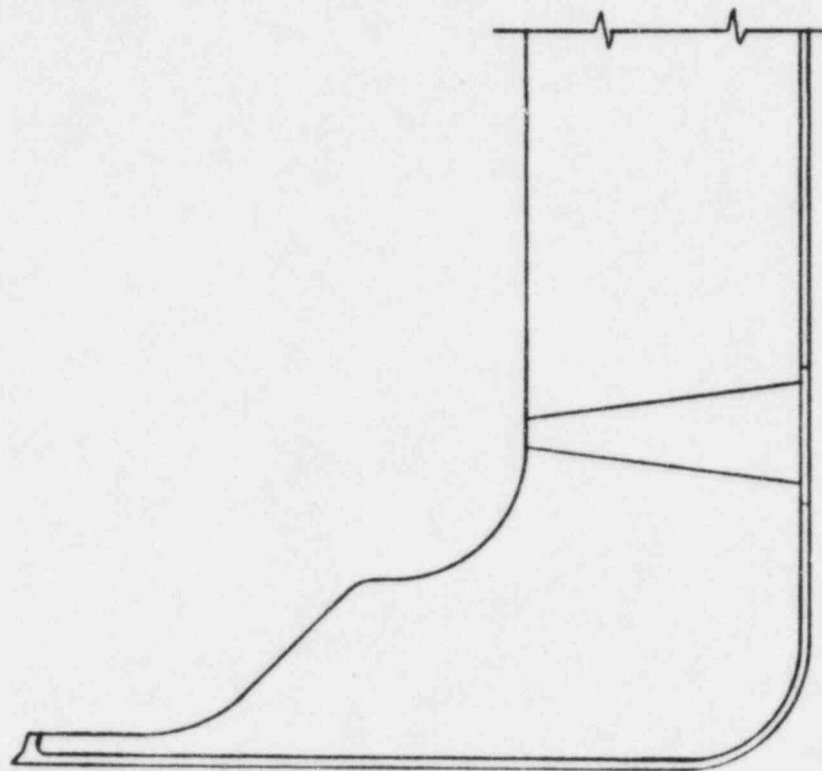


FIGURE 5

NOT TO SCALE

TYPE "F" NOZZLE FORGING
6.250" NOMINAL O.D.
NOZZLE SIDE RADIUS 1.625"
NOZZLE N7
HEAD VENT

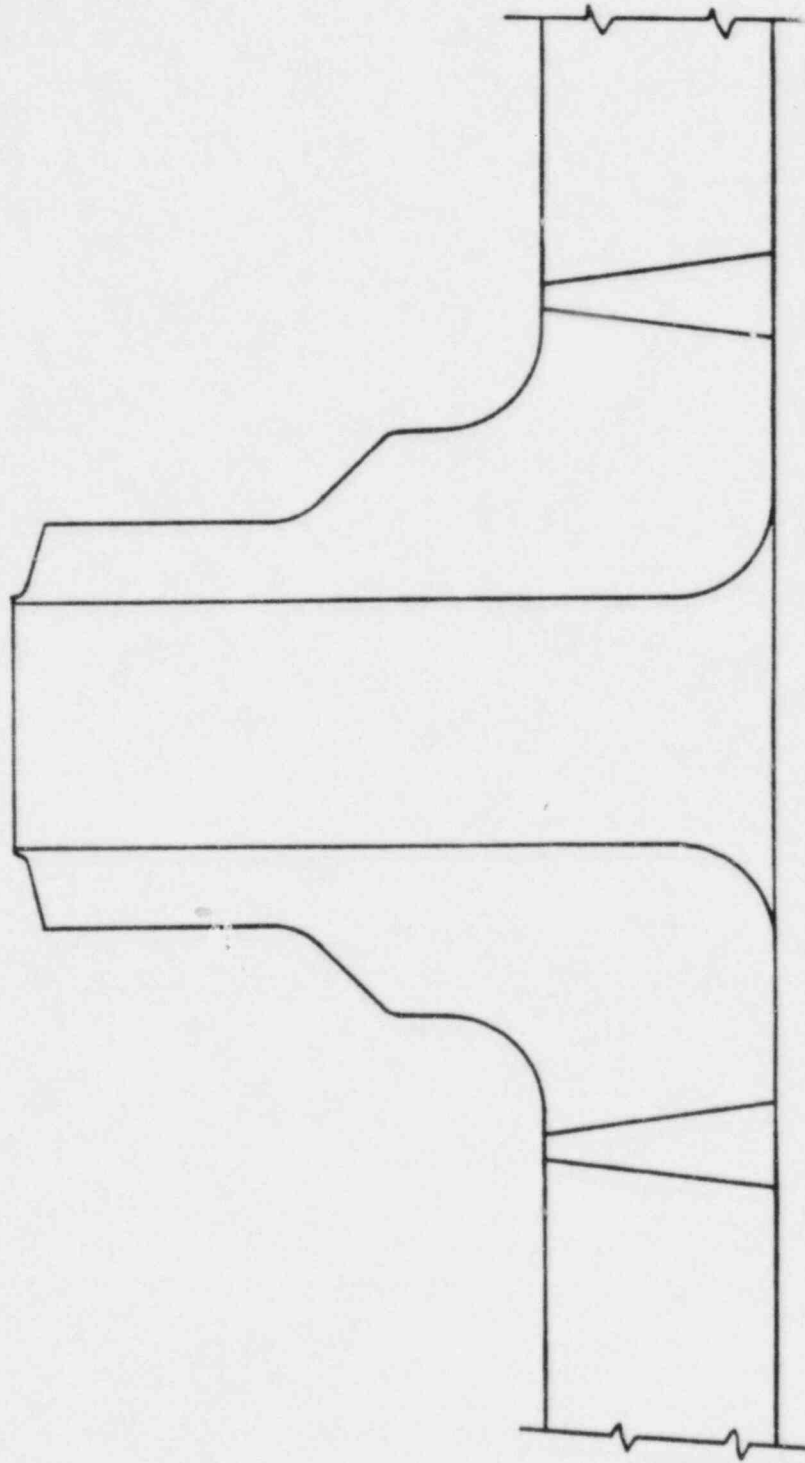


FIGURE 6

TYPE "A" 30.082 OD NOM.

EXAM AREA A, B, C, D = 64.84 in²

TOTALLY UNEXAMINED A, E, G = 9.02 in²

60° ONLY E, F, G = 4.41 in²

45° AND 60° B, C, D, F, E = 51.41 in²

TOTALLY UNEXAMINED VOLUME = 13.91%
OF THE IMB 2500-76 REQUIREMENT.

EXAMINATION PERFORMED FROM ONE SIDE
OF WELD ONLY IN ACCORDANCE WITH
SECTION V, ARTICLE 4, PARAGRAPH T-441.4.4.

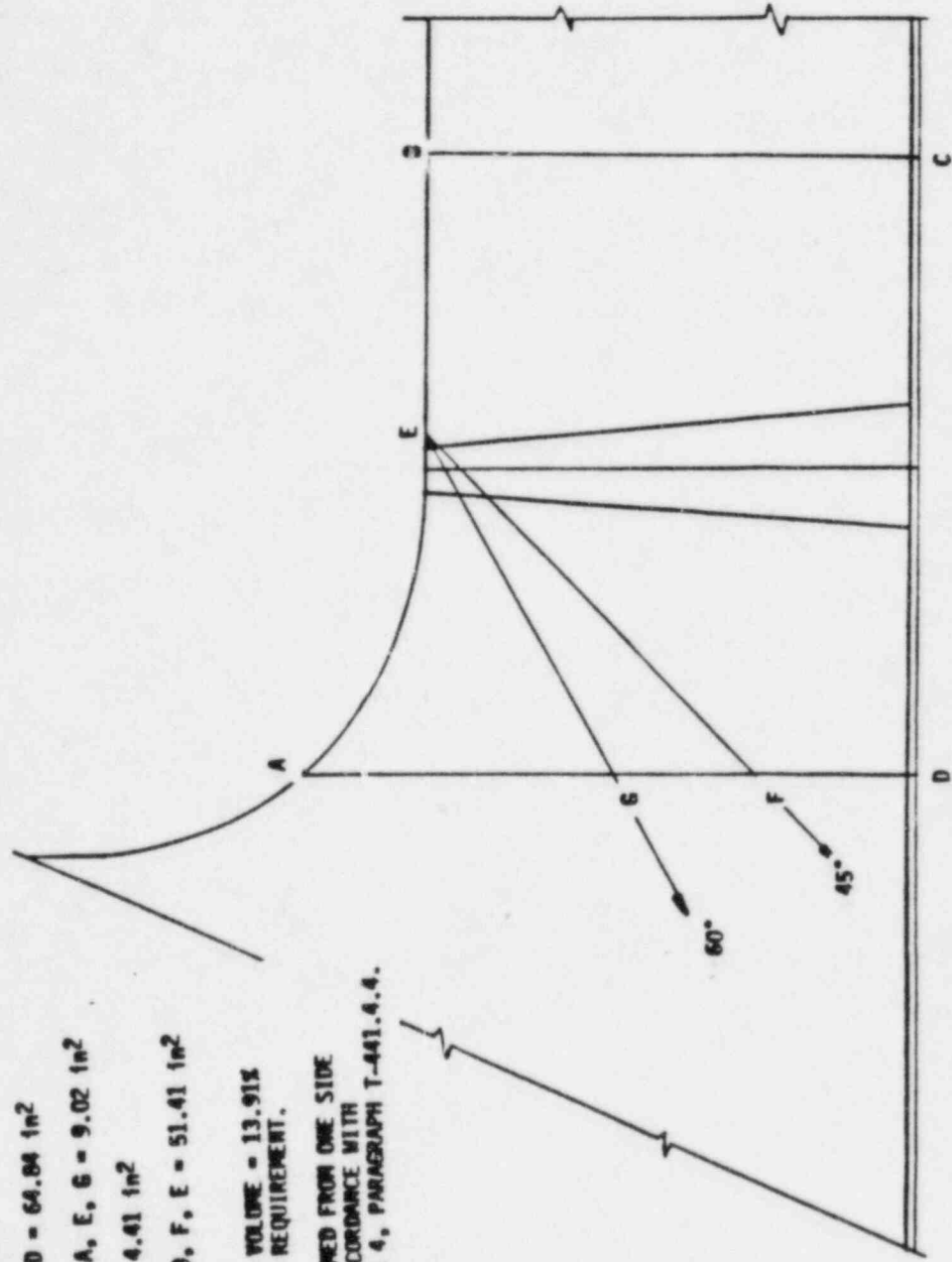


FIGURE 7

TYPE "B" 27.281 OD WRM.

EXAM AREA A, B, C, D = 68 in²

TOTALLY UNEXAMINED A, E, H, G = 13.89 in²

45° or 60° ONLY E, H, E' and H, F, G = 4.28 in²

45° AND 60° B, C, D, F, H, E' = 49.82 in²

TOTALLY UNEXAMINED VOLUME = 20.44%
OF THE IMB 2500-7b REQUIREMENT.

EXAMINATION PERFORMED FROM ONE SIDE
OF WELD ONLY IN ACCORDANCE WITH
SECTION V, ARTICLE 4, PARAGRAPH T-441.4.4.

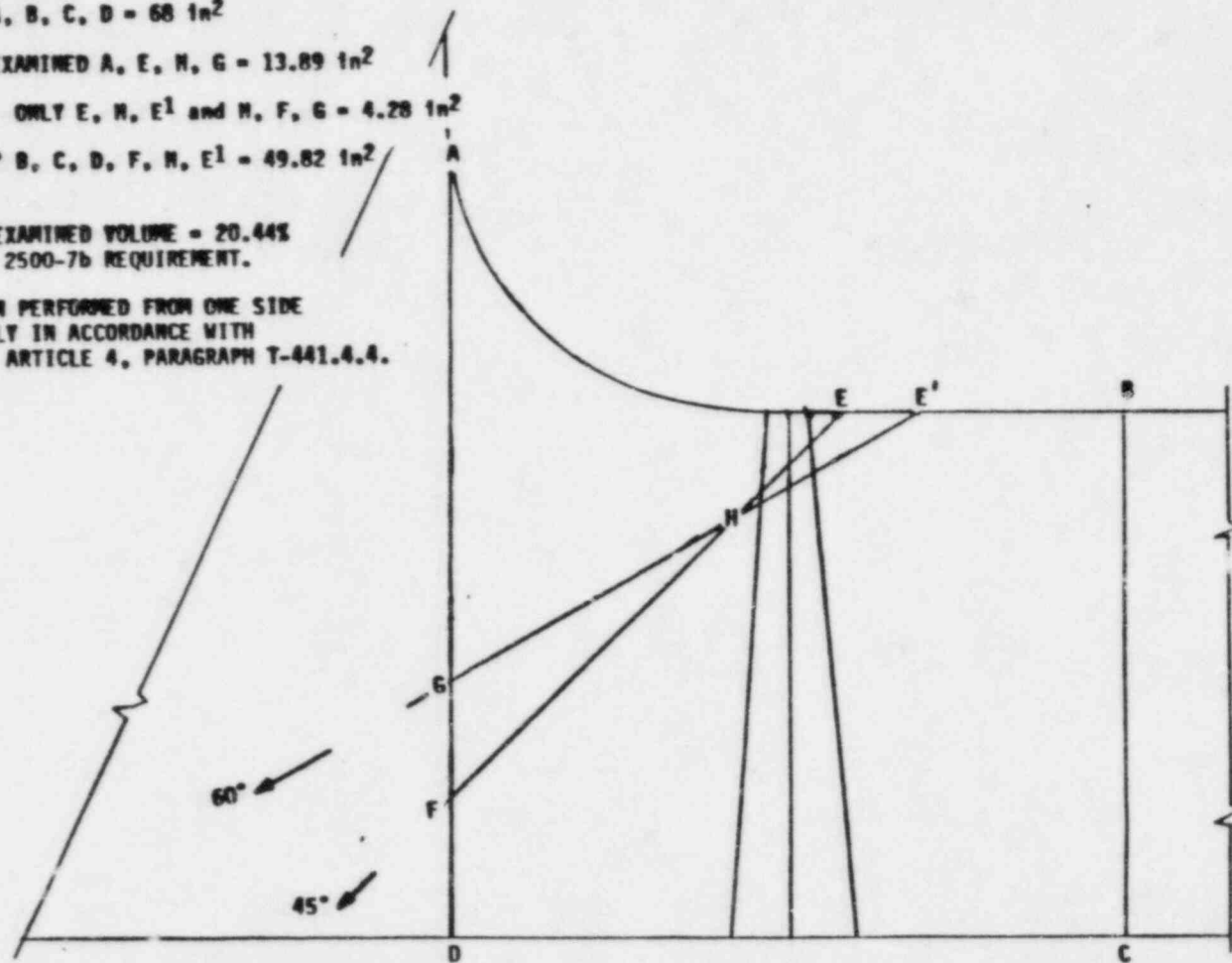
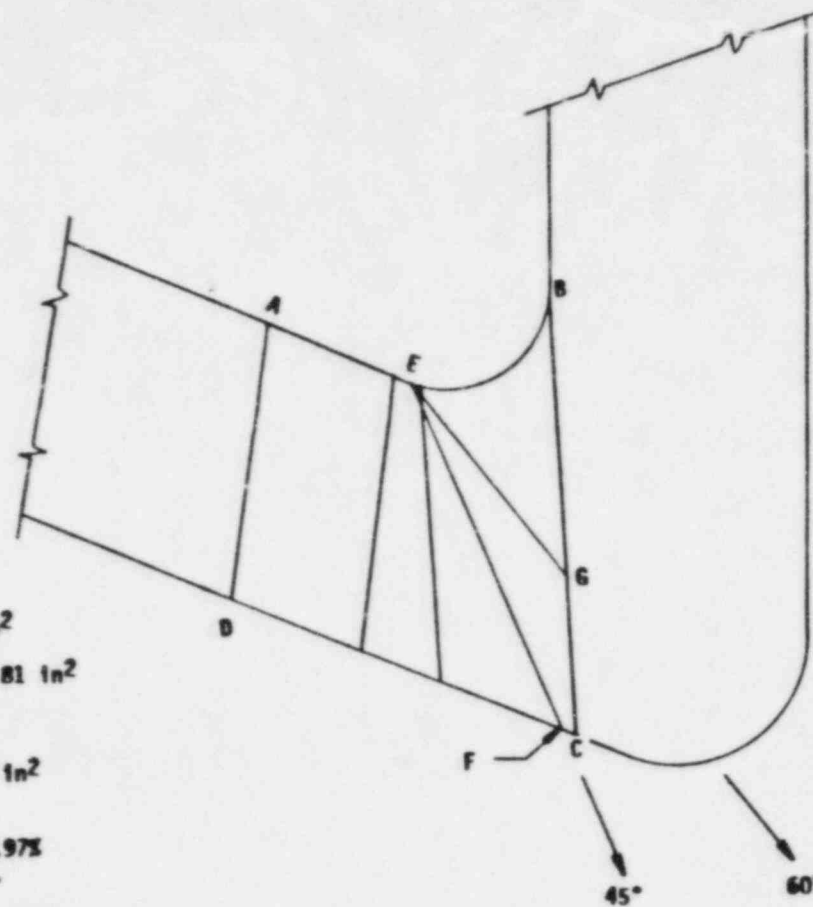


FIGURE 8

FIGURE 10



TYPE "D" 9.250" OD NOM.

EXAM AREA A, B, C, D = 15.83 in²

TOTALLY UNEXAMINED B, E, G = 2.81 in²

60° ONLY E, F, G = 1.53 in²

45° AND 60° A, D, F, E = 11.49 in²

TOTALLY UNEXAMINED VOLUME = 17.97%
OF THE IWB 2500-7b REQUIREMENT.

EXAMINATION PERFORMED FROM ONE SIDE
OF WELD ONLY IN ACCORDANCE WITH
SECTION V, ARTICLE 4, PARAGRAPH T-441.4.4.

TOTALLY UNELAMINATED A, E, G = 8.24 in²

45° AND 60° B, C, D, F, E = 45.62 in²

EXAMINATION PERFORMED FROM ONE SIDE
OF WELD ONLY IN ACCORDANCE WITH
SECTION V, ARTICLE 4, PARAGRAPH T-441.4.4.

FIGURE 11

TYPE "F" 6.250" OD NOM.

EXAM AREA A, B, C, D = 15.83 in²

TOTALLY UNEXAMINED B, E, G = 2.61 in²

60° ONLY E, F, G = 1.09 in²

45° AND 60° A, D, F, E = 12.13 in²

TOTALLY UNEXAMINED VOLUME = 16.49%
OF THE IMB 2500-7b REQUIREMENT.

EXAMINATION PERFORMED FROM ONE SIDE
OF WELD ONLY IN ACCORDANCE WITH
SECTION V, ARTICLE 4, PARAGRAPH T-441.4.4.

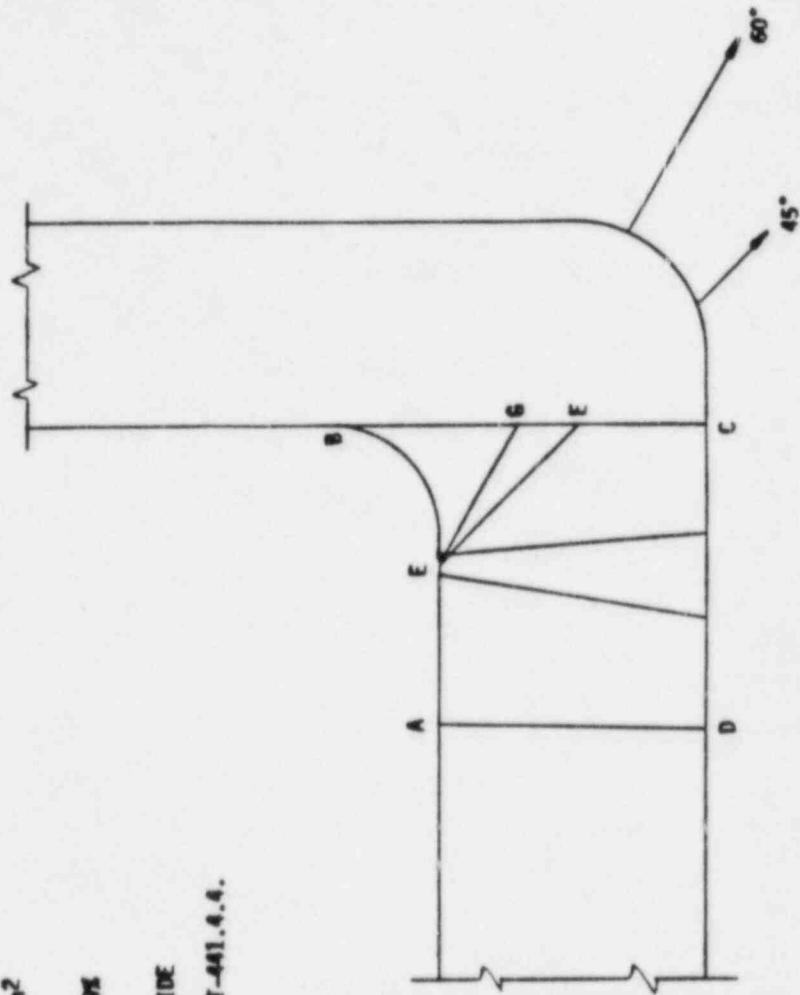


FIGURE 12





Attachment 4

Safety Impact Summary, Rev. 1

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ATTACHMENT 4

Limerick Generating Station, Unit 1
Safety Impact Summary, Rev. 1



1. RHR system weld/bolted connection outside containment, downstream of pump discharge check valves: During normal plant power operation, weld is unpressurized or slightly pressurized by keep-full systems. Significant leakage may affect pressure boundary of one RHR loop. Significant leakage is detected by leak detection systems or loss of system function. If leak is within the shutdown cooling loop the plant can be safely shut down using the main condenser and the unaffected RHR loop. 
2. Reactor coolant pressure boundary weld (RCPB): Weld is normally pressurized during power operation. Inboard containment isolation (or RCPB) valve performs RCPB isolation function. Significant RCPB leakage is detected by leak detection systems. The plant can be safely shut down using unaffected systems. 
3. RHR shutdown cooling suction line weld between normally closed valves: During normal plant operation, significant leakage is detected by leak detection systems. The plant can be safely shut down using the main condenser and the alternate shutdown cooling method.
4. RCPB weld between the RPV nozzle and the inboard isolation valve: Weld cannot be isolated. RCPB leak detection systems detect significant leakage. Plant technical specifications require plant shutdown when significant unidentified leakage occurs. The plant can be safely shut down using the normal shutdown methods. 
5. Suppression pool boundary weld: During normal plant and system operation, weld is pressurized with less than 30 feet of hydrostatic head. Weld cannot be isolated. Significant leakage is detected by leak detection systems. Several means of providing makeup water to the suppression pool are available. Pump compartments adjacent to the suppression pool are watertight. If leak affects one loop of RHR, the plant can be safely shut down using the main condenser and the unaffected RHR loop.
6. Containment atmosphere boundary weld: Weld is not pressurized during normal plant operation. Normal plant operation is not affected by leakage. Leakage will be detected during containment local or integrated leak rate tests. The plant can be safely shut down using the normal shutdown methods.
7. System boundary weld: Weld is not normally pressurized during plant power operation. During normal system operation, significant leakage is detected by leak detection systems. The plant can be safely shut down using the normal shutdown methods. 

Limerick Generating Station, Unit 1
Safety Impact Summary, Rev. 1

8. HPCI, RCIC and RWCU system welds outside containment: During plant power operation, significant leakage from lines which are pressurized with steam or hot water is detected and automatically isolated by leak detection systems. None of these systems are required for normal plant shutdown. Plant can be safely shut down using normal shutdown methods.
9. Feedwater system weld inside containment: Significant leakage is detected by leak detection systems. Leak can be isolated by remote actuation of valve HV41-F011A or B. Plant can be safely shut down using normal shutdown methods.
10. Reactor Recirculation weld: Significant leakage is detected by leak detection systems. Leak can be isolated by remote actuation of valve HV43-F023 & HV43-F031. Plant can be safely shut down using normal shutdown methods.
11. RHR, HPCI, RCIC and Core Spray system welds between the pump suction containment isolation valve and pump discharge check valve: During plant power operation, weld is slightly pressurized by the hydrostatic head of the suppression pool or condensate storage tank. Significant leakage is detected by leak detection systems. If the leak is within an RHR shutdown cooling loop the plant can be safely shutdown using the main condenser and the unaffected RHR loop.
12. Feedwater system weld outside containment: Weld is pressurized during plant power operation. Leak detection systems detect significant leakage. Containment isolation occurs automatically upon loss of feedwater flow. Other systems are available to provide makeup water to the RPV during plant shutdown.
13. Main steam system weld outside containment: Weld is pressurized during plant power operation. Significant leakage is detected by leak detection systems and automatically isolated. The plant can be safely shut down by depressurizing via the suppression pool and removing heat via the RHR system.
14. Core spray system weld outside containment: During plant power operation, weld is slightly pressurized by hydrostatic head or keep-full systems. Leak detection systems detect significant leakage. The plant can be safely shut down using normal shutdown methods.



Limerick Generating Station, Unit 1
Safety Impact Summary, Rev. 1

15. Main steam system weld inside the turbine enclosure: Weld is pressurized during plant power operation. If leak is not large enough to be detected and automatically isolated as per Category 13, leakage would be detected by other methods (e.g. area and stack radiation monitors) and manually isolated. The plant can be safely shut down by depressurizing via the suppression pool and removing heat via the RHR system.
16. RHR system, vacuum relief line weld outside containment: Weld is not pressurized during normal plant or RHR system operation. Plant can be safely shut down using normal shutdown methods.
17. RHR system, pressure relief line weld/bolted connection outside containment: Weld/bolted connection is not pressurized during normal plant or RHR system operation. The plant can be safely shut down using the normal shutdown methods. 
18. RHR system, RPV head spray weld inside containment between normally closed valves: Weld is not pressurized during plant power operation. Significant leakage is detected by leak detection systems. The plant can be safely shut down using the normal shutdown methods.
19. CRD system, scram discharge piping weld outside containment. Weld is not pressurized during normal plant operation. Leakage is detected during system leakage tests. The plant can be safely shut down using normal shutdown methods. 

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