



Consumers  
Power  
Company

Stephen H. Howell  
Senior Vice President

General Offices: 1945 West Farnell Road, Jackson, Michigan 49201 • (517) 788-0453

September 10, 1979  
Howe-246-79

Mr J G Keppler, Regional Director  
Office of Inspection and Enforcement  
Region III  
US Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

MIDLAND NUCLEAR PLANT  
UNIT NO 1, DOCKET NO 50-329  
UNIT NO 2, DOCKET NO 50-330  
COMPONENT QUALIFICATION TEST DOCUMENTATION RE-REVIEW

Reference: S H Howell letters to J G Keppler; Midland Nuclear Plant;  
Unit No 1, Docket No 50-329; Unit No 2, Docket No 50-330;  
Component Qualification Test Documentation Re-Review;

- 1) Serial Howe-252-78, dated November 20, 1978
- 2) Serial Howe-17-79, dated January 17, 1979
- 3) Serial Howe-79-79, dated March 9, 1979
- 4) Serial Howe-133-79, dated May 4, 1979
- 5) Serial Howe-193-79, dated July 6, 1979

The referenced letters were interim 50.55(e) reports as is this letter.

The B&W detailed re-review of qualification documentation, consisting of comparison of the conditions the equipment was qualified to versus the postulated design basis accident conditions as defined in the FSAR, is now scheduled for completion in November, 1979.

As of August 15, 1979, qualification has been completed on 15 of the Bechtel Purchase Orders for safety grade equipment. For the qualification to be considered complete, any questions resulting from the re-review must be resolved and all required qualification documentation must have been received and approved by Bechtel. The enclosure provides the latest status of the Bechtel qualification re-review effort.

Beyond the previously identified Foxboro Model E10 transmitters, no other equipment has been determined not to be capable of meeting its qualification requirements.

Bois  
950006

7909140 443 S

QUALIFICATION TEST STATUS REPORT

Revision 9

8/15/79

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer  | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference   | Qualification<br>Procedure   | Qualification<br>Results                                    | Status  |
|---|---|---|--|--|---|---|
| A-15,<br>Rev 6<br>(8/23/76)                     | Decontamina-<br>tive surfacer<br>(Ameron)                         | Seismic-none*<br><br>Environmental-<br>none*  | Not applicable   9<br><br>Subparagraphs 3.0<br>(Specification G-23 and<br>ANSI N101.4), 5.1<br>(ANSI N101.2), and<br>10.0 (inspection and<br>tests)  | Not required   9   | Not required   9  | Start Ship:<br>shipped to<br>field<br>Rerev: Not<br>required                            |
| A-41/A-41,<br>Rev 4<br>(4/12/77)                | Field priming<br>and/or top<br>coating of<br>of steel<br>surfaces | Seismic-none*<br><br>Environmental-none*  | Not applicable   9<br><br>Subparagraph 3.2<br>(ANSI N101.2 and<br>N101.4)  | Not required   9   | Not required   9  | Start Ship:<br>shipped<br>Rerev: Not<br>required. This<br>order handled<br>by the field |
| A-45/A-45,<br>Rev 2<br>(11/4/76)                | DBA environ-<br>mental testing<br>(ORNL)                          | Seismic-none*<br><br>Environmental-none*  | Not applicable   9<br><br>Subparagraph 3.0<br>test procedures,<br>ANSI N101.2)   | Not required   9<br><br>Submittal<br>expected by<br>3/31/79                        | Not required   9<br><br>Submittal<br>expected by<br>8/31/79 | Start Ship:<br>NA<br>Rerev: Not<br>required   |
| C-018/C-18,<br>Rev 6<br>(1/25/75)               | Field erected<br>tanks (Graver<br>Tank)                           | Seismic-none*<br><br>Environmental-<br>none*  | Subparagraphs 5.1.3<br>(ASME Code, Sec-<br>tion III, Subsection NC),<br>5.3.A; Appendix A,<br>ppg. 11, 12; Appendix F,<br>Paragraph 2.3<br>(design requirements);<br>Article 4.0 (ASME Code,<br>Section III, Subsection<br>NC)<br><br>Appendix F. Article<br>3.0 | C-18-131-3<br>6/8/79<br>Level 3   9<br><br>See FSAR<br>Table 3.11-4<br>Test 16   9 | C-18-131-3,<br>6/8/79<br>Level 3   9                        | Start Ship:<br>9/13/78A<br>Rerev: Not<br>required                                       |

950007

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer                 | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference   | Qualification<br>Procedure                                    | Qualification<br>Results                                      | Status  |
|---|--|---|--|---|---|---|
| C-024<br>Rev 3<br>(5/7/76)                      | Service water<br>sluice gates<br>(Armco) | Seismic-<br>IEEE Std 344-75*  | Appendix A (G-30, Rev 1)   | C-24-42-3<br>2/13/77<br>Level 1<br>(gate assembly)            | C-24-42-3<br>2/13/77<br>Level 1<br>(gate<br>assembly)         | Start Ship:<br>12/15/78A<br>Rerev: Not<br>required.   |
|   |  |   |  | C-24-84-1<br>5/2/78<br>Level 2<br>(floor stand)               | C-24-84-1<br>5/2/78<br>Level 2<br>(floor stand)               |   |
|   |  | Environmental-<br>none*   | Appendix A (temperature<br>and water chemistry)  |   |   |   |
| C-042/C-42,<br>Rev 2<br>(6/9/78)                | New and spent<br>fuel racks<br>(Wachter) | Seismic-none*   9   | Subparagraphs 1.1.6,<br>3.1.2, 3.1.4, 4.2.4,<br>5.2.10, 5.3.10,<br>5.3.12, 9.2; Appendix B,<br>Article 2.2 (IEEE<br>Std 344-75)<br>G-321-D 7.0-PAR | C-42-53-1<br>6/27/79<br>in review   9<br>(new fuel<br>racks)  | C-42-53-1<br>6/27/79<br>in review   9<br>(new fuel<br>racks)  | Start Ship:<br>9/14/79F   9<br>Rerev: Not<br>required |
|   |  |   |  | C-42-31-3<br>7/9/79<br>in review   9<br>(spent fuel<br>racks) | C-42-31-3<br>7/9/79<br>in review   9<br>(spent fuel<br>racks) |   |
|   |  | Environmental-<br>none*   | Article 6.2, Appendix C<br>(criticality and thermal-<br>hydraulic criteria -<br>spent fuel racks only)   | C-42-29-1<br>4/2/79<br>Level 1   9<br>(t-h analysis)          | C-42-29-1<br>4/2/79<br>Level 1   9<br>(t-h analysis)          |   |
|   |  |   |  | C-42-6-2<br>4/12/79<br>Level 1<br>(criticality<br>analysis)   | C-42-6-2<br>4/12/79<br>Level 1<br>(criticality<br>analysis)   |   |

800008

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>                           | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>  | <u>Qualification<br/>Procedure</u>                | <u>Qualification<br/>Results</u>                  | <u>Status</u>  |
|---|--|--|---|---|---|--|
| C-044/C-44,<br>Rev 3<br>(8/9/77)                          | Fuel pool<br>gates (W.J.<br>Woolley)                       | Seismic-<br>IEEE Std 344-75*   | Paragraphs 2.2, 2.3   9<br>(IEEE Std 344-75), 5.4,<br>5.4.2 (G-7, Rev 5),<br>5.5.3, 5.5.4, 5.6;<br>Appendix D   9 | C-44-24-1,<br>7/27/78,<br>Level 1                 | C-44-24-1,<br>7/27/78,<br>Level 1                 | Start Ship:<br>5/1/79A<br>Rerev:<br>Inprocess                  |
|   |  | Environmental-<br>none*  | Articles<br>5.2 (rad<br>doses), 5.3.2   | C-44-25-1,<br>7/27/78,<br>Level 1                 | C-44-25-1,<br>7/27/78,<br>Level 1                 |  |
| C-046/C-46,<br>Rev 6<br>(8/8/78)                          | Fuel transfer<br>tube (Pathway-<br>Bellows)                | Seismic-none*  | Article 5.1.1   | Submittal<br>expected by   9<br>2/1/80            | Submittal<br>expected by   9<br>2/1/80            | Start ship:<br>3/30/79A  |
|   |  | Environmental-<br>none*  | Art cle 4.3 (rad<br>doses)  | Submittal<br>expected by   9<br>2/1/80<br>(seals) | Submittal<br>expected by   9<br>2/1/80<br>(seals) |  |
| C-050B/C-50,<br>Rev 13<br>(6/5/69)                        | Reactor<br>building locks<br>and hatches<br>(W.J. Woolley) | Seismic-none*  | Article 7.4   | C-50B-12-7,<br>4/13/79,<br>Level 1                | C-50B-12-7,<br>4/13/79,<br>Level 1                | Start Ship:<br>10/20/78A<br>Rerev: In-<br>process.<br>NCR 1746 |
|   |  |  |   | C-50B-13-8,<br>12/4/78,<br>Level 1                | C-50B-13-8,<br>12/4/78,<br>Level 1                |  |
|   |  |  |   | C-50B-17-13,<br>3/13/79,<br>Level 1               | C-50B-17-13,<br>3/13/79,<br>Level 1               |  |
|   |  |  |   | C-50B-18-10,<br>3/13/79,<br>Level 1               | C-50B-18-10,<br>3/13/79,<br>Level 1               |  |
|   |  |  |   | C-50B-138-6,<br>12/4/78,<br>Level 1               | C-50B-138-6,<br>12/4/78,<br>Level 1               |  |
|   |  |  |   | C-50B-141-4,<br>12/4/78,<br>Level 1               | C-50B-141-4,<br>12/4/78,<br>Level 1               |  |

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>                                 | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>   | <u>Qualification<br/>Results</u>    | <u>Status</u>   |
|---|--|--|--|--|-------------------------------------|---|
|   |  | Environmental-<br>none*  | Article 7.4 (design<br>requirements)   |  |                                     |   |
| C-70/C-70,<br>Rev 3<br>(10/31/74)                         | Hydraulic<br>shock sup-<br>pressors<br>(ITT Grinnell)            | Seismic-none*  | Articles 4.2, 9.1<br>(ASME Code, Section III,<br>Subsection NF, 1974)                            | C-70-114-3,<br>5/4/78,<br>Level 1  | C-70-114-3,<br>5/4/78,<br>Level 1   | Start Ship:<br>10/1/78A<br>Rerev: In-<br>process.<br>NCR 1747   |
|   |  |  |  | C-70-205-2,<br>12/19/78,<br>Level 1  | C-70-205-2,<br>12/19/78,<br>Level 1 | Per Telecom<br>10/3/78,<br>standards<br>updated for<br>revisions<br>by ITT  |
|   |  |  |  | C-70-328-2<br>1/24/79,<br>Level 3  | C-70-328-2,<br>1/24/79,<br>Level 3  |   |
|   |  | Environmental-<br>none*  | Article 5.0 (environ-<br>mental conditions)<br>G-321-D 26.0-P&R<br>(performance tests)           | C-70-333-2,<br>4/3/79,<br>Level 1  |                                     | Hydro test<br>submitted<br>during delivery<br>of snubber.<br>Report on seal<br>life to be<br>submitted.   |
|   |  |  |  | C-70-332-3,<br>4/26/79<br>Level 1  |                                     |   |
| E-6/E-6,<br>Rev 7<br>(10/2/74)                            | 480V load<br>center unit<br>substations<br>(General<br>Electric) | Seismic-<br>IEEE Std 344-71*<br>IEEE Std 344-75**  | Articles 4.1 (IEEE Std)<br>5.6 (G-7, Rev 4)<br>G-321-D 7.0-P&NR                                  | E-6-35-1,<br>11/9/77,<br>acceptable<br>(Low voltage<br>switchgear-<br>IEEE Std 344-75) | E-6-53-1,<br>1/4/76,<br>acceptable  | Start Ship:<br>2/7/77A<br>Rerev: In-<br>process.<br>NCR 1748  |
|   |  |  |  | E-6-80-1,<br>10/5/77,<br>acceptable<br>(Transformers-<br>IEEE Std 344-<br>75)          | E-6-81-2,<br>3/14/79,<br>Level 3    | Letter to vendor<br>6/28/79 asking<br>for response to our<br>letter (3/19/79)<br>regarding docu-<br>mentation verifying<br>compliance for<br>qualification. |
|   |  | Environmental-<br>IEEE Std 323-74*   | Paragraphs 4.1, 8.1.5<br>(ANSI C37.20, Section<br>8-2.2.2, temperature<br>and water tight tests) | See FSAR<br>Table 3.11-4<br>Test 18.   |                                     | IEEE Std 323-71<br>not part of<br>contract  |

950010

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer                    | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference  | Qualification<br>Procedure                            | Qualification<br>Results          | Status  |
|---|---|---|---|---|-----------------------------------|---|
| E-7/E-7,<br>Rev 6<br>(6/14/76)                  | 460V motor<br>control<br>centers<br>(Gould) | Seismic-<br>IEEE Std 344-75*/**   | Article 4.0 and<br>Appendix A, Paragraph<br>1.4 (IEEE Std; G-7,<br>Rev 4; G-29,<br>Rev 2; and G-30, Rev 1.);<br>G-29, Article 1.0<br>(IEEE Std 344-75);<br>G-30, Article 1.0<br>(IEEE Std 344-75)<br>G-321-D 7.0-PANR | E-7-58-9,<br>7/13/79<br>Level 2                       | E-7-58-9,<br>7/13/79<br>Level 2   | Start Ship:<br>12/1/77A<br>Rerev:<br>Inprocess<br>NCR 1749  |
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Article 4.0, 8.4 (IEEE<br>Std 323-74, G-28, Rev 2,<br>Paragraph 1.6.1 (IEEE<br>Std 323-74), G-30<br>Rev 1, Paragraph 1.6.1<br>(IEEE Std 323-74)<br>G-321-D 26.1-PANR<br>(test results)                                | E-7-101-1,<br>10/7/77,<br>acceptable                  | E-7-129-3,<br>7/13/79,<br>Level 3 |   |
| E-11/E-11,<br>Rev 8<br>(9/27/74)                | Battery<br>chargers<br>(SCI)                | Seismic-<br>IEEE Std 344-71*<br>IEEE Std 344-75**                                     | Paragraphs 4.1, 5.3<br>(IEEE Std and G-7,<br>Rev 4)<br>G-321-D 7.0-PANR   | E-11-7-2,<br>7/18/77,<br>Level 1 (IEEE<br>Std 344-75) | E-11-18-1,<br>2/22/78,<br>Level 1 | Start Ship:<br>1/6/78A<br>Rerev:<br>Complete<br>NCR 1750  |
|   |   | Environmental-<br>IEEE Std 323-74*  | Subparagraph 6.1.3,<br>(temperature<br>requirements)  | E-11-20-1,<br>3/14/79,<br>Level 1                     | E-11-20-1,<br>3/14/79,<br>Level 1 |   |
|   |   |   |   | See FSAR<br>Table 3.11-4<br>Test 18                   |                                   | IEEE Std 323-71<br>not part of<br>contract;<br>letter to<br>vendor<br>7/30/79 asking<br>for documentation<br>verifying com-<br>pliance to<br>IPCEA S-71-402 |
| E-12/E-12,<br>Rev 5<br>(8/25/76)                | Station<br>batteries<br>(Exide)             | Seismic-<br>IEEE Std 344-75*/**   | Paragraph 10.1 (IEEE<br>Std 344 and G-7,<br>Rev 5); G-7, Paragraph<br>2.2 (IEEE Std 344-75)<br>G-321-D 7.0-PANR   | E-12-38-4,<br>7/13/79,<br>Level 3                     |                                   | Start Ship:<br>11/6/78A<br>Rerev: Not<br>required   |

950011

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer                            | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference                                     | Qualification<br>Procedure                                   | Qualification<br>Results          | Status   |
|---|---|---|--|--|-----------------------------------|--|
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Article 10.4 (IEEE<br>Std 323)   | E-12-38-4,<br>4/13/79<br>Level 3                             | Submittal<br>expected by<br>9/79  |  |
| E-13/E-13,<br>Rev 7<br>(9/11/74)                | DC distribu-<br>tion centers<br>(Westing-<br>house) | Seismic-<br>IEEE Std 344-71*/**   | Articles 4.0, 5.3<br>(G-7, Rev 4)<br>G-321-D 7.0-PAR<br>(certification only) | E-13-25-1,<br>6/11/77,<br>acceptable<br>(IEEE Std<br>344-75) | E-13-29-3,<br>9/13/78,<br>Level 1 | Start Ship:<br>9/27/78A<br>Rerev:<br>Complete<br>(seismic)<br>Inprocess<br>(environmental)<br>NCR 1751   |
|   |   | Environmental-<br>IEEE Std 323-74*  | Section 7.2 (ANSI<br>C 37.90) Section<br>6.6.2 (IPCEA<br>S-61-402)           | See FSAR<br>Table 3.11-4<br>Test 18                          |                                   | IEEE Std 323-71<br>not part of<br>contract;<br>letter to vendor<br>2/27/79 requesting<br>ANSI and IPCEA<br>certification;<br>Response 3/13/79<br>stating that<br>ANSI C37.90 is<br>not a requirement<br>for this type of<br>relay. SDDR<br>requested by<br>letter to vendor<br>6/4/79. |
| E-19/E-19,<br>Rev 6<br>(10/11/74)               | Preferred ac<br>power supplies<br>(SCI)             | Seismic-<br>IEEE Std 344-71*<br>IEEE Std 344-75**                                     | Paragraphs 4.1 (IEEE<br>Std), 5.3 (G-7, Rev 4)<br>G-321-D 7.0-PANR           | E-19-17-3,<br>9/19/77,<br>Level 1                            | E-19-32-1,<br>3/16/78,<br>Level 1 | Start Ship:<br>1/6/78A<br>Rerev:<br>Complete.<br>NCR 1752<br>Dispositioned<br>7/30/79.   |

950012

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u> | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u> | <u>Qualification<br/>Procedure</u>  | <u>Qualification<br/>Results</u> | <u>Status</u>  |
|---|----------------------------------|--|--|-------------------------------------|----------------------------------|--|
|   |                                  | Environmental-<br>IEEE Std 323-74*   | Paragraph 4.1<br>(IEEE Standard)                 | See FSAR<br>Table 3.11-4<br>Test 18 | 9                                | IEEE Std 323-71<br>not part of<br>contract;<br>letter to<br>vendor<br>3/5/79<br>requesting<br>verification of<br>compliance<br>with IEEE Std<br>323-71 and<br>IPCEA S-61-402;<br>Response 3/20/79<br>stating that unable<br>to provide com-<br>pliance to IEEE<br>Std 323-71;<br>letter to vendor<br>clarifying request<br>for IPCEA com-<br>pliance; reply<br>from vendor 7/17/79<br>stating compliance<br>to IPCEA S-61-402. |

950013



| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>              | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>  | <u>Qualification<br/>Procedure</u>  | <u>Qualification<br/>Results</u>   | <u>Status</u>  |
|---|---|--|---|---|--|--|
| E-20/E-20,<br>Rev 5<br>(8/6/74)                           | Cable pene-<br>trations<br>(Amphenol<br>Sams) | Seismic-<br>IEEE Std 344-75*/**  | Subparagraphs 4.1.12<br>(IEEE Std 344) 5.5<br>(G-6, Rev 4)<br>G-321-D 7.0-PAR   | E-20-114-4,<br>10/19/77,<br>Level 1.<br>(IEEE Std<br>344-75)   9  | Seismic<br>results<br>unacceptable.<br>E-20-163-2,<br>1/22/79,<br>Level 3  | Start Ship:<br>Flanges:<br>7/28/76A<br>Assemblies:<br>2/10/78A<br>Rerev:<br>Complete.<br>Meeting held<br>to resolve problems<br>(refer to Meeting<br>Notes Numbers 438 & 9<br>439 dated 3/14/79<br>and 3/15/79). |
|   |   | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 317-72*   | Subparagraph 4.1.11<br>(IEEE Std 323)<br>Subparagraphs 4.1.10,<br>6.5.1, 7.1.1, 7.1.2,<br>7.2.1, 7.3.1 (IEEE<br>Std 317-72) | E-20-114-4   9<br>10/19/77<br>Level 1<br>(IEEE Std 323-74,<br>317-72)<br><br>Supplementary<br>environmental<br>Test Proce-<br>dure E-20-162-4,<br>4/12/79,<br>Level 1 | E-20-158-1<br>submitted<br>for infor-<br>mation only<br>(4/18/78).<br><br>Supplementary<br>Environmental<br>Test Results<br>E-20-162-4,<br>4/12/79,<br>Level 1<br><br>E-20-166-1,<br>4/12/79,<br>Level 1<br><br>E-20-167-1,<br>4/12/79,<br>Level 2<br><br>E-20-168-1,<br>4/12/79,<br>Level 2<br><br>E-20-169-1,<br>4/12/79,<br>Level 1 |  |

950014

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer                        | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference   | Qualification<br>Procedure  | Qualification<br>Results  | Status  |
|---|---|---|--|---|---|---|
| E-21/E-21,<br>Rev 7<br>(6/20/74)                | 5,000V and<br>8,000V<br>power cable<br>(Kerite) | Seismic-<br>none*<br><br>Environmental-<br>IEEE Std 323-74*<br>IEEE Std 383-74*       | Not applicable   9<br><br>Paragraph 5.4 (service<br>design requirements), no<br>reference to IEEE<br>standards   | Not required   9<br><br>E-21-8-1,<br>8/5/76,<br>Level 1   | Not required   9<br><br>E-21-8-1,<br>8/5/76,<br>Level 1   | Start Ship:<br>9/22/76A<br>Rerev:<br>Complete.<br>NCR 1753:<br>Dispositioned<br>2/13/79.  |
| E-22/E-22,<br>Rev 3<br>(4/2/76)                 | 600V power<br>cable (Essex)                     | Seismic-<br>none*<br><br>Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 383-74*    | Not applicable   9<br><br>Appendix A (engineering<br>data), no reference to<br>IEEE Standards<br>Subparagraphs 8.2.3, 8.3,<br>and 12.3.3 (IEEE Std<br>383-74)<br>G-321-D 26.2-PANR | Not required   9<br><br>E-22-44-1<br>7/10/79<br>Level 2   9<br><br>E-22-6-1,<br>7/17/76,<br>Level 1   9<br><br>E-22-8<br>through<br>E-22-31<br>7/18/79<br>Level 5 | Not required   9<br><br>E-22-44-1<br>7/10/79<br>Level 2<br><br>E-22-6-1,<br>7/17/76,<br>Level 1   9<br><br>E-22-8<br>through<br>E-22-31<br>7/18/79<br>Level 5 | Start Ship:<br>2/1/77A<br>Rerev:<br>Complete.<br>NCR 1754<br>Dispositioned<br>7/18/79   9 |
| E-26/E-26,<br>Rev 4<br>(10/29/76)               | 600V control<br>cable<br>(Rockbestos)           | Seismic-<br>none*<br><br>Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 383-74*    | Not applicable   9<br><br>Article 4.0 (IEEE<br>Std 323-74)<br>Article 4.0, 7.3, 11.3<br>(IEEE Std 383-74)<br>G-321-D 26.2-PANR   | Not required   9<br><br>E-26-27-2,<br>2/12/79,<br>Level 1   | Not required   9<br><br>E-26-27-2,<br>2/12/79,<br>Level 1   | Start Ship:<br>7/26/77A<br>Rerev:<br>Complete.<br>NCR 1755:<br>Dispositioned<br>2/13/79.  |

950015

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer                            | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference   | Qualification<br>Procedure              | Qualification<br>Results                | Status  |
|---|---|---|--|---|---|---|
| E-45/E-45,<br>Rev 3<br>(9/26/77)                | a. 480Vac dis-<br>tribution<br>panels<br>(Square D) | Seismic-<br>IEEE Std 344-75*/**<br>9  | Articles 4.0, 5.3<br>(IEEE Std 344-75 and<br>G-7, Rev 5); G-7, Para-<br>graph 2.2 (IEEE Std 344-<br>75); G-30, Rev 1,<br>Paragraphs 1.1.1, 1.6,<br>1.7 (IEEE Std 344-75)<br>G-321-D 7.0-PAR<br>(prototype test only) | E-45-22-3,<br>6/30/79<br>Level 2   9    | E-45-22-3,<br>6/30/79<br>Level 2   9    | Start Ship:<br>11/10/78A<br>Rerev: In-<br>process.<br>NCR 1756. |
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Articles 4.0, 5.2, 12.2.1<br>(IEEE Std 323-74); G-30,<br>Rev 1, 1.6 (IEEE<br>Std 323-74)   | E-45-10-3,<br>6/12/78,<br>Level 1       | E-45-10-3,<br>6/12/78,<br>Level 1       |   |
|   | b. 120Vac<br>preferred<br>panels                    | Seismic-<br>IEEE Std 344-75*/**   | Articles 4.0, 5.3<br>(IEEE Std 344-75 and<br>G-7, Rev 5); G-7, Para-<br>graph 2.2 (IEEE Std<br>344-75); G-30, Rev 1,<br>Paragraphs 1.1.1, 1.6,<br>1.7 (IEEE Std 344-75)<br>G-321-D 7.0-PAR<br>(prototype test only)  | E-45-54-3,<br>4/24/79,<br>Level 1       | E-45-54-3,<br>4/24/79,<br>Level 1       | Start Ship:<br>1/12/79A   |
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Articles 4.0, 5.2, 12.2.1<br>(IEEE Std 323-74); G-30,<br>Rev 1, 1.6 (IEEE<br>Std 323-74)   | E-45-51-2,<br>2/1/79,<br>Level 1        | E-45-51-2,<br>2/1/79,<br>Level 1        |   |
|   | c. 120Vac<br>control and<br>instrument<br>panels    | Seismic-<br>IEEE Std 344-75*/**   | Articles 4.0, 5.3<br>(IEEE Std 344-75 and<br>G-7, Rev 5); G-7, Para-<br>graph 2.2 (IEEE Std<br>344-75); G-30, Rev 1,<br>Paragraphs 1.1.1, 1.6,<br>1.7 (IEEE Std 344-75)<br>G-321-D 7.0-PAR<br>(prototype test only)  | E-45-55-3,<br>4/24/79,<br>Level 1       | E-45-55-3,<br>4/24/79,<br>Level 1       | Start ship:<br>12/21/78A  |
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Articles 4.0, 5.2, 12.2.1<br>(IEEE Std 323-74); G-30,<br>Rev 1, 1.6 (IEEE<br>Std 323-74)   | E-45-63-2,<br>6/13/79,<br>in review   9 | E-45-63-2,<br>6/13/79,<br>in review   9 |   |

950016

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer   | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference  | Qualification<br>Procedure         | Qualification<br>Results           | Status   |
|---|--|---|---|------------------------------------|------------------------------------|--|
|   | d. 125Vdc<br>distribution<br>panels                                | Seismic-<br>IEEE Std 344-75*/**   | Articles 4.0, 5.3<br>(IEEE Std 344-75 and<br>G-7, Rev 5); G-7, Para-<br>graph 2.2 (IEEE 344-75);<br>G-30, Rev 1, Paragraphs<br>1.1.1, 1.6, 1.7 (IEEE<br>Std 344-75)<br>G-321-D 7.0-PAR<br>(prototype test only) | E-45-53-3,<br>4/24/79,<br>Level 1  | E-45-53-3,<br>4/24/79,<br>Level 1  | Start ship:<br>2/7/79A   |
|   |  | Environmental-<br>IEEE Std 323-74*/**   | Articles 4.0, 5.2, 12.2.1<br>(IEEE Std 323-74); G-30,<br>Rev 1, 1.6 (IEEE<br>Std 323-74)  | E-45-52-1,<br>11/30/78,<br>Level 1 | E-45-52-1,<br>11/30/78,<br>Level 1 |  |
| E-49/E-49,<br>Rev 3<br>(10/31/77)               | Station<br>battery<br>fused dis-<br>connect<br>switches<br>(Gould) | Seismic-<br>IEEE Std 344-75*/**   | Articles 4.0 (IEEE Std),<br>7.1.1 (IEEE Std 344-75),<br>7.1.2 (G-7, Rev 5)<br>G-321-D 7.0-PANR  | E-49-2-3,<br>9/26/78,<br>Level 1   | E-49-2-3,<br>9/26/78,<br>Level 1   | Start Ship:<br>5/26/78A<br>Rerev: in-<br>process.<br>NCR 1757  |
|   |  | Environmental-<br>IEEE Std 323-74*/**   | Articles 4.1 (IEEE Std),<br>7.2.1 (IEEE Std 323-74)<br>G-321-D 26.2-PANR  |                                    | E-49-7-2<br>2/1/79<br>in review    | Letter to vendor<br>6/14/79 requesting<br>reply to our<br>letter in regards<br>to humidity<br>requirement for<br>qualification |

950017

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer   | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference  | Qualification<br>Procedure  | Qualification<br>Results  | Status   |
|---|--|---|---|---|---|--|
| E-051B/E-051B,<br>Rev 1<br>(11/4/77)            | Instrument ac<br>power trans-<br>formers and<br>regulator<br>transformers<br>(SCI) | Seismic-<br>IEEE Std 344-75*/**   | Articles 4.0, 5.2, 11.2<br>(IEEE Std 344-75); G-7<br>Rev 5, Paragraph 2.2<br>(IEEE Std 344-75); G-30,<br>Rev 1, Paragraphs 1.11,<br>1.6, 1.7 (IEEE Std<br>344-75)<br>G-321-D 7.0-PANR               | E-51B-15-2,<br>11/6/78,<br>Level 1<br>(regulator<br>transformer)<br>To be resubmitted | Submittal<br>expected by 9<br>6/30/80                                   | Start Ship:<br>9/7/79F<br>Rerev: Not<br>required<br>New insulation<br>design. Qualifi-<br>cation to start<br>9/7/79. |
|   |  | Environmental<br>IEEE Std 323-74*/**  | Articles 4.0, 11.2<br>(IEEE Std 323-74)<br>G-321-D 26.2-PANR<br>(certified test reports<br>before shipment)   | E-51B-13-6,<br>6/5/79,<br>Level 1<br>(regulator<br>transformer)                       | Submittal<br>expected by 9<br>6/30/80                                   | 9  |
|   |  |   |   | Submittal<br>expected by 9<br>6/30/80<br>(instrument ac<br>power trans)               | Submittal<br>expected by 9<br>6/30/80<br>(instrument ac<br>power trans) | 9  |
|   |  |   |   | Submittal<br>expected by 9<br>6/30/80<br>(instrument<br>ac power trans)               | Submittal<br>expected by 9<br>6/30/80<br>(instrument<br>ac power trans) | 9  |
| E-56/E-56,<br>Rev 1<br>(6/22/78)                | Coax, triax,<br>and twinax<br>cable<br>(Rockbestos)                                | Seismic-<br>none*   | Not applicable  | 9 Not required  | 9 Not required  | 9 Start Ship:<br>9/30/79F<br>Rerev: Not<br>required  |
|   |  | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 383-74*                             | Articles 4.0, 10.5.5<br>(IEEE Std 323-74);<br>Appendix A (engineering<br>data)<br>Articles 4.0, 7.1, 7.3,<br>7.4, 10.5.4 (IEEE Std<br>383-74)<br>G-321-D 26.0-PANR<br>(approval before<br>shipment) | E-56-8-4,<br>7/2/79,<br>Level 2   | E-56-8-4,<br>7/2/79,<br>Level 2   | 9 Qualification of<br>unaged sample<br>being conducted<br>under E-60 test.   |

950018

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>                             | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>                         | <u>Qualification<br/>Results</u>                                   | <u>Status</u>   |
|---|--|--|--|--|--|---|
| E-060/E-60,<br>Rev 1<br>(8/17/78)                         | Instrument and<br>special pur-<br>pose cable<br>(Rockbestos) | Seismic-<br>none*  | Not applicable   | 9 Not required   | 9 Not required   | 9 Start Ship:<br>1/26/79A<br>Rerev: Not<br>required                                       |
|   |  | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 383-74*  | Articles 4.0, 11.5.5<br>(IEEE Std 323-74)<br>Appendix A (engineering<br>data)                            | E-60-21-3,<br>7/2/79,<br>Level 2                           | 9 Test in<br>progress<br>9/28/79F                                  | 9   |
| E-205/E-205,<br>Rev 8<br>(4/24/74)                        | Metalclad<br>switchgear<br>(ITE)                             | Seismic-<br>IEEE Std 344-71*/**  | Articles 4.0, 5.3<br>(G-7, Rev 4)<br>G-321-D 7.0-PANR  | Not required<br>by specification.<br>Test results only     | E-205-222-1,<br>6/7/76,<br>acceptable<br>(certifica-<br>tion only) | 9 Start Ship:<br>12/9/76A<br>Rerev:<br>Complete.<br>NCR 1758<br>Dispositioned<br>7/13/79. |
|   |  | Environmental-<br>IEEE Std 323-74*   | Article 4.1 (ANSI C37.09,<br>Section 4.15, require-<br>ments for temperature and<br>total expected life) | Not required<br>by specification.<br>Test results<br>only. | 9 E-205-467-1,<br>3/8/79,<br>Level 2<br>(certification<br>only)    | 9 See FSAR<br>Table 3.11-4<br>Test 18   |
|   |  |  |  |  | E-205-197-1<br>9/8/75<br>Level 1<br>(certification<br>only)        | 9   |
|   |  |  |  |  | E-205-239-1<br>3/15/77<br>acceptable<br>(certification<br>only)    | 9   |

950019

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>              | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>   | <u>Qualification<br/>Results</u>   | <u>Status</u>  |
|---|---|--|--|--|--|--|
| J-201/J-201,<br>Rev 5<br>(4/14/75)                        | Main control<br>boards<br>(Magnetics)         | Seismic-<br>IEEE Std 344-75*/**  | Paragraphs 1.5b,<br>2.1.1c, 2.1.5, 4.1.2,<br>13.0, Attachment 5,<br>Rev 1; Paragraphs<br>4.1.15, 13.1.1,<br>Attachment 5a, Para-<br>graphs 1.3, 2.0, 2.8,<br>Attachment 5b, 1.3,<br>2.0, 2.7, 5.0 (IEEE Std<br>344)<br>G-321-D 7.0-PAR<br>(procedures and reports) | J-201-286-1,<br>3/16/77,<br>acceptable<br><br>J-201-287-2<br>through 289-2,<br>and J-201-296-2<br>through 300-2,<br>8/10/78,<br>Level 1<br><br>J-201-318-2 and<br>321-2, 8/10/78,<br>Level 1<br><br>J-201-397-1,<br>2/28/78,<br>Level 1<br><br>J-201-410-1,<br>8/10/78,<br>Level 1 | J-201-287-2<br>through 289-2,<br>and J-201-296-2<br>through 300-2,<br>8/10/78,<br>Level 1<br><br>J-201-318-2 and<br>321-2, 8/10/78,<br>Level 1<br><br>J-201-397-1,<br>2/28/78,<br>Level 1<br><br>J-201-410-1,<br>8/10/78,<br>Level 1 | Start Ship:<br>8/19/77A<br>Rerev:<br>Inprocess.<br>NCR 1759  |
|   |   | Environmental-<br>IEEE Std 323-74*/**  | Subparagraph 4.1.13<br>(IEEE Std 323);<br>Article 5.0<br>(service conditions)<br>G-321-D 26.1-PAR<br>(test procedures)<br>G-321-D 26.2-PANR<br>(test report)   | See FSAR<br>Table 3.11-4,<br>Test 17   | 9  |  |
| J-202/J-202,<br>Rev 5<br>(12/20/77)                       | Auxiliary/<br>local control<br>boards (Harlo) | Seismic-<br>IEEE Std 344-75*/**  | Articles 2.2.1, 9.3.1,<br>9.3.2, (IEEE Std 344-75)   | J-202-79-1,<br>10/6/77,<br>acceptable  | J-202-79-1,<br>10/6/77,<br>acceptable  | Start Ship:<br>10/10/78A<br>Rerev:<br>Inprocess.<br>ICR 1760 |
|   |   | Environmental-<br>IEEE Std 323-74*/**  | Article 4.1<br>(service conditions)  | See FSAR<br>Table 3.11-4,<br>Test 17   | 9  |  |

950020

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer  | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments**                           | Specification<br>Qualification Reference  | Qualification<br>Procedure  | Qualification<br>Results               | Status  |
|---|---|---|---|---|--|---|
| J-204/J-204,<br>Rev 6<br>(5/3/74)               | Major<br>instrument<br>package<br>(Foxboro)                               | Seismic-<br>IEEE Std 344-71*/**<br>(instrument racks,<br>rack mounted<br>instrumentation<br>and power supplies) | Subparagraphs 4.1.3<br>(IEEE Std 344-71);<br>Subparagraph 5.1.2<br>(G-6, Rev 4 and<br>G-7, Rev 4); 6.1<br>G-321-D 7.0-PAR | J-204-33-2,<br>5/18/79<br>Level 2   | J-204-33-2,<br>5/18/79<br>Level 2      | Start Ship:<br>11/24/78A<br>Rerev: In-<br>Process.<br>NCR 1761.                           |
|   |   |   |   | J-204-189-1<br>6/27/77<br>information only<br>(rack mounted<br>modules - IEEE<br>Std 344-75)        |  |   |
|   |   |   |   | J-204-244-2<br>6/25/79<br>Level 3   | J-204-244-2,<br>6/25/79<br>acceptable  |   |
|   |   | IEEE Std 344-71*<br>IEEE Std 344-75**<br>(panel mounted<br>electronic<br>controllers)                           |   | J-204-147-1,<br>9/8/76,<br>acceptable   | J-204-147-1,<br>9/8/76,<br>acceptable  |   |
|   |   |   |   | J-204-176-1,<br>9/21/77,<br>acceptable  | J-204-176-1,<br>9/21/77,<br>acceptable |   |
|   |   |   |   | J-204-230-1,<br>4/18/78,<br>Level 2<br>(IEEE Std 344-75)  | Results<br>expected by<br>12/30/79     | Currently<br>being tested.  |
|   |   | Environmental-<br>IEEE Std 323-74*  | Subparagraph 4.1.2 and<br>6.1 (IEEE Std 323-71),<br>Subparagraph 5.1.1<br>(J-1564)  | J-204-189-1,<br>6/27/77,<br>information only,<br>(rack mounted<br>modules only-<br>IEEE Std 323-74) |  | See FSAR<br>Table 3.11-4<br>Test 17   |
|   |   | IEEE Std 383-74*  | Subparagraphs 4.1.6 and<br>7.2.7 (IEEE Std 383-74)<br>G-321-D 26.0-PANR<br>(test results)                                 |   |  | Certificate of<br>compliance<br>required. MR to be<br>revised to indicate<br>requirement. |
| J-207/J-207,<br>Rev 4<br>(3/11/77)              | Engineering<br>safety fea-<br>tures<br>actuation<br>system<br>(Vitro Lab) | Seismic-<br>IEEE Std 344-75*/**   | Section 2B<br>(IEEE Std 344-75)<br>Section E2<br>(G-7, Rev 5)<br>G-321-D 7.0-PAR  | J-207-16-3,<br>2/13/78,<br>Level 1  | J-207-85-3,<br>10/23/78,<br>Level 1    | Start Ship:<br>6/30/78A<br>Rerev:<br>Complete.<br>NCR 1762:<br>Dispositioned<br>5/4/79.   |



| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer   | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference   | Qualification<br>Procedure                                     | Qualification<br>Results             | Status   |
|---|--|---|--|--|--------------------------------------|--|
|   |  | Environmental-<br>IEEE Std 323-74*/**<br>IEEE 383-74*                                 | Section 2B, 5E1<br>(IEEE Std 323-74, 383-74)<br>Article 4.0<br>(radiation)<br>G-321-D 26.0-PAR   | J-207-18-2,<br>10/19/77,<br>Level 1<br>(service<br>conditions) | J-207-222-1,<br>10/19/78,<br>Level 1 | Certification<br>of compliance<br>to IEEE 383-74<br>shipped to<br>field with<br>ESFAS docu-<br>mentation<br>package.       |
|   |  |   |  | J-207-16-3,<br>2/13/78,<br>Level 1<br>(radiation)              | J-207-16-3,<br>2/13/78,<br>Level 1   |  |
| J-214/J-214,<br>Rev 1<br>(9/13/78)              | Seismic<br>instruments<br>(Terra<br>Technology)                              | Seismic-<br>IEEE Std 344-75*/**   | Paragraphs 2.2 (IEEE Std<br>344), 3.3.1<br>(IEEE Std 344-75),<br>Subparagraphs 4.1.2,<br>7.1.4 (G-6, Rev 5 and<br>G-7, Rev 5), and<br>Article 6.1<br>(design qualification)<br>Attachment M to MR,<br>Sh 2 | J-214-1-1,<br>2/5/79,<br>Level 2                               | J-214-1-1,<br>2/5/79,<br>Level 2     | Start Ship:<br>7/11/79A<br>Rerev: Not<br>required.<br>Reviewed by<br>civil and<br>found<br>acceptable.                     |
|   |  | Environmental-<br>none*   | Attachment M to MR<br>(J-1564, Rev 0)  | Not required   | Not required                         |  |
| J-229/J-563,<br>Rev 3<br>(2/14/77)              | Temperature<br>switches<br>(Thermowells)<br>(United<br>Electric<br>Controls) | Seismic-none*   | Attachment E to MR<br>(J-1564, Rev 4)<br>(J-1563-2, Rev 2)   | Not required   | Not required                         | Start Ship:<br>5/18/79<br>Rerev: Complete.<br>Considered<br>qualified by<br>virtue of<br>compliance to<br>ASME Section III |
|   |  | Environmental-<br>none*   | Attachment E to MR<br>(J-1564, Rev 4)  | Not required   | Not required                         |  |

250022

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer  | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference   | Qualification<br>Procedure | Qualification<br>Results | Status  |
|---|---|---|--|----------------------------|--------------------------|---|
| J-232/J-435,<br>Rev 3<br>(3/29/77)              | Orifice<br>plates for<br>nuclear<br>service<br>(Vickery-<br>Simms)                              | Seismic-none*   | Paragraphs 1.1.1,<br>(ASME Code, Section III,<br>Division 1, Classes 2<br>or 3)  | Not required               | Not required             | Start Ship:<br>8/1/78A<br>Rerev:<br>Complete.<br>Considered<br>qualified by<br>virtue of<br>compliance to<br>ASME Section III   |
|   |   | Environmental-<br>none*   | Attachment C to MR<br>(data sheets)  | Not required               | Not required             |   |
| J-233/J-563,<br>Rev 3<br>(11/24/76)             | Resistance<br>temperature<br>detector<br>assemblies<br>(Thermowells)<br>(Weed Instru-<br>ments) | Seismic-none*   | Paragraphs 1.1.1, 2.2,<br>Attachment E to MR<br>(J-1564, Rev 3)<br>(J-1563-2, Rev 0)   | Not required               | Not required             | Start Ship:<br>11/14/77A<br>Rerev:<br>Complete.<br>Considered<br>qualified by<br>virtue of<br>compliance to<br>ASME Section III |
|   |   | Environmental-<br>none*   | Attachment E to MR<br>(J-1563, Rev 0)  | Not required               | Not required             |   |
| J-241,<br>Rev 5<br>(9/6/79F)                    | Pressure<br>gages, nuclear<br>service<br>(field<br>purchase)<br>(issued for<br>bids)            | Seismic<br>IEEE 344-75*   | Paragraphs 2.2, 6.1,<br>and Attachment 4 to<br>MR (J-1564, Rev 1),<br>Attachment 7 to MR<br>(G-33(Q), Rev 7<br>G-321-D 7.0 FAR |                            |                          | Start Ship:<br>Field purchase<br>Rerev:<br>Complete.  |
|   |   | Environmental-<br>none*   | Paragraph 4.1 and<br>Attachment 4 to MR<br>(J-1564, Rev 1)   |                            |                          |   |
| J-242/J-425,<br>Rev 3<br>(4/29/77)              | Venturi tubes,<br>nuclear<br>service<br>(B.I.F.)  | Seismic-none*   | Appendix D, Article 2.4<br>of J-425, Rev 5   | Not required               | Not required             | Start Ship:<br>7/21/78A<br>Rerev:<br>Complete.<br>Considered<br>qualified by<br>virtue of<br>compliance to<br>ASME Section III  |

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u>                   | <u>Item and<br/>Manufacturer</u>  | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u>            | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>  | <u>Qualification<br/>Results</u>  | <u>Status</u>   |
|---|---|---|--|---|---|---|
|   |   | Environmental-<br>none*   | Appendix D, Article 3.0<br>of J-425, Rev 1 and<br>Attachment C to MR<br>(data sheets)                      | Not required  | Not required  |   |
| J-245/J-245<br>Rev 0<br>(3/15/79)   | Field<br>Transmitters<br>(Rosemount)                                    | Seismic-<br>IEEE Std 344-75*/**   9   | Paragraph 5.4.1a,<br>Appendix A  | J-245-14-1<br>J-245-16-1<br>6/22/79<br>Level 3   9  | J-245-14-1<br>J-245-16-1<br>6/22/79<br>Level 3   9  | Start Ship:<br>7/31/79A<br>Rerev:<br>Not required.   9  |
|   |   | Environmental-<br>IEEE Std 323-71**<br>IEEE Std 323-74*<br>(see response to<br>RG 1.89 FSAR<br>Appendix 3A) | Paragraph 5.3.2,<br>Attachment 9 to MR   | J-245-14-1<br>J-245-16-1<br>6/22/79<br>Level 3   9  | J-245-14-1<br>J-245-16-1<br>6/22/79<br>Level 3   9  |   |
| J-253/J-253,<br>Rev 3<br>(6/7/74)   | Atmospheric<br>steam<br>dump valves<br>(CCI)                            | Seismic-<br>IEEE Std 344-71*   9  | Paragraph 5.2<br>(seismic criteria)<br>G-321-D 7.0-PAR   | J-253-23-4,<br>7/28/76,<br>acceptable   | J-253-23-4,<br>7/28/76,<br>acceptable   | Start Ship:<br>12/1/77A<br>Rerev:<br>Complete   |
|   |   | Environmental-<br>none*   | Paragraph 5.1<br>(environmental<br>criteria)   | See FSAR<br>Table 3.11-4   9<br>Test 16   |   |   |
| J-255 A,<br>J-255, Rev 8<br>(7/8/74)<br>J-255B/<br>J-255, Rev 8<br>(7/9/74) | Nuclear<br>services<br>control<br>valves<br>(Vulcan (A)<br>and CCI (B)) | Seismic-<br>IEEE Std 344-71*   9  | Paragraph 5.3, 5.4<br>(seismic criteria);<br>G-9, 4.2 (IEEE Std 344);<br>7.1 (IEEE Std)<br>G-321-D 7.0-PAR | J-255A-19-2,<br>12/23/75,<br>Level 1   9<br>J-255A-53-3<br>7/24/79<br>in review   9<br>J-255B-25-2,<br>8/31/76,<br>acceptable | J-255A-19-2,<br>12/23/75,<br>Level 1   9<br>J-255A-53-3<br>7/24/79<br>in review   9<br>J-255B-25-2,<br>8/31/76,<br>acceptable | Start Ship:<br>6/5/78A<br>Rerev: In-<br>process.<br>NCR 1763<br>Start Ship:<br>8/1/76A<br>Rerev: In-<br>process |

950024

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>                                  | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>    | <u>Qualification<br/>Results</u>      | <u>Status</u>   |
|---|---|--|--|---------------------------------------|---------------------------------------|---|
|   |   | Environmental-<br>IEEE Std 323-74*   | Paragraph 5.2<br>(environmental criteria)<br>and Attachment F to J-255<br>(G-9, Rev 2)                 | Submittal<br>expected by 8/15/79      | J-255B-62-3,<br>4/21/79,<br>Level 3   | This report<br>covers Rotork<br>valve operators.<br>Test report from<br>Rotork to be<br>reviewed subject<br>to CCI clari-<br>fication and<br>verification of<br>Rotork model<br>numbers |
| J-256/J-603,<br>Rev 6<br>(7/16/76)                        | Nuclear<br>service<br>solenoid<br>valves<br>(Target Rock<br>Corp) | Seismic-<br>IEEE Std 344-75*/**  | Article 4.0 (IEEE Std<br>344); Appendix A<br>Article 2, Appendix I<br>(design limits<br>qualification) | J-256-45-5,<br>5/18/79,<br>Level 1    | J-256-45-5,<br>5/18/79,<br>Level 1    | Start Ship:<br>6/78A<br>Rerev: In-<br>process.<br>NCR 1764  |
|   |   |  |  | J-256-71-3<br>6/19/79,<br>Level 1     | J-256-71-3<br>6/19/79<br>Level 1      |   |
|   |   | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 382-72*/**                                     | Article 4.0<br>(IEEE Std 323);<br>Paragraph 5.1 and<br>Appendix J<br>(environmental criteria)          | J-256-42-1,<br>12/8/77,<br>acceptable | J-256-42-1,<br>12/8/77,<br>acceptable |   |
|   |   |  | Article 4.0<br>(IEEE Std 382);<br>Paragraph 5.1 and<br>Attachment G<br>(G-29, Rev 1)                   | J-256-42-1,<br>12/8/77,<br>acceptable | J-256-42-1,<br>12/8/77,<br>acceptable |   |

950025

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer   | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference  | Qualification<br>Procedure                                      | Qualification<br>Results  | Status   |
|---|--|---|---|---|---|--|
| J-258/J-605,<br>Rev 8<br>(7/29/75)              | Nuclear<br>service<br>butterfly<br>control<br>valves<br>(Fisher<br>Controls) | Seismic-<br>IEEE Std 344-75*/**   | Article 4.0<br>(IEEE Std 344-75),<br>Paragraph 5.1; Appen-<br>dix I, Paragraph 4.2<br>(IEEE Std 344); G-9<br>Paragraph 7.0.   | J-258-21-1,<br>6/17/76,<br>acceptable                           | J-258-21-1,<br>6/17/76,<br>acceptable                           | Start Ship:<br>5/79A<br>Rerev:<br>Complete.<br>NCR 1765:<br>Dispositioned<br>4/20/79.  |
|   |  |   |   | J-258-44-3<br>4/18/79<br>Level 3                                | J-258-44-3<br>4/18/79<br>Level 3                                |  |
|   |  |   |   | J-258-48-1<br>1/9/79<br>Level 1                                 | J-258-48-1<br>1/9/79<br>Level 1                                 |  |
|   |  |   |   | J-258-54-1<br>2/21/79<br>Level 1                                | J-258-54-1<br>2/21/79<br>Level 1                                |  |
|   |  |   |   | J-258-39-1<br>J-258-55-1,<br>3/20/78,<br>Level 1                | J-258-39-1<br>J-258-55-1,<br>3/20/78,<br>Level 1                |  |
|   |  | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 382-72*                             | Paragraph 5.1 and<br>Appendix L<br>(environmental criteria)<br>no reference to<br>IEEE Standards<br>Article 4.0<br>(IEEE Std 382);<br>G-9, Paragraphs 4.2<br>(IEEE Std 382)<br>Paragraphs 4.0, 7.13<br>IEEE 382-72) | J-258-40-1,<br>4/18/78,<br>Level 1<br>(Limitorque<br>operators) | J-258-40-1,<br>4/18/78,<br>Level 1<br>(Limitorque<br>Operators) | ITT actuator<br>qualifications to<br>be submitted with<br>addendums and<br>letter clari-<br>fications. Liner<br>report data<br>required. |
| J-275/J-275,<br>Rev 3<br>(8/17/77)              | Engineering<br>safety<br>isolation<br>system<br>(CCC)                        | Seismic-<br>IEEE Std 344-75*/**   | Paragraphs 2.2, 3.3.3<br>(IEEE Std 344-75);<br>Section 4.1.3<br>(G-7, Rev 5)<br>G-321-D 7.0-PAR   | J-275-68-2,<br>6/7/78,<br>Level 1                               | J-275-58-2,<br>6/27/78,<br>Level 1                              | Start Ship:<br>4/1/78A<br>Rerev: In-<br>process.<br>NCR 1766   |
|   |  |   |   |   | J-275-76-1,<br>6/28/78,<br>Level 1                              |  |

950026

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer  | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference   | Qualification<br>Procedure        | Qualification<br>Results   | Status   |
|---|---|---|--|-----------------------------------|--|--|
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Paragraphs 2.2, 3.3.3, 5.1<br>(IEEE Std 323-74);<br>Subparagraph 4.1.1<br>(J-1564)     | J-275-75-2,<br>7/5/78,<br>Level 1 | J-275-79-1,<br>7/5/78,<br>Level 1                                    | See FSAR<br>Table 3.11-4<br>Test 17  |
|   |   | IEEE Std 383-74*  | Paragraphs 2.2, 6.7.1<br>(IEEE Std 383-74)<br>G-321-F 25.2-PANR                        |                                   | J-275-80-1,<br>7/11/78,<br>Level 1                                   | Letter to vendor,<br>11/14/78 requesting<br>test data to<br>verify compliance<br>with IEEE Std 383.<br>Reply from<br>subvendor 5/8/79. |
|   |   |   |  |                                   | J-275-81-1,<br>7/13/78,<br>Level 1<br>(Certificate<br>of compliance) | Letter to vendor<br>7/16/79 stating<br>that reply is<br>unacceptable and<br>reiterating<br>previous request.                           |
| J-278/J-278,<br>Rev. 3<br>(2/6/79)              | Room water<br>level safety<br>monitoring<br>system<br>(Automation<br>Industries)          | Seismic<br>IEEE Std 344-75*/**  | Section 2.2, 3.3.3,<br>6.2.5, 6.4.4, 6.6.4<br>(IEEE Std 344-75),<br>4.1.3 (G-7, Rev 5) | J-278-5-2<br>6/4/79<br>Level 1    | Submittal<br>expected by<br>9/79                                     | Start Ship:<br>9/30/79F<br>Rerev:<br>Not required  |
|   |   | Environmental<br>IEEE Std 323-74*/**  | Section 3.3.3, 5.1,<br>6.2.5, 6.6.4<br>(IEEE Std 323-74)                               | J-278-14-2<br>7/2/79<br>Level 3   | Submittal<br>expected by<br>9/79                                     |  |
|   |   |   |  | J-278-15-1<br>5/15/79<br>Level 1  | Submittal<br>expected by<br>9/79                                     |  |
| J-284/J-284,<br>Rev 1<br>(9/2/79F)              | Containment<br>post-LOCA<br>hydrogen<br>monitoring<br>equipment<br>(Reissued<br>for bids) | Seismic-<br>IEEE Std 344-75*/**   | Section 2B, 3C4<br>(IEEE Std 344-75);<br>Section 4.A.2<br>(G-7, Rev 5)                 | Submittal<br>expected<br>10/79    | Submittal<br>expected by<br>12/79                                    | Start Ship:<br>8/80F<br>Rerev: Not<br>required   |
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Section 2B, 3C4, 5A<br>(IEEE Std 323-74);<br>Section 4A<br>(7220-J-1564, Rev. 3)       | Submittal<br>expected by<br>10/79 | Submittal<br>expected by<br>12/79                                    |  |

950027

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer                                    | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference  | Qualification<br>Procedure                                       | Qualification<br>Results                           | Status   |
|---|---|---|---|--|--|--|
| M-14/M-14<br>Rev 3<br>(12/30/75)                | Auxiliary<br>feedwater<br>pumps<br>(Bingham-<br>Willamette) | Seismic-<br>IEEE Std 344-75*/**   | Articles 2.0, 6.1.3,<br>6.4.1.k, and 6.4.2.e<br>(IEEE Std 344-75);<br>Article 13.0<br>(G-7, Rev 4)<br>G-321-D 7.0-PAR | M-14-124-1,<br>3/29/79<br>in review<br>(motor driven<br>pumps)   | M-14-124-1,<br>3/29/79<br>in review                | Start Ship:<br>5/24/78A<br>Rerev:<br>Complete.<br>NCR 1767   |
|   |   |   |   | M-14-125-1,<br>3/29/79<br>in review<br>(turbine driven<br>pumps) | M-14-125-1,<br>3/29/79<br>in review                | Teletype to vendor<br>6/28/79 asking<br>for resubmittal<br>of seismic report<br>for the turbine<br>driver, and<br>submittal of<br>seismic report<br>for the turbine<br>driver control<br>panels.             |
|   |   |   |   | M-14-34-1,<br>8/1/78,<br>unacceptable                            | M-14-34-1,<br>8/1/78,<br>unacceptable              |  |
|   |   |   |   | M-14-71-1<br>M-14-72-1<br>11/10/77<br>unacceptable               | M-14-71-1<br>M-14-72-1<br>11/10/77<br>unacceptable | Letter to vendor<br>7/19/79 trans-<br>mitting comments<br>on seismic quali-<br>fication reports  |
|   |   |   |   | M-14-118-1,<br>1/5/79,<br>Level 2<br>(motors)                    | M-14-118-1,<br>1/5/79,<br>Level 2                  |  |
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Articles 2.0, 6.4.1.k,<br>and 6.4.2.e<br>(IEEE Std 323-74)  | M-14-119-2,<br>4/23/79,<br>in review<br>(motors)                 | M-14-119-2,<br>4/23/79,<br>in review<br>(motors)   | Teletype to vendor<br>6/28/79 asking for<br>IEEE Std 323<br>qualification<br>test program and<br>results for<br>turbine control<br>panels and controls<br>including governor<br>trip and throttle<br>valves. |

950028

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>               | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>                                   | <u>Qualification<br/>Results</u>                      | <u>Status</u>                                  |
|---|--|--|--|--|---|--|
| M-18/M-18,<br>Rev 4<br>(5/4/77)                           | Emergency<br>diesel<br>generators<br>(Delaval) | Seismic-<br>IEEE Std 344-75*/**  | Subparagraphs 1.6, 3.b.7<br>and 5.1.14<br>(IEEE Std 344-75);<br>Appendix A<br>(G-29, Rev 3)<br>G-321-D 7.0-PAR | M-18-30-3,<br>2/28/78,<br>Level 1                                    | Refer to<br>M-18-370,<br>371, 372 for<br>test results | Start Ship:<br>9/22/78A<br>Rerev:<br>Complete. |
|   |  |  |  | M-18-59-4,<br>1/25/78,<br>Level 1<br>(panels)                        | Refer to<br>M-18-370, 371<br>372 for test<br>results  |  |
|   |  |  |  | M-18-277-1<br>2/22/78<br>Level 3                                     | 9   |  |
|   |  |  |  | M-18-362-1<br>6/29/78<br>Level 1<br>(generators-<br>IEEE Std 344-75) | 9   |  |
|   |  |  |  | M-18-370-2,<br>5/31/79<br>in review                                  | 9   | M-18-370-2,<br>5/31/79<br>in review   9        |
|   |  |  |  | M-18-371-2,<br>5/31/79<br>in review                                  | 9   | M-18-371-2,<br>5/31/79<br>in review   9        |
|   |  |  |  | M-18-372-1,<br>2/7/79,<br>Level 3                                    |   | M-18-372-1,<br>2/7/79,<br>Level 3              |
|   |  |  |  | M-18-391-1<br>5/31/79<br>in review                                   | 9   | M-18-391-1<br>5/31/79<br>in review   9         |

950029



| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>                            | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>  | <u>Qualification<br/>Procedure</u>   | <u>Qualification<br/>Results</u> | <u>Status</u>  |
|---|---|--|---|--|----------------------------------|--|
|   |   | Environmental-<br>IEEE Std 323-74*/**  | Subparagraphs 3.b.7,<br>5.1.1a and c,<br>9.2.k<br>(IEEE Std 323-74)   | M-18-389-1,<br>5/20/79,<br>Level 3<br>(switchgear,<br>cabinets per<br>IEEE Std<br>323-74)  |                                  | Test results<br>expected early<br>1980.  |
|   |   |  |   | M-18-351-2<br>8/10/78<br>Level 2<br>(IEEE Std 323)   | 9                                | Teletype to<br>vendor 6/29/79<br>asking for<br>updated schedule<br>information |
|   |   |  |   | M-18-277-1<br>2/22/78<br>Level 3   | 9                                | See FSAR<br>Table 3.11-4<br>Test 17  |
|   |   |  |   | M-18-334-4,<br>5/22/79,<br>Level 1<br>(engine con-<br>trol system<br>components)   |                                  |  |
|   |   |  |   | M-18-362-1,<br>6/29/78,<br>Level 1<br>(Class 1F<br>motors, etc,<br>per IEEE<br>Stds 323-74,<br>334-75,<br>387-76)<br>(generator) |                                  |  |
| M-19/M-19,<br>Rev 2<br>(7/29/77)                          | Emergency<br>diesel fuel<br>transfer<br>pumps<br>(Chempump) | Seismic-<br>IEEE Std 344-75*/**  | Subparagraphs 4.1.1.h,<br>4.2.2, 4.5.2, 10.3.3.c<br>(IEEE Std 344-75);<br>Appendix H,<br>Subparagraphs 1.6.1,<br>1.7, 1.8, 1.9<br>(IEEE Std 344-75);<br>Appendix I,<br>Paragraph 3.5<br>G-321-D 7.0 PAR | M-19-20-3,<br>1/3/79,<br>Level 1   | M-19-20-3,<br>1/3/79,<br>Level 1 | Start Ship:<br>8/30/79F<br>Rerev: Not<br>required.                             |

950030

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer                                   | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference  | Qualification<br>Procedure                | Qualification<br>Results             | Status  |
|---|--|---|---|---|--------------------------------------|---|
|   |  | Environmental-<br>IEEE Std 323-74*/**   | Subparagraphs 4.1.1.h,<br>4.2.2, 4.5.3, 10.3.3.c<br>(IEEE Std 323-74);<br>Appendix H,<br>Subparagraph 1.6.1, 1.7,<br>1.8, 1.9 (IEEE Std<br>323-74); Appendix I,<br>Articles 3.0, 4.0;<br>E-10, Rev 9,<br>Subparagraph 11.3a,b<br>(IEEE Std 323-74,<br>IEEE Std 334-74)  | M-19-26-2,<br>4/3/79,<br>Level 3          | Expected<br>10/1/79                  |   |
| M-020/M-020,<br>Rev 2<br>(8/01/77)              | Traveling<br>water screens<br>(FMC)                        | Seismic-<br>IEEE Std 344-75*   9  | Page 3, MR, Paragraphs<br>1.c and 1.d;<br>Attachment 2,<br>Subparagraphs 3.B.9,<br>4.A.1, 5.E.6,<br>5.A.1; Appendix B,<br>Articles 1.A.27, 2.A,<br>2.B, 4.C, 5.B;<br>E-10, Paragraphs<br>2.10, 3.1 (IEEE Std);<br>G-5, Paragraphs<br>2.0 (IEEE Std);<br>G-30, Paragraph<br>1.0; Subparagraphs<br>1.1.1, 1.7 (IEEE<br>344-75)<br>G-321-D 7.0 PAR | M-20-21-3,<br>3/13/79,<br>Level 1         | M-20-21-3,<br>3/13/79,<br>Level 1    | Start Ship:<br>11/10/78A<br>Rerev: Not<br>required<br><br>Motors and<br>controls are<br>not Class 1E. |
|   |  | Environmental-none*   | Appendix B<br>(service conditions)   9  | See FSAR<br>Table 3.11-4<br>Test 16   9   |                                      |   |
| M-51/M-51,<br>Rev 4<br>(2/5/74)                 | Component<br>cooling<br>water heat<br>exchangers<br>(Yuba) | Seismic-none*   9   | Paragraphs 4.12,<br>7.4.b,<br>Appendix 1,<br>2.0, 5.0<br>(G-7, Rev 4)   | M-51-51-4<br>2/18/76,<br>Level 1   9      | M-51-51-4<br>2/18/76,<br>Level 1   9 | Start Ship:<br>3/10/78A<br>Rerev:<br>Complete.<br>NCR 1768  |
|   |  | Environmental-<br>none*   | Articles 3.0<br>3.1.2, 3.2.3,<br>Appendix 1   | See FSAR<br>Table 3.11-4,<br>Test 16.   9 |                                      |   |

050031

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer   | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference  | Qualification<br>Procedure  | Qualification<br>Results  | Status  |
|---|--|---|---|---|---|---|
| M-052/M-052,<br>Rev 5<br>(5/13/74)              | Component<br>cooling water<br>pump motors<br>(B&W Canada)          | Seismic-<br>IEEE Std 344-71*  | Paragraphs 4.4<br>(G-7, Rev 4), 4.9, 7.4;<br>E-10, Rev 8, 2.10, 3.1   | M-52-27-8,<br>1/30/78,<br>Level 1   | M-52-27-8,<br>1/30/78,<br>Level 1   | Start Ship:<br>12/21/77A<br>Rerev:<br>Inprocess.<br>NCR 1769<br>Pumps and motors<br>will be analyzed<br>in combination<br>in accordance<br>with IEEE Std<br>344-75.   9 |
|   |  | Environmental-<br>IEEE Std 323-74*  | Subparagraphs 3.1.2,<br>3.3.2, 4.10.1, 4.10.16,<br>4.11.2; E-10, Rev 8,<br>Paragraphs 2.9,<br>3.1                                 | Submittal<br>expected by   9<br>12/79   | Submittal<br>expected by   9<br>12/79   | Telex received<br>5/23/79.<br>Siemens-Allis<br>is presently<br>proceeding with<br>test program.   |
| M-53/M-53,<br>Rev 5<br>(5/20/77)                | Component<br>cooling<br>water<br>pumps<br>(Bingham-<br>Willamette) | Seismic-<br>IEEE Std 344-75**   | Paragraphs 2.2, 5.4.1,<br>3.2.5, 5.5<br>(IEEE Std 344-75);<br>Appendix A,<br>Articles 2.0, 5.0<br>(G-7, Rev 5)<br>G-321-D 7.0 PAR | M-53-24-5,<br>12/30/78,<br>Level 1  | M-53-24-5,<br>12/30/78,<br>Level 1  | Start Ship:<br>5/1/78A<br>Rerev:<br>Complete<br>See M-52 for<br>CCW pump motors.   9  |
|   |  | Environmental-none*   9   | Paragraphs 2.2, 5.4.1;<br>Subparagraphs 5.1.2;<br>Appendix A, 3.0   | See FSAR<br>Table 3.11-4   9<br>Test 16   |   |   |
| M-54/M-54,<br>Rev 5<br>(2/12/74)                | Reactor<br>building<br>spray<br>pumps<br>(B&W<br>Canada)           | Seismic-<br>IEEE Std 344-71*  | Subparagraph 4.5.1,<br>4.5.2 (E-10),<br>Section 10.3 (G-9)<br>G-321-D 7.0-PAR   | M-54-25-3,<br>1/16/75,<br>Level 1<br><br>M-54-54-1,<br>1/16/75,<br>Level 1<br><br>M-54-55-1,<br>1/16/75,<br>Level 1 | M-54-25-3,<br>1/16/75,<br>Level 1<br><br>M-54-54-1,<br>1/16/75,<br>Level 1<br><br>M-54-55-1,<br>1/16/75,<br>Level 1 | Start Ship:<br>1/20/78A<br>Rerev:<br>Complete.<br>NCR 1770  |
|   |  | Environmental-<br>IEEE 323-71*  | Subparagraphs<br>2.1.2, 2.2   | See FSAR<br>Table 3.11-4,   9<br>Test 16.   |   |   |

950032

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer                                      | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference   | Qualification<br>Procedure              | Qualification<br>Results                | Status  |
|---|---|---|--|---|---|---|
| M-55/M-55,<br>Rev 4<br>(10/18/74)               | Fuel pool<br>cooling<br>heat<br>exchanger<br>(Yuba)           | Seismic-<br>IEEE Std 344-71*  | Subparagraphs 2.2<br>Item 7; 2.3.3;<br>4.3.9; 7.4b<br>(IEEE Std 344);<br>Appendix 1,<br>Article 2.0<br>(G-7, Rev 4)<br>G-321-D 7.0 PAR | M-55-27-3,<br>7/27/77,<br>acceptable    | M-55-27-3,<br>7/27/77,<br>acceptable    | Start Ship:<br>4/15/77A<br>Rerev:<br>Complete               |
|   |   | Environmental-<br>none*   | Subparagraphs 3.1.2,<br>3.2.2, 3.2.3.1,<br>Appendix ,<br>Article 3.0   | 9                                       | 9                                       |   |
| M-56/M-56,<br>Rev 3<br>(1/14/75)                | Fuel pool<br>cooling and<br>chilled water<br>pumps<br>(Gould) | Seismic-<br>IEEE Std 344-71*  | Subparagraphs 4.2.2,<br>4.5.2, 10.3; Appendix 1,<br>2.3, 5.0<br>(G-7, Rev 4)<br>G-321-D 7.0 PAR  | M-56-70-1,<br>10/27/77,<br>unacceptable | M-56-70-1,<br>10/27/77,<br>unacceptable | Start Ship:<br>2/11/79A<br>Rerev:<br>Complete.<br>(seismic) |
|   |   |   |  | M-56-71-1,<br>10/27/77,<br>unacceptable | M-56-71-1,<br>10/27/77,<br>unacceptable | Not required.<br>(environmental)<br>NCR 1771                |
|   |   |   |  | M-56-72-1,<br>1/12/78,<br>acceptable    | M-56-72-1,<br>1/12/78,<br>acceptable    |   |
|   |   |   |  | M-56-73-1,<br>2/22/78,<br>Level 1       | M-56-73-1,<br>2/22/78,<br>Level 1       |   |
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Appendix 1,<br>Article 3.0   | M-56-69-3,<br>3/20/79,<br>Level 1       | M-56-69-3,<br>3/20/79,<br>Level 1       | See FSAR<br>Table 3.11-4<br>Test 16.                        |
| M-61/M-61,<br>Rev 2<br>(11/13/75)               | Makeup<br>filters<br>(Pall<br>Trinity)                        | Seismic-none*   | Paragraph 6.5<br>(G-7, Rev 4)<br>G-321-D 7.0 PAR   | M-61-17-1,<br>6/15/77,<br>Level 1       | M-61-17-1,<br>6/15/77,<br>Level 1       | Start Ship:<br>5/8/78A,<br>Rerev:<br>Complete.<br>NCR 1772  |
|   |   | Environmental-<br>none*   | Paragraphs 5.3 and 6.1<br>(Table 1 and Appendix<br>A)  | 9                                       | 9                                       |   |

950033

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u> | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>      | <u>Qualification<br/>Procedure</u>   | <u>Qualification<br/>Results</u>   | <u>Status</u>   |
|---|----------------------------------|--|---|--|--|---|
| M-64/M-64,<br>Rev 6<br>(3/29/74)                          | Nuclear tanks<br>(Richmond)      | Seismic-none*  | Subparagraphs 7.2.1.i<br>(G-29, Rev 2;<br>G-7, Rev 4) | M-64-32-4,<br>9/13/76,<br>acceptable                                       | M-64-32-4,<br>9/13/76,<br>acceptable                                       | Start Ship:<br>7/8/76A,<br>Rerev:<br>Inprocess.<br>NCR 1773 |
|   |                                  |  |   | M-64-33-4,<br>4/15/76,<br>acceptable                                       | M-64-33-4,<br>4/15/76,<br>acceptable                                       |   |
|   |                                  |  |   | M-64-34-5,<br>6, 22/78,<br>acceptable                                      | M-64-34-5,<br>6/22/78,<br>acceptable                                       |   |
|   |                                  |  |   | M-64-35-4,<br>4/15/76,<br>acceptable                                       | M-64-35-4,<br>4/15/76,<br>acceptable                                       |   |
|   |                                  |  |   | M-64-42-2,<br>11/25/74,<br>acceptable                                      | M-64-42-2,<br>11/25/74,<br>acceptable                                      |   |
|   |                                  |  |   | M-64-64-4,<br>5/3/79,<br>acceptable  | M-64-64-4,<br>5/3/79,<br>acceptable  |   |
|   |                                  |  |   | M-64-65-4,<br>5/3/79,<br>acceptable  | M-64-65-4,<br>5/3/79,<br>acceptable  |   |
|   |                                  |  |   | Submittal<br>expected by<br>10/79 (nitrogen<br>tanks)                      | Submittal<br>expected by<br>10/79 (nitrogen<br>tanks)                      | 9   |
|   |                                  |  |   | M-64-73-3<br>4/13/78<br>Level 1<br>(pressurized<br>water storage<br>tanks) | M-64-73-3<br>4/13/78<br>Level 1<br>(pressurized<br>water storage<br>tanks) | 9   |
|   |                                  | Environmental-<br>none*  | Paragraph 3.1<br>(temperature)                        | See FSAR<br>Table 3.11-4,<br>Test 16.                                      |  | 9   |

950034

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer                              | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference  | Qualification<br>Procedure                   | Qualification<br>Results                     | Status   |
|---|---|---|---|--|--|--|
| M-75/M-75,<br>Rev 5<br>(12/30/75)               | Service<br>water<br>pumps<br>(Gould)                  | Seismic-<br>IEEE Std 344-75*/**   | Paragraphs 4.1, 8.1<br>(IEEE Std);<br>Subparagraphs 7.1.8-11,<br>9.3.2 (G-30, Rev 1);<br>Article 13.0;<br>Appendix 1,<br>Article 2.0;<br>Appendix 2, Paragraph 2.4<br>(G-30, Rev 1); Article<br>1.0 (IEEE Std 344-75) | M-75-21-6,<br>1/28/78,<br>Level 1<br>(pumps) | M-75-21-6,<br>1/28/78,<br>Level 1<br>(pumps) | Start Ship:<br>12/30/77A<br>Rerev:<br>Complete.<br>NCR 1774                              |
|   |   | Environmental-<br>IEEE Std 323-74*/**   | Paragraphs 4.1, 8.1<br>(IEEE Std);<br>Appendix 1,<br>Article 3.0;<br>Appendix 2,<br>Paragraph 3.0<br>G-321-D 7.0 PAR  | M-75-28-1,<br>11/28/77,<br>Level 1           | M-75-63-1,<br>4/4/79,<br>Level 3             | Request to<br>vendor 4/23/79<br>requesting more<br>data on motor<br>testing.             |
| M-90/M-90,<br>Rev 2<br>(5/17/77)                | Incore<br>instrument<br>tank<br>(CBI)                 | Seismic-none*   | Paragraphs 5.12, 10.2.4,<br>Article 7.0<br>(G-6, Rev 4);<br>Appendix 1,<br>Paragraphs 2.0,<br>2.3 (G-6, Rev 4)<br>G-321-D 7.0 PAR   | M-90-34-3,<br>1/27/78,<br>Level 1            | M-90-34-3,<br>6/27/78,<br>Level 1            | Shipped<br>4/1/78A<br>Rerev:<br>Complete   |
|   |   | Environmental-<br>none*   | Paragraphs 4.1;<br>Appendix 1,<br>Article 3.0<br>(G-26, Rev 1)  |  |  |  |
| M-92/M-92,<br>Rev 4<br>(1/26/70)                | Reactor<br>building<br>cranes<br>(Harni-<br>schfeger) | Seismic-<br>none*   | Paragraph 3.2<br>(G-6);<br>E-10, Rev 5,<br>Paragraphs 2.10, 3.0<br>(G-7, Rev 4)   | M-92-34-3,<br>3/7/78,<br>In review           | M-92-34-3,<br>3/7/78,<br>In review           | Start Ship:<br>3/14/75A<br>Rerev:<br>In process.<br>NCR 1775                             |
|   |   | Environmental-<br>none*   | Paragraph 2.2<br>E-10, Rev 5,<br>Paragraph 3.1  |  |  |  |
| M-93/M-93,<br>Rev 3<br>(10/23/75)               | Auxiliary<br>building<br>crane<br>(Ederer)            | Seismic-<br>IEEE Std 344-75*  | Paragraphs 3.2, 3.12<br>9.0, 10.2, (G-7, Rev 4)<br>4.22 (E-10)<br>G-321-D 7.0-PAR   | M-93-1-3,<br>8/18/76,<br>acceptable          | M-93-1-3,<br>8/18/76,<br>acceptable          | Start Ship:<br>9/17/76A<br>Rerev:<br>Complete.<br>NCR 1776:<br>Dispositioned<br>4/20/79. |

550035

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer  | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments**   | Specification<br>Qualification Reference   | Qualification<br>Procedure  | Qualification<br>Results  | Status  |
|---|---|---|--|---|---|---|
| M-117/M-117,<br>Rev 10<br>(3/13/74)             | Nuclear<br>service<br>valve<br>(Anchor/<br>Darling)                           | Environmental-<br>none*<br><br>Seismic-<br>IEEE Std 344-71*   | Paragraph 2.2<br>Paragraph 4.22 (E-10)<br><br>M-221, Paragraph 3.1,<br>Appendix 1,<br>Paragraph A1.12<br>(RG 1.48); G-9, Para-<br>graphs 4.2, 7.1<br>(IEEE Std 344-71) | M-117-40-3,<br>8/5/76,<br>acceptable<br><br>M-117-41-3,<br>8/5, 76,<br>acceptable<br><br>M-117-93-1<br>5/15/79<br>In review | M-117-40-3,<br>8/5/76,<br>acceptable<br><br>M-117-41-3,<br>8/5/76<br>acceptab.e<br><br>M-117-93-i<br>5/15/79<br>In review | Start Ship:<br>5/15/78A<br>Rerev:<br>Inprocess.<br>NCR 1777 |
| M-118A/M-118A,<br>Rev 4<br>(5/9/74)             | Nuclear<br>service<br>gate and<br>globe valves<br>(E.B.V.<br>Systems)         | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 382-72*/**<br>(solenoid valves<br>inside<br>containment)<br>IEEE Std 382-72,<br>Draft 12**<br>(motor operated<br>valves inside<br>containment) | M-221, Paragraph 3.1,<br>7.1; G-9, Paragraph 4.2<br>(IEEE Std 382-72);   | M-117-90-1<br>7/8/79<br>Level 1   | M-117-90-1<br>7/8/79<br>Level 1   |   |
| M-118A/M-118A,<br>Rev 4<br>(5/9/74)             | Nuclear<br>service<br>gate and<br>globe valves<br>(E.B.V.<br>Systems)         | Seismic-<br>IEEE Std 344-71*  | M-221, Paragraph 3.1,<br>Appendix A1,<br>Paragraphs A1.11,<br>A1.20, A1.23<br>(IEEE Std 344-71)<br>Appendices B, C, D<br>G-321-D 7.0 PAR                               | M-118A-55-2,<br>3/17/78,<br>acceptable<br><br>Additional<br>submittal<br>expected by<br>3/80                                | M-118A-55-2,<br>3/17/78,<br>acceptable<br><br>Additional<br>submittal<br>expected by<br>3/80                              | Start Ship:<br>4/24/78A<br>Rerev:<br>Complete.<br>NCR 1778  |
| M-118B/M-118B,<br>Rev 4<br>(5/9/74)             | Nuclear<br>service<br>gate and<br>globe valves<br>(Rockwell<br>International) | Environmental-<br>IEEE Std 323-74*  | 21, Paragraph 3.1,<br>Appendix 1,<br>Paragraphs A1.4, A1.19.20   | M-118B-48-2,<br>6/6/77,<br>acceptable<br><br>M-118B-78-2<br>5/29/79<br>Level 1  | M-118B-48-2,<br>6/6/77,<br>acceptable<br><br>M-118B-78-2<br>5/29/79<br>Level 1  | Start Ship:<br>1/79A<br>Rerev:<br>Inprocess.<br>NCR 1979    |

950036

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer  | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments**   | Specification<br>Qualification Reference  | Qualification<br>Procedure                              | Qualification<br>Results                                | Status   |
|---|---|---|---|---|---|--|
|   |   | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 382-72*/**<br>(solenoid valves<br>inside containment)                                      | M-221-Sect 3.1,<br>Paragraphs A1.4, A1.31<br>A1.34; Appendix A14,<br>Article 5.0;<br>G-32, Paragraph 2.A,<br>B, 8.C.4-5;<br>(IEEE Std 323-72,<br>IEEE Std 382-72) | M-118B-81-2,<br>4/3/79,<br>Level 1                      | M-118B-94-1,<br>7/23/79<br>Level 1                      | 9  |
|   |   |   |   | M-118B-82-1<br>3/13/79<br>Level 1<br>(radiation)        | M-118B-95-1<br>7/18/79<br>Level 1                       | 9  |
| M-120/M-120,<br>Rev 3<br>(7/6/74)               | Nuclear<br>valves, 2 1/2" and larger<br>(Anchor/<br>Darling)      | Seismic-<br>IEEE Std 344-71*  | M-221, Article 3.1,<br>Paragraph 3.1, Appendix 1<br>Paragraph A1.4; G-9,<br>Paragraphs 4.2, 7.1,<br>(IEEE Std 344)<br>G-321-D-7.0-PAR                             | M-120-77-2,<br>8/5/76,<br>acceptable                    | M-120-77-2,<br>8/5/76,<br>acceptable                    | Start Ship:<br>9/13/78A<br>Rerev:<br>Complete.<br>NCR 1780 |
|   |   |   |   | M-120-95-1<br>through<br>97-1,<br>8/5/76,<br>acceptable | M-120-95-1<br>through<br>97-1,<br>8/5/76,<br>acceptable |  |
|   |   |   |   | M-120-105-1,<br>and -106-1,<br>12/9/77,<br>acceptable   | M-120-105-1,<br>and -106-1,<br>12/9/77,<br>acceptable   |  |
|   |   |   |   | M-120-107-2,<br>6/16/78,<br>Level 1                     | M-120-107-2,<br>6/16/78,<br>Level 1                     |  |
|   |   | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 382-72*<br>IEEE Std 382-72,<br>Draft 13**<br>(motor operated valves<br>inside containment) | M-221, Paragraph 3.1<br>Appendix 1, Para-<br>graph A1.1; G-9,<br>Section 4.2, 7.1,<br>(IEEE 382-72,<br>323-71)  | M-120-120-1<br>2/26/79<br>Level 1                       | M-120-120-1<br>2/26/79<br>Level 1                       | 9  |
| M-123A/123A,<br>Rev 2<br>(5/24/74)              | Nuclear<br>valves,<br>2 1/2" and<br>larger<br>(Westing-<br>house) | Seismic-<br>IEEE Std 344-71*  | M-221, Article 3.1<br>Appendix 1, Para-<br>graphs A1.14, G-9, Para-<br>graphs 4.2, 7.1<br>(IEEE Std 344)<br>Appendix 7, 4.2<br>G-321-D 7.0 PAR                    | M-123A-93-2,<br>1/25/77,<br>acceptable                  | M-123A-93-2<br>1/25/77<br>acceptable                    | Start Ship:<br>4/30/76A<br>Rerev: In-<br>process.          |

950037



| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer   | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments**  | Specification<br>Qualification Reference   | Qualification<br>Procedure              | Qualification<br>Results                | Status  |
|---|--|--|--|---|---|---|
|   |  | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 382-72*<br>IEEE Std 382-72,<br>Draft 13**<br>(motor operated<br>valves inside<br>containment) | M-221, Article 3.1<br>Appendix 1, Para-<br>graphs A1.1, G-9,<br>Paragraphs 4.2, 7.1<br>(IEEE Std 323 and<br>382)<br>G-321-D 26.0 PAR | M-123A-96-2,<br>5/29/79<br>Level 1      | M-123A-96-2<br>5/29/79<br>Level 1       |   |
| M-123B/M-123B,<br>Rev 2<br>(10/25/75)           | Nuclear<br>valves,<br>2 1/2"<br>and larger<br>(Target<br>Rock)     | Seismic-<br>IEEE Std 344-75*/**  | M-221, Paragraph 3.1,<br>Table 1, 3; Appendix 1,<br>A1.4 (RG 1.48);<br>G-9, Paragraphs 4.2,<br>7.1 (IEEE Std 344)<br>G-321-D-7.0-PAR | M-123B-48-1,<br>5/19/77,<br>Level 1     | M-123B-48-1,<br>5/19/77,<br>Level 1     | Start Ship:<br>4/30/77A<br>Rerev:<br>Inprocess.<br>NCR 1781<br>New QTRs issued<br>for M-123B-48-1<br>and<br>M-123B-54-2 |
|   |  | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 382-72*<br>IEEE Std 382-72,<br>Draft 13**<br>(motor operated valves<br>inside containment) | M-221, Article 3.1<br>Appendix 1,<br>Paragraphs 1.1<br>G-9, Paragraphs 4.2,<br>7.1<br>(IEEE Std 323 and 382)<br>G-321-D 7.0 PAR      | M-123B-54-2<br>5/29/79<br>Level 1       | M-123B-54-2<br>5/29/79<br>Level 1       |   |
| M-123C/M-123C,<br>Rev 2<br>(10/25/74)           | Nuclear<br>valves,<br>2 1/2" and<br>larger<br>(Anchor/<br>Darling) | Seismic-<br>IEEE Std 344-75*/**  | M-221, Paragraph 3.1;<br>Table 1, 3;<br>Appendix 1, A1.4<br>(RG 1.48) G-9, Paragraphs<br>4.2, 7.1 (IEEE Std 344)<br>G-321-D 7.0-PAR  | M-123C-44-1,<br>8/5/76,<br>acceptable   | M-123C-44-1,<br>8/5/76,<br>acceptable   | Start Ship:<br>4/12/78A<br>Rerev:<br>Inprocess.<br>NCR 1782   |
|   |  | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 382-72*   | M-221, Paragraph 3.1;<br>Appendix 1, A1.1;<br>G-9, Paragraphs 4.2, 7.1<br>(IEEE Std 323 and 382)                                     | M-123C-37-2,<br>12/19/78<br>Level 1     | M-123C-37-2<br>12/19/78,<br>Level 1     |   |
| M-125A/M-125A,<br>Rev 3<br>(6/14/74)            | Nuclear<br>valves,<br>globe and<br>check<br>(Westing-<br>house)    | Seismic-<br>IEEE Std 344-71*   | M-221, Paragraph, 3.1,<br>Appendix 1, A1.4,<br>(RG 1.48); G-9, Paragraph<br>4.2, (IEEE Std 344)<br>G-321-D 7.0-PAR                   | M-125A-88-2,<br>12/13/76,<br>acceptable | M-125A-88-2,<br>12/13/76,<br>acceptable | Start Ship:<br>9/28/76A<br>Rerev:<br>Complete.<br>NCR 1783  |

950038

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer   | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments**   | Specification<br>Qualification Reference   | Qualification<br>Procedure  | Qualification<br>Results  | Status   |
|---|--|---|--|---|---|--|
|   |  | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 382-72*<br>IEEE Std 382-72,<br>Draft 13**<br>(motor operated valves<br>inside containment) | M-221, Article 3.1,<br>Appendix 1, Paragraph<br>A1.1; G-9, Paragraphs<br>4.2, 7.1 (IEEE Std 323<br>and 382)      | M-125A-92-1<br>2/8/79<br>Level 1  | M-125A-92-1<br>2/8/79<br>Level 1  | 9  |
| M-125B/M-125,<br>Rev 3<br>(6/21/74)             | Nuclear<br>check<br>valves<br>(Target<br>Rock)                           | Seismic-<br>IEEE Std 344-71*  | M-221, Paragraph 3.1;<br>Table 1,<br>Appendix 1, A1.4; G-9,<br>Rev 1, 4.0 (IEEE Std 344)<br>G-321-D 7.0-PAR      | M-125B-26-1<br>through 32-1,<br>10/16/75,<br>Level 1  | M-125B-26-1<br>through 32-1,<br>10/16/75,<br>Level 1  | Start Ship:<br>1/5/77A<br>Rerev:<br>Complete.<br>NCR 1784<br>Dispositioned<br>4/20/79. |
|   |  | Environmental-none*   |  | Not required  | Not required  |  |
| M-125C/M-125,<br>Rev 3<br>(6/21/74)             | Nuclear<br>service valves<br>2-1/2" and<br>larger<br>(Anchor<br>Darling) | Seismic-<br>IEEE Std 344-71*  | M-221, Paragraph 3.1,<br>Table 1, 3;<br>G-9, Paragraphs 4.2,<br>7.1 (IEEE Std 3<br>G-321-D 7.0-PAF               | M-125C-54-3,<br>11/9/79,<br>Level 1<br><br>M-125C-59-1<br>through -62-1,<br>8/5/76,<br>acceptable<br><br>M-125C-92-1,<br>2/1/78,<br>Level 1 | M-125C-54-3,<br>11/9/79,<br>Level 1<br><br>M-125C-59-1<br>through -62-1,<br>8/5/76,<br>acceptable<br><br>M-125C-92-1,<br>2/1/78,<br>Level 1 | Start Ship:<br>4/12/78A<br>Rerev:<br>Complete.<br>NCR 1785                             |
|   |  | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 382-72*<br>IEEE Std 382-72,<br>Draft 13**<br>(motor operated valves<br>inside containment) | M-221, Paragraph 3.1,<br>Appendix 1, Subparagraph<br>A1.1; G-9, Paragraphs<br>4.2, 7.1 (IEEE Std 323<br>and 382) | M-125C-111-1,<br>2/8/79<br>Level 1  | M-125C-111-1,<br>2/8/79<br>Level 1  | 9  |

950039

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>  | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>                               | <u>Qualification<br/>Results</u>                                 | <u>Status</u>   |
|---|---|--|--|--|--|---|
| M-127A/M-127,<br>Rev 4<br>(9/16/74)                       | Nuclear<br>manual and<br>air-operated<br>valves 2"<br>and under<br>(Kerotest)       | Seismic-<br>IEEE Std 344-71*   | M-225, Paragraph 3.2,<br>16.4, Appendix A1, Para-<br>graph A1.3; G-9, Para-<br>graphs 4.2, 7.1, (IEEE),<br>G-10, 11.3<br>G-321-D 7.0 PAR | M-127A-20-1<br>9/20/76<br>acceptable<br>(air operated<br>valves) | M-127A-20-1<br>9/20/76<br>acceptable<br>(air operated<br>valves) | Start Ship:<br>3/31/78A<br>Rerev:<br>Complete.<br>NCR 1786<br>Air operated<br>valves on<br>surplus. |
|   |   | Environmental-<br>none*  |  | Not required<br>(manual valves)                                  | Not required<br>(manual valves)                                  |   |
| M-127B/M-127,<br>Rev 3<br>(9/16/74)                       | Nuclear<br>manual oper-<br>ated valves<br>2" and<br>under (Henry<br>Vogt)           | Seismic-<br>IEEE Std 344-71*   | M-225, Paragraphs<br>3.2, 16.4.4c; Appendix<br>A1, Paragraph A1.3<br>G-321-D 7.0-PAR   |  |  | Start Ship:<br>9/18/78A<br>Rerev:<br>Complete.<br>NCR 1787  |
|   |   | Environmental-<br>none*  | M-225 Paragraph 3.2;<br>Appendix A1, Paragraph<br>A1.1, A1.9; G-26   | Not required<br>(manual valves)                                  | Not required<br>(manual valves)                                  |   |
| M-127C/M-127,<br>Rev 3<br>(9/17/74)                       | Nuclear<br>manual oper-<br>ated valves<br>2" and<br>under<br>(Yarway)               | Seismic-<br>IEEE Std 344-71*   | M-225, Paragraphs<br>3.2, 16.4.4c; Appendix<br>A1 Paragraph A1.3<br>G-321-D 7.0-PAR  | M-127C-11-1<br>11/6/75<br>Level 5                                | M-127C-11-1<br>11/6/75<br>Level 5                                | Start Ship:<br>10/13/78A<br>Rerev:<br>Complete.<br>NCR 1788   |
|   |   | Environmental-<br>none*  | M-225, Paragraph 3.1,<br>Appendix A1, Paragraph<br>A1.1, Appendix A1,<br>Paragraph A1.9; G-26  | Not required<br>(manual valves)                                  | Not required<br>(manual valves)                                  |   |
| M-129A/M-129,<br>Rev 2<br>(9/16/74)                       | Nuclear<br>valves, sst,<br>manual and<br>air-operated<br>2" and under<br>(Kerotest) | Seismic-<br>IEEE Std 344-71*   | M-225, Article 3.2,<br>Appendix A1, Paragraph<br>A1.3; G-9, Paragraphs<br>4.2, 7.1 (IEEE),<br>G-10 Article 11.3<br>G-321-D 7.0-PAR       | M-129A-63-1,<br>9/20/76,<br>acceptable                           | M-129A-63-1,<br>9/20/76,<br>acceptable                           | Start Ship:<br>2/15/78A<br>Rerev: In-<br>process.   |

950040

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer   | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments**   | Specification<br>Qualification Reference  | Qualification<br>Procedure   | Qualification<br>Results   | Status  |
|---|--|---|---|--|--|---|
|   |  | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 382-72*  | Appendix A1, A1.1; G-9<br>Paragraphs 4.2, 7.1<br>G-26; G-10, Paragraph 11.3<br>G-321-D 26.0 PAR   | Not required<br>(manual valves)<br><br>See FSAR<br>Table 3.11-4<br>Test 16<br>(air-operated<br>valves)                           | Not required<br>(manual valves)  |   |
| M-129B/M-129,<br>Rev 1<br>(9/16/74)             | Nuclear<br>valves, sst,<br>2" and under<br>(Weston<br>Hydromatics) | Seismic-<br>IEEE Std 344-71*  | M-225, Paragraphs 3.2,<br>3.2.3; G-9, Paragraphs<br>4.2, 7.1 (IEEE Std 344);<br>G-10, Paragraph 11.3<br>G-321-D 7.0-PAR                               | M-129B-31-1,<br>6/25/76,<br>acceptable<br><br>M-129B-32-5,<br>3/20/79,<br>Level 1<br><br>M-129B-33-2,<br>11/18/76,<br>acceptable | M-129B-31-1,<br>6/25/76,<br>acceptable<br><br>M-129B-32-5,<br>3/20/79,<br>Level 1<br><br>M-129B-33-2,<br>11/18/76,<br>acceptable | Start Ship:<br>2/15/78A<br>Rerev:<br>Inprocess.<br>All valves<br>currently<br>surplus.  |
|   |  | Environmental-<br>IEEE Std 323-74*<br>IEEE Std 382-72*<br>IEEE Std 382-72,<br>Draft 13**<br>(motor operated valves<br>inside containment) | M- 25, Paragraph 3.2<br>Appendix A1, Paragraph<br>A1.1; G-9, Paragraphs<br>4.2, 7.1 (IEEE Std 382);<br>G-26; G-10, Paragraph 11.3<br>G-321-D 26.0 PAR |  |  | Letter from<br>vendor 3/1/79<br>clarifying<br>applicability<br>of Limitorque<br>Reports |
| M-131/M-131,<br>Rev 2<br>(7/7/78)               | Diaphragm<br>valves<br>(ITT Grinnell)                              | Seismic-<br>IEEE Std 344-75*/**   | Paragraph 3.B.1.C, 4.A.1,<br>5.B; Attachment E,<br>Article 1.0; Table C-1<br>G-321-D 7.0-PAR  | M-131-27-3<br>7/23/79<br>Level 1   | M-131-27-3<br>7/23/79<br>Level 1   | Start Ship:<br>On hold<br>(audit)<br>Rerev: Not<br>required                             |
|   |  | Environmental-<br>IEEE Std 323-7: *   | Paragraphs 4.A.1, 4.A.4,<br>Appendix A; Article 3.0<br>Attachment E, Table C-1  | See FSAR<br>Table 3.11-4<br>Test 16.   |  |   |
| M-132/M-132,<br>Rev 3<br>(11/27/74)             | Butterfly<br>valves<br>(H. Pratt)                                  | Seismic-<br>IEEE Std 344-71*  | M-228, Paragraph 3.1,<br>Appendix 1,<br>Section A1.3,<br>(RG 1.48)<br>G-321-D 7.0-PAR   | M-132-67-3,<br>through -72-3,<br>9/7/76,<br>acceptable<br><br>M-132-83-1<br>and -84-1,<br>9/24/76,<br>acceptable                 | M-132-67-3,<br>through -72-3,<br>9/7/76,<br>acceptable<br><br>M-132-83-1<br>and -84-1,<br>9/24/76,<br>acceptable                 | Start Ship:<br>11/22/77<br>Rerev:<br>Complete.<br>NCR 1789                              |

950041

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>                            | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u>   | <u>Specification<br/>Qualification Reference</u>  | <u>Qualification<br/>Procedure</u>                      | <u>Qualification<br/>Results</u>                        | <u>Status</u>   |
|---|---|--|---|---|---|---|
|   |   |  |   | M-132-87-1<br>through -92-1,<br>10/12/76,<br>acceptable | M-132-87-1<br>through -92-1,<br>10/12/76,<br>acceptable |   |
|   |   |  |   | M-132-99-2<br>through -103-2,<br>5/12/77,<br>acceptable | M-132-99-2<br>through -103-2,<br>5/12/77,<br>acceptable |   |
|   |   |  |   | M-132-105-2,<br>3/3/78,<br>Level 1                      | M-132-105-2,<br>3/3/78,<br>Level 1                      |   |
|   |   |  |   | M-132-106-1,<br>3/3/78,<br>Level 1                      | M-132-106-1,<br>3/3/78,<br>Level 1                      |   |
|   |   | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 382-72*<br>IEEE Std 382-72,<br>Draft 13**<br>(motor operated valves<br>inside containment) | M-228, Paragraph 3.1;<br>Appendix 1, Paragraph<br>A1.1  | M-132-108-1,<br>3/20/79<br>Level 1                      | M-132-108-1,<br>3/20/79<br>Level 1                      |   |
| M-134/M-134,<br>Rev 3<br>(1/7/77)                         | Steel plug<br>valves<br>(1 line)                            | Seismic-<br>IEEE Std 344-75*/**  | Section 3.B.1.C,<br>4.A.1,<br>5.B; G-9, Paragraph<br>4.2 (IEEE<br>Std 344)<br>G-321-D 7.0 PAR                 | M-134-36-1<br>through -45-1,<br>6/9/78,<br>Level 1      | M-134-36-1<br>through -45-1,<br>6/9/78,<br>Level 1      | Start Ship:<br>3/23/79A<br>Rerev:<br>Inprocess.<br>NCR 1790 |
|   |   |  |   | M-134-46-2,<br>7/10/78,<br>Level 1                      | M-134-46-2,<br>7/10/78,<br>Level 1                      |   |
|   |   | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 382-72*  | Appendix C, Article 3.0;<br>G-9, Paragraphs 4.2,<br>(IEEE Std 382) 7.1  | M-134-85-1,<br>11/15/78,<br>Level 1                     | M-134-85-1,<br>11/15/78,<br>Level 1                     | See FSAR<br>Table 3.11-4<br>Test 16.   9                    |
| M-140/M-140,<br>Rev 2<br>(5/6/77)                         | Nuclear<br>service<br>pressure<br>relief valves<br>(Crosby) | Seismic-none*<br>IEEE Std 344-75*/**<br>(1 and 2 PSV-1016<br>only)   | Page 5, Item 18; Attach-<br>ment 1.0, Paragraph 3.6;<br>Appendix D, Paragraphs<br>2.4, 2.5<br>G-321-D 7.0-PAR | M-140-70-1,<br>4/26/78,<br>Level 1                      | M-140-70-1,<br>4/26/78,<br>Level 1                      | Start Ship:<br>6/21/79A<br>Rerev:<br>Complete   9           |

950042

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>                           | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>  | <u>Qualification<br/>Results</u>  | <u>Status</u>  |
|---|--|--|--|---|---|--|
|   |  |  |  | M-140-76-3,<br>M-140-80-3,<br>M-140-81-3,<br>M-140-82-3,<br>M-140-83-3,<br>M-140-84-3,<br>1/19/79,<br>Level 1 | M-140-76-3,<br>M-140-80-3,<br>M-140-81-3,<br>M-140-82-3,<br>M-140-83-3,<br>M-140-84-3,<br>1/19/79,<br>Level 1 |  |
|   |  |  |  | M-140-77-4,<br>5/22/79,<br>Level 1  | M-140-77-4,<br>5/22/79,<br>Level 1  | 9  |
|   |  |  |  | M-140-78-6,<br>5/22/79,<br>Level 1  | M-140-78-6,<br>5/22/79,<br>Level 1  | 9  |
|   |  |  |  | M-140-79-4,<br>3/29/79,<br>Level 1  | M-140-79-4,<br>3/29/79,<br>Level 1  |  |
|   |  |  |  | M-140-85-4,<br>4/30/79,<br>Level 1  | M-140-85-4,<br>4/30/79,<br>Level 1  |  |
|   |  |  |  | M-140-86-4,<br>5/22/79,<br>Level 2  | M-140-86-4,<br>5/22/79,<br>Level 2  | 9  |
|   |  | Environmental-<br>none*  | Section 3.2, Appendix D<br>Paragraphs 2.1, 3.0,<br>Appendix F  | M-140-41-1<br>10/3/77<br>Level 5  |   | 9  |
| M-146/M-146,<br>Rev 2<br>(6/19/75)                        | Auxiliary<br>building<br>safeguard<br>chiller<br>(Carrier) | Seismic-<br>IEEE Std 344-71*   | Section 3.5<br>10.3.1.i,<br>5.16 (G-7); E-10,<br>Paragraph 2.10 (G-7<br>Rev 4); Section 3.1<br>(IEEE Std)<br>G-321-D 7.0-PAR | M-146-16-2,<br>1/23/76,<br>Level 1  | M-146-16-2,<br>1/23/76,<br>Level 1  | Start Ship:<br>10/29/76A<br>Rerev:<br>Inprocess.<br>NCR 1791 |
|   |  | Environmental-<br>IEEE Std 323-74*/**  | Section 3.5;<br>M-146-Sk-1,<br>Section 1.11; E-10<br>Section 3.1 (IEEE Std)  | See FSAR<br>Table 3.11-4<br>3.11-4,<br>Test 16.   |   | 9  |

950043

| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer         | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments** | Specification<br>Qualification Reference   | Qualification<br>Procedure  | Qualification<br>Results                                   | Status   |
|---|----------------------------------|---|--|---|--|--|
| M-149/M-149,<br>Rev 5<br>(1/22/76)              | Air handling<br>unit<br>(Trane)  | Seismic-<br>IEEE Std 344-75*/**   | Paragraph 6.17 (G-7);<br>Section 7.1 (IEEE<br>Std 344-71); Appendix N,<br>Articles 9.0, 11.0 (G-7,<br>Rev 4)<br>E-10, Article 3.0<br>G-321-D 7.0-PAR | M-149-63-4,<br>4/1/77,<br>acceptable                                    | M-149-63-4,<br>4/1/77,<br>acceptable                       | Start Ship:<br>7/1/77A<br>Rerev:<br>Inprocess.<br>NCR 1792   |
|   |                                  | Environmental-<br>IEEE Std 323-74*/**   | Appendix N, Articles 2.0<br>9.0; E-10, Article 3.0<br>(IEEE Std)<br>G-321-D 26.1 PAR<br>G-321-D 26.2 PAR   | See FSAR<br>Table 3.11-4,<br>Test 16.                                   | M-149-56-1,<br>-72-1, and -74-1,<br>10/4/76,<br>acceptable | M-149-66-1,<br>-72-1, and<br>-74-1, 10/4/76,<br>acceptable   |
| M-150/M-150,<br>Rev 7<br>(4/30/76)              | Air filter-<br>ing unit<br>(MSA) | Seismic-<br>IEEE Std 344-75*/**   | Paragraph 6.10 (G-7)<br>Appendix A, Items 1,<br>2, and 3, Page 1<br>G-321-D 7.0-PAR  | M-150-51-4,<br>11/23/76,<br>acceptable                                  | M-150-51-4,<br>11/23/76,<br>acceptable                     | Start Ship:<br>2/15/78A<br>Rerev:<br>Complete.<br>NCR 1793   |
|   |                                  | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 334-74*<br>IEEE Std 334-71**        | Appendix A<br>G-321-D 26.1 PAR<br>G-321-D 26.2 PAR   | M-150-64-4,<br>12/19/78,<br>Level 1                                     | M-150-64-4,<br>12/19/78,<br>Level 1                        |  |
|   |                                  |   |  | M-150-142-2,<br>11/28/78<br>Level 1                                     | Submittal<br>expected by 9<br>12/79                        | Procedures<br>expected by<br>4/20/79.<br>Test results<br>will take<br>8 months<br>according to<br>Wyle lab<br>schedule.      |
|   |                                  |   |  | M-150-145-2<br>5/14/79<br>Level 1<br>(electric heaters<br>and controls) | Submittal<br>expected by 9<br>12/79                        |  |
| M-151A/M-151,<br>Rev 4<br>(10/5/77)             | HVAC<br>subcontract<br>(Zack)    | Seismic-<br>none*   | Paragraphs<br>11.2.2, 1.2.3, 1.3j,<br>6.2, 6.4; C-305,<br>Table 2.1;<br>Appendix G<br>G-321-D 7.0 PAR  |   |  | Start Ship:<br>10/26/77A<br>Rerev: Not<br>required.<br>Telex to<br>vendor 7/11/79<br>requesting<br>seismic<br>qualification. |
|   |                                  | Environmental-<br>none*   |  |   |  |  |

950014

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>                       | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>                     | <u>Qualification<br/>Results</u>                       | <u>Status</u>  |
|---|--|--|--|--|--|--|
| M-154/M-154,<br>Rev 1<br>(9/26/77)                        | HVAC<br>isolation<br>valves<br>(Pacific<br>Air)        | Seismic-<br>IEEE Std 344-75*/**  | Section 3.1, 5.3.1f<br>(IEEE Std 344); Paragraph<br>5.1.1, 6.0, 10.3.3;<br>G-9, Sections 4.2, 7.1<br>(IEEE Std)<br>G-321-D 7.0 PAR     | M-154-38-4,<br>3/20/79,<br>Level 1                     | M-154-38-4,<br>3/20/79,<br>Level 1                     | Start Ship:   9<br>6/29/79A<br>Rerev:<br>Complete          |
|   |  |  |  | M-154-39-3,<br>1/24/79;<br>Level 1                     | M-154-39-3,<br>1/24/79,<br>Level 1                     |  |
|   |  |  |  | M-154-40-3,<br>3/22/79,<br>Level 1                     | M-154-40-3,<br>3/22/79,<br>Level 1                     |  |
|   |  |  |  | M-154-41-3,<br>1/22/79,<br>Level 1                     | M-154-41-3,<br>1/22/79,<br>Level 1                     |  |
|   |  |  |  | M-154-43-3<br>4/9/79,<br>Level 1                       | M-154-43-3<br>4/9/79,<br>Level 1                       |  |
| M-157/M-157,<br>Rev 4<br>(9/20/76)                        | Vane axial<br>fans<br>(Joy)                            | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 382-72*  | Section 3.1, 5.3.1,<br>7.3.4C (IEEE<br>Std 323)<br>G-9, Paragraphs 4.2, 7.1  | M-154-40-3,<br>3/22/79,<br>Level 1                     | M-154-40-3,<br>3/22/79,<br>Level 1                     | See FSAR   9<br>Table 3.11-4<br>Test 16.                   |
|   |  |  |  | M-157-33-1<br>through -39-1,<br>6/15/77,<br>acceptable | M-157-33-1<br>through -39-1,<br>6/15/77,<br>acceptable |  |
| M-163/M-163,<br>Rev 2<br>(11/15/75)                       | Recirculating<br>air cooling<br>units CVI<br>(Penwalt) | Seismic-<br>IEEE Std 344-75*/**  | Paragraphs 3.6, 5.5.10,<br>5.9 (G-7, G-29):<br>Subparagraph 9.2.7d;<br>G-7, Rev 4; G-29, 1.1.1<br>(IEEE Std 344-75)<br>G-321-D 7.0-PAR | M-157-39-1,<br>6/28/78,<br>acceptable                  | M-157-39-1,<br>6/28/78,<br>acceptable                  | Start Ship:<br>3/9/78A<br>Rerev:<br>Inprocess.<br>NCR 1794 |
|   |  |  |  | M-157-24-1<br>through -26-1,<br>5/9/77,<br>Level 1     | M-157-24-1<br>through -26-1,<br>5/9/77,<br>Level 1     |  |
|   |  | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 334-74*<br>IEEE Std 334-71*                    | Section 3.6, 5.5.10,<br>(IEEE 323-74, 334)<br>G-321-D 26.1 PAR<br>G-321-D 26.2 PAR   | M-163-40-2,<br>10/25/77,<br>acceptable                 | M-163-40-2,<br>10/25/77,<br>acceptable                 |  |

950045



| MR/<br>Specification<br>(Original<br>P.O. Date) | Item and<br>Manufacturer  | Issued IEEE<br>Qualification<br>Standards* and<br>FSAR Qualification<br>Commitments**  | Specification<br>Qualification Reference  | Qualification<br>Procedure   | Qualification<br>Results   | Status   |
|---|---|--|---|--|--|--|
|   |   | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 334-74*<br>IEEE Std 334-71**   | Section 4.1.j (IEEE<br>Std); Section<br>6.3.4, 8.3<br>(IEEE Std 323);<br>Section 4.1.j, 7.2.2,<br>(IEEE Std 334-71);<br>G-26; E-10, Paragraphs<br>2.9, 2.10 | M-163-22-2,<br>6/9/77,<br>Level 1<br><br>M-163-48-3,<br>4/7/78,<br>Level 1 | M-163-22-2,<br>6/9/77,<br>Level 1<br><br>M-163-48-3,<br>4/7/78,<br>Level 1 |  |
| M-168/M-168,<br>Rev 6<br>(9/22/76)              | Reactor<br>building<br>isolation<br>18" and 48"<br>valves<br>(H. Pratt) | Seismic-<br>IEEE Std 344-75*/**  | Paragraph 5.3,<br>Appendix A, Article 8.0<br>Appendix C, Appendix H;<br>G-9, Paragraphs 4.2, 7.1<br>(IEEE Std 344-75)                                       | M-168-48-1,<br>9/8/78,<br>Level 1<br><br>M-168-49-1,<br>9/8/78,<br>Level 1 | M-168-48-1<br>9/8/78,<br>Level 1<br><br>M-168-49-1,<br>9/8/78,<br>Level 1  | Start Ship:<br>10/16/78A<br>Rerev:<br>Inprocess.<br>NCR 1795<br>New QTRs<br>issued for<br>M-168-46-1<br>and<br>M-168-47-1<br><br>Letter to<br>vendor 7/17/79<br>asking for<br>functional<br>test documen-<br>tation for<br>18-inch valves. |
|   |   | Environmental-<br>IEEE Std 323-74*/**<br>IEEE Std 382-72*<br>IEEE Std 382-72,<br>Draft 13**<br>(motor operated valves<br>inside containment) | Article 5.1 (G-26)<br>G-9, Section<br>4.2, 7.1 (IEEE Std 382);<br>G-6<br>G-321-D 7.0 PAR<br>G-321-D 26.0 PAR  | M-168-46-1,<br>9/7/78,<br>Level 1<br><br>M-168-47-1,<br>9/7/78,<br>Level 1 | M-168-46-1,<br>9/7/78,<br>Level 1<br><br>M-168-47-1,<br>9/7/78,<br>Level 1 |  |
| M-169/M-169,<br>Rev 2<br>(7/8/77)               | Electric<br>hydrogen<br>recombiners<br>(Westinghouse)                   | Seismic-<br>IEEE Std 344-75*/**  | Paragraphs 6.8, 9.2.7c,<br>Section 4.2 (IEEE Std<br>344-75); G-7, Rev 4;<br>G-6, Rev 4<br>G-321-D 7.0 PAR   | M-169-39-1<br>through -41-1,<br>1/23/78,<br>Level 1                        | M-169-39-1<br>through -41-1,<br>1/23/78,<br>Level 1                        | Start Ship:<br>1/78A<br>Rerev: In-<br>process.<br>NCR 1796   |
|   |   | Environmental-<br>IEEE Std 323-74*/**  | Section 4.2, (IEEE Std<br>323-74)<br>Section 6.2 (RG 1.17)<br>G-26, Rev 1   | M-169-5-2<br>and -6-2,<br>11/1/77,<br>Level 1                              | M-169-5-2<br>and -6-2,<br>11/1/77,<br>Level 1                              |  |

950046

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>                                 | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>              | <u>Qualification<br/>Results</u>                | <u>Status</u>                                     |
|---|--|--|--|---|---|---|
|   |  |  |  | M-169-7-2,<br>1/23/78,<br>Level 1               | M-169-7-2,<br>1/23/78,<br>Level 1               |   |
|   |  |  |  | M-169-8-1<br>and -9-1,<br>9/20/77,<br>Level 5   | M-169-8-1<br>and -9-1,<br>9/20/77,<br>Level 5   | For information<br>only                           |
|   |  |  |  | M-169-10-1<br>and -11-1,<br>9/26/77,<br>Level 5 | M-169-10-1<br>and -11-1,<br>9/26/77,<br>Level 5 | For information<br>only                           |
|   |  |  |  | M-169-18-1,<br>11/10/77,<br>Level 1             | M-169-18-1,<br>11/10/77,<br>Level 1             |   |
| M-180/M-180,<br>Rev 2<br>(5/12/77)                        | Service<br>water self-<br>cleaning<br>strainers<br>(S.P. Kinney) | Seismic-<br>IEEE Std 344-75*/**  | Section 4.1.10 (IEEE<br>Std 344); Paragraphs<br>5.4, 6.5 (G-30);<br>Section 6.8.2 (shafts);<br>Appendix C: Section A2.0<br>(G-30); A2.0;<br>G-30, Rev 0<br>G-321-D 7.0 PAR | M-180-16-5,<br>5/10/78,<br>Level 1              | M-180-16-5,<br>5/10/78,<br>Level 1              | Start Ship:<br>7/15/79A<br>Rerev: In-<br>process. |
|   |  |  |  | M-180-27-3,<br>5/18/78,<br>Level 1              | M-180-27-3,<br>5/18/78,<br>Level 1              |   |
|   |  |  |  | M-180-34-3,<br>5/22/79<br>Level 1               | M-180-34-3<br>5/22/79<br>Level 1                |   |
|   |  | Environmental-<br>IEEE Std 323-74*/**  | Section 4.1.10 (IEEE<br>Std 323-74); Appendix A,<br>Section A3.0, E-10,<br>Section 11.3a (IEEE<br>Std 323-74 and<br>334-74)<br>G-321-D 26.1 PAR<br>G-321-D 26.2 PAR        | M-180-27-3,<br>5/18/78,<br>Level 1              | M-180-27-3,<br>5/18/78,<br>Level 1              | See FSAR<br>Table 3.11-4<br>Test 16.              |
| M-333/M-333,<br>Rev 3<br>(11/26/77)                       | Nuclear<br>service<br>pressure<br>relief valves<br>(Crosby)      | Seismic-none*   9  | Section 2.4, 2.5;<br>Appendix K; Appendix D,<br>2.4<br>G-321-D 7.0-PAR   | M-333-17-2,<br>2/20/79,<br>Level 1              | M-333-17-2,<br>2/20/79,<br>Level 1              | Start Ship:<br>9/7/79F<br>Rerev:<br>Complete      |
|   |  |  |  |   | M-333-16-3<br>7/12/79<br>Level 3                | 9   |

950077

| <u>MR/<br/>Specification<br/>(Original<br/>P.O. Date)</u> | <u>Item and<br/>Manufacturer</u>         | <u>Issued IEEE<br/>Qualification<br/>Standards* and<br/>FSAR Qualification<br/>Commitments**</u> | <u>Specification<br/>Qualification Reference</u>   | <u>Qualification<br/>Procedure</u>       | <u>Qualification<br/>Results</u>   | <u>Status</u>                                |
|---|--|--|--|--|------------------------------------|--|
|   |  | Environmental-<br>none*  | Section 2.0, 3.0;<br>Appendix E; Appendix<br>A, 2.0; Appendix D, 3.0<br>G-321-D 26.1 PAR | M-333-11-1,<br>5/1/78,<br>Level 1        | M-333-11-1,<br>5/1/78,<br>Level 1  |  |
| M-336/M-336,<br>Rev 1<br>(8/8/77)                         | Nuclear wye<br>strainers<br>(Leslie Co.) | Seismic-none*   9  | Attachment F, Sheets<br>1-4; Attachment G  | M-336-27-2,<br>4/26/78,<br>Level 1       | M-336-27-2,<br>4/26/78,<br>Level 1 | Start Ship:<br>4/3/78A<br>Rerev:<br>Complete |
|   |  | Environmental-<br>none*  | Appendix A, Section 3.3,<br>Attachment   | See FSAR<br>Table 3.11-4   9<br>Test 16. |                                    |  |

950048

\*Issued IEEE qualification standard: the latest IEEE qualification standard that was approved and issued on the date the purchase order was executed. For this purpose, the following issue dates were used:

| <u>IEEE Standard</u> | <u>Date Issued</u> |
|----------------------|--------------------|
| 317-72               | 12-1-72            |
| 317-76               | 5-24-76            |
| 323-71               | 4-1-71             |
| 323-74               | 2-28-74            |
| 334-71               | 9-16-71            |
| 334-74               | 10-29-74           |
| 344-71               | 11-17-71           |
| 344-75               | 1-31-75            |
| 382-72               | 4-10-73            |
| 383-74               | 4-15-74            |

\*\*FSAR qualification commitment: any commitment made in the Midland FSAR relative to which IEEE qualification standard(s) would be used in qualifying a particular piece of equipment. If no \*\* is listed, then there is no FSAR commitment with respect to that item. | 9

| <u>Reference</u>                   | <u>Equipment Affected</u>                                      | <u>Commitment</u>               | <u>Effectivity Date</u>        |
|------------------------------------|--|---------------------------------|--------------------------------|
| RG 1.40                            | Containment recirculation air cooler motors                    | IEEE 344-71                     | 3-16-73                        |
| RG 1.48                            | Seismic Category I active pumps and valves                     | IEEE 344-75                     | 7-1-75                         |
| RG 1.52                            | Atmospheric cleanup system air filtration and absorption units | IEEE 323-71<br>334-71<br>344-71 | 6-73                           |
| RG 1.73                            | Class 1E solenoid valves installed inside containment          | IEEE 382-72                     | 4-10-73                        |
|                                    | Class 1E motor operated valves installed inside containment    | IEEE 382-72, draft 13           |                                |
| RG 1.89<br>FSAR Table 3.11-1       | Class 1E equipment   | IEEE 323-74                     | 11-15-74                       |
| RG 1.100<br>FSAR Subsection 3.10.4 | Class 1E equipment   | IEEE 344-75<br>IEEE 344-71      | Not specified<br>Not specified |

659649