



BOSTON EDISON COMPANY

Response to
NRC Bulletin 88-05 and Supplements 1 & 2,
Nonconforming Materials

September 1988

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NRC Bulletin 88-05: Nonconforming Materials Supplied by Piping Supplies, Inc.,
at Folsom, New Jersey and West Jersey Manufacturing
Company at Williamstown, New Jersey

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Response to NRC Bulletin 88-05

1.0 Summary

In response to the NRC Bulletin 88-05, the Boston Edison Company (BECo) implemented a comprehensive and multi-discipline effort at Pilgrim Nuclear Power Station (PNPS) to identify, locate and test material purchased from Piping Supplies, Inc. (PSI) and West Jersey Manufacturing (WJM) Company. This effort was divided into the following five tasks:

- Review purchasing records to identify WJM and PSI supplied flanges and fittings.
- Locate suspect material (i.e., installed in safety related/non-safety related plant systems or stored in the warehouse).
- Test suspect flanges and fittings.
- Analyze test results.
- Maintain a database of suspect flanges and fittings.

In accordance with Supplement 2, issued August 3, 1988, BECo suspended field measurements, testing, records review and preparation of justifications for continued operation (JCOs). When these activities were suspended, BECo's review of purchase orders and material receipt inspection reports included approximately 15,000 items. The record search resulted in the identification of 212 flanges and three caps supplied by WJM and PSI. Fifty-two flanges were located in the plant, 105 flanges and two caps were located in BECo's warehouse and the balance (i.e., 55 flanges and one cap) had not yet been located when Supplement 2 was issued. Table 1 presents a summary of installed and warehouse flanges and fittings (i.e., system, size, pressure rating, etc.).

Seventeen flanges were tested in situ prior to the issuance of Supplement 2. BECo personnel trained in the use of the Equotip Hardness method conducted the in situ tests. All installed flanges tested were found to be acceptable except one. The flange in question had a Brinell Hardness Number (BHN) of 126, slightly less than the acceptable BHN range (i.e., 137 to 187 BHN for ASTM A105). A subsequent engineering evaluation concluded that this flange was acceptable for its intended application and, therefore, does not require replacement.

Thirty flanges from the warehouse were sent to a certified material test laboratory for destructive chemical and mechanical analysis. The chemical analysis included the following elements: carbon, manganese, phosphorous, sulfur and silicon. The mechanical properties included tensile strength (i.e., yield and ultimate), Brinell Hardness, elongation and reduction in area. The lab test results indicated that all flanges were acceptable and exceeded ASTM/ASME code requirements except for three. The tensile strength for those three flanges was slightly less than the allowable of 70,000 psi (i.e., 68,000, 69,500 and 68,000 psi) and one of the three flanges had a yield strength slightly less than the allowable of 36,000 psi (i.e., 35,500 psi, 1.4% below the allowable). In addition, one warehouse flange was tested using the Equotip Hardness method and found acceptable. Thus, a total of 31 warehouse flanges were tested.

A subsequent engineering evaluation indicated that these deviations were not significant and the flanges were, therefore, acceptable for the intended application. All flanges and fittings supplied by WJM and PSI that were found in BECo's onsite warehouse have been removed and are stored in a BECo warehouse offsite. Currently, this material is segregated from other warehouse material and is marked "NRC Bulletin 88-05 Nonconforming Material - Do Not Use."

BECo conducted a review of available industry data and determined that for identified installed flanges and fittings not yet tested at PNPS (as of the issuance of Supplement 2), none are from heat numbers known to have failed hardness testing at other nuclear power stations.

2.0 Overview of NRC Bulletin 88-05 and Supplements

2.1 Bulletin 88-05

The NRC obtained copies of certified material test reports (CMTRs) from PSI and WJM which contained false information concerning the mechanical and chemical properties of flanges and fittings. As stated in the Bulletin: "A number of CMTRs were apparently used to certify that commercial grade, foreign steel meets the requirements of ASME Code Section III, Subarticle NCA 3800, by using a domestic forging company's letterhead." The NRC was unable to locate evidence that PSI or WJM performed the testing required by Section III to upgrade the commercially produced steel for these falsified CMTRs.

The NRC's purchasing records search indicated that WJM and PSI started supplying ASME Code components to the nuclear industry in 1976 and 1985, respectively. WJM and PSI supplied various components (see Table 2) directly to the nuclear industry as well as through intermediate suppliers (see Table 3). Furthermore, the NRC determined that WJM held an ASME Quality System Certificate (QSC-385) as a material manufacturer from November 30, 1979 to November 30, 1985.

As a result of these findings, Bulletin 88-05 was issued on May 6, 1988.

The Bulletin enumerated the following actions: review of purchasing records, determination of the location of WJM and PSI supplied flanges and fittings, testing of suspect materials and development of a document file for NRC inspection. Furthermore, each utility was requested to provide a written report within 120 days of the date of receipt of the Bulletin.

2.2 Supplement 1

Supplement 1, issued on June 15, 1988, reduced the scope of the requested materials review to just flanges and fittings and provided initial test results from Carolina Power and Light (CP&L) Shearon Harris Nuclear Plant. CP&L tested two flanges supplied by WJM, with heat number 7418 (SA-105 material). The test results did not match the CMTRs nor did the flanges meet minimum code requirements. As a result, Supplement 1 requested licensees to initiate and complete the review of purchasing records promptly to commence with in situ testing and to prepare justification for continued plant operation if any deviations were identified. Furthermore, Supplement 1 provided a timetable for in situ testing and the reporting of deviations to the NRC Operations Center.

2.3 Supplement 2

Supplement 2, issued on August 3, 1988, suspended temporarily, the field measurements, testing, records review, and the preparation of JCOs that were requested by Bulletin 88-05 and Supplement 1 until further notice. However, licensees were requested to analyze the test results performed to date. In addition to WJM and PSI, the NRC also identified an affiliated company, Chews Landing Metal Manufacturers, Inc., (CLM) which also appeared to have falsified CMTRs.

3.0 Detailed Response to Requested Actions

The specific response to each of the requested actions enumerated in the NRC Bulletin 88-05 and Supplements 1 and 2 are presented in this section. The action requested in the Bulletin and Supplements is quoted, followed by the BECo response.

3.1 Bulletin and Supplement 1 Action Request 1

- Bulletin Action Request 1

1. Review purchasing records for your facility and determine whether any WJM or PSI supplied ASME Code or ASTM materials have been furnished to your facility. The lists of purchasing and receiving companies given in Attachments 1 and 2 have been developed through the NRC's partial review of PSI and WJM documents. It is emphasized that the NRC has not reviewed all documents; therefore, the review of records should not be limited to the companies on these lists. The records review for PSI supplied material should cover the period since January 1, 1985. The WJM review should cover the period since January 1, 1976.

- Supplement 1 Action Request 1

1. Review of purchasing records may be reduced in scope from ASME and ASTM "materials" to ASME and ASTM "fittings and flanges" and the review should be initiated and completed promptly.¹

¹Based on the discovery by CP&L of nonconforming flanges and on NRC review of records of WJM's production of numerous flanges purportedly from Heat No. 7218, licensees should specifically be alert to identify records for flanges from Heat No. 7218.

BECo Response

BECo's efforts to identify suspect flanges and fittings concentrated on a review of receipt inspection documents. Since "Q" flanges and fittings at PNPS require a receipt inspection for "Quality" documentation, the records search focused on identifying all receipt inspection documents that involved flanges and fittings. Emphasis was placed on "Q" versus "non-Q" flanges and fittings to ensure that components located in safety related systems were promptly identified.

At PNPS, "Q" flanges and fittings are allowed on-site by one of the following three means:

1. receipt inspection through the BECo warehouses,
2. receipt inspection through the onsite Bechtel warehouse (as an agent for BECo), or
3. receipt inspection through an approved contractor's QA program.

1. Receipt Inspection Through The BECo Warehouses

Since January 1, 1976, all "Q" materials received through BECo warehouses have had receipt inspections documented on Material Receipt Inspection Reports (MRIRs). The logs of all MRIRs since January 1, 1976, were reviewed to identify all flanges or fittings. These logs covered approximately 10,680 MRIRs. From January 1, 1976, to December 1985, both "Q" and "non-Q" flanges and fittings were inspected using MRIRs. Since December 1985, MRIRs have been used for "Q" inspections only. Therefore, "non-Q" flanges and fittings prior to December 1985 that passed through the BECo warehouse were reviewed as part of this effort.

Of the 10,680 MRIRs, 682 MRIRs were identified as possibly involving flanges or fittings. These MRIRs were reviewed to determine if the suspect firms were involved (i.e., WJM, PSI or CLM). Only two MRIRs were found which involved 22 flanges supplied by WJM through intermediate suppliers and no flanges or fittings were purchased from either PSI or CLM.

2. Receipt Inspection Through The Q⁺ Bechtel Warehouse

Since December 1982, all materials received through Bechtel's onsite warehouse at PNPS have been documented on Bechtel's Material Receiving Reports (MRRs). The log of all mechanical components requested through the Bechtel warehouse was reviewed to identify all flanges or fittings. This log covered approximately 5250 requests for a variety of mechanical components and materials. The log also identified the purchase order (PO) associated with the material request and whether the material is "Q" or "non-Q". When a material request (and associated PO) was identified as possibly involving flanges or fittings, the PO file was reviewed. These files contain one or more MRRs for each PO (including the associated CMTRs). To date, only "Q" PO files have been researched.

As a result of the records search, 319 "Q" POs (and 514 associated MRRs) were identified as possibly involving flanges or fittings. Each PO and MRR file was reviewed to determine if the suspect firms were involved. Twenty-five (25) MRRs for 22 POs were found to involve flanges or caps supplied by WJM or PSI. All of these components were purchased through Radnor Alloys, Inc., Consolidated Power (also known as Consolidated Piping and Supply) and Standard Pipe and Supply Company, Inc. A total of 3 caps and 160 flanges were identified via this method.

One "non-Q" MRR was also located in the course of the MRR document search which involved 24 flanges supplied by WJM.

3. Receipt Inspection Through An Approved Contractor's QA Program

The final method by which flanges or fittings could be received onsite at PNPS is through the receipt inspection procedures of an approved contractor performing piping system modifications or maintenance for BECo. In order to identify these cases, all POs issued by the BECo Nuclear Organization since January 1, 1979, were reviewed to identify contracts for "Q" mechanical piping work which involved supplying services and materials. "Materials only" POs would have been receipt inspected through the BECo warehouse MRIR process and were therefore omitted from further review. "Services and materials" POs awarded to Bechtel after December, 1982 would have involved receipt inspection through the Bechtel warehouse and therefore, would have been covered by a Bechtel MRR. Therefore, POs awarded to Bechtel after December, 1982 were omitted from further review. Nuclear Organization POs prior to 1979 are stored on microfilm and had not yet been reviewed as of the issuance of Supplement 2.

20 POs were identified that could possibly involve flanges or fittings. Detailed review of these POs (and the receipt inspection or construction documents associated with them) had reached preliminary stages when the records search was suspended. No additional flanges or fittings had been identified via this method.

The remaining six suspect flanges were identified via a computerized records search. BECo's records management database (SEEK) was programmed using various combinations of record types, keywords, dates and record titles to identify all material certifications, CMTRs, etc. This search identified various pre-1976 WJM CMTRs which were not within the scope of the Bulletin.

In summary, BECo's review of purchasing records included the screening of approximately 15,000 items and the detailed review of approximately 1200 receipt inspection documents that potentially involved flanges or fittings. Of these, 29 documents were identified as being associated with receipt inspections of flanges and caps that were supplied by WJM and PSI. No material was identified as having been supplied by CLM.

Based on these 29 receipt inspection documents, a total of 212 flanges and 3 caps were received by PNPS from WJM and PSI (i.e., 102 from WJM and 113 from PSI). These components are comprised of 28 different heat numbers and various sizes and pressure ratings. Since the records search concentrated on receipt of "Q" components, 185 of the 215 flanges and caps identified were used in or were intended for use in "Q" applications.

Steel plate and pipe was also reviewed as a part of this project as well as a review for material supplied by Chews Landing and Philadelphia Steel. Although outside the scope of the Bulletin, BECo chose to include these reviews so that the information would be available if the scope of the Bulletin changed.

At the suspension of records search activities, an estimated 90% of the search had been completed. No flanges or fittings from heat number 7218 were identified at PNPS.

Once a flange or fitting was identified via the records search, the next task was to locate it within the plant or in the warehouses by a variety of methods.

The BECo and Bechtel warehouses were physically walked down to locate and segregate flanges and fittings stamped with WJM or PSI identification stampings. Each flange and fitting was documented as it was located on Nonconformance Reports (NCRs) and QC hold tags were issued.

To locate flanges and fittings installed in the plant, relevant Plant Design Change (PDC) packages associated with the MRR or MRIR were researched. Construction records for the PDCs were reviewed to determine the location of the flanges and fittings in the plant. When readily accessible, the actual stamping on the flange and fitting was verified by physical walkdown. When not readily accessible due to ALARA considerations, installed insulation, staging requirements, etc., stampings were verified when the fitting or flange was tested. Each flange or fitting located in the plant was documented on a NCR and QC hold tags were issued.

When Supplement 2 was issued, 105 flanges and two caps had been located in warehouses and 32 flanges have been located in the plant. Of the flanges and fittings identified to date, 55 flanges and one cap remain to be located. Table 1 indicates the quantities, sizes and ratings of the flanges and caps and the plant systems in which they are located or for which they were purchased.

Attachment 1 presents the data collected for each of the 215 flanges and fittings supplied by WJM and PSI (e.g., intended application, material specification, type of the component, size, pressure rating, chain of purchase, etc).

3.2 Bulletin and Supplement 1 Action Request 2

• Bulletin Action Request 2

2. For ASME Code and ASTM materials furnished by PSI or WJM that are either not yet installed in safety-related systems at your facility or are installed in safety-related systems of plants under construction, the following actions are requested: (perform action a and either action b or c).
 - a. provide a list of WJM- and PSI-supplied materials that are found not to be in conformance with the applicable code requirements or procurement specifications and identify the applications in which these materials are used or will be used. Include the material specification, the nature of the component (e.g., pipe flange), size and pressure rating; also indicate the chain of purchase, and either

- b. Take actions that provide assurance that all received materials comply with ASME Code Section III, ASTM, and applicable procurement specification requirements, or that demonstrate that such materials are suitable for the intended service. For example, this program should include specific verification that austenitic stainless steels have been received in a non-sensitized condition, or,
- c. Replace all questionable fittings and flanges with materials that have been manufactured in full compliance with ASME Code Section III, ASTM, and the applicable procurement specification requirements.

• Supplement 1 Action Request 2

2. The scope of paragraph 2 of Bulletin 88-05 is reduced from ASME and ASTM "materials" to ASME and ASTM "flanges and fittings." All other provisions of paragraph 2 of Bulletin 88-05 remain in effect.

BECo Response

In response to Action Request 2a, BECo conducted chemical and mechanical tests to determine if any flanges and fittings found in the warehouse were nonconforming. As a result of these tests, three flanges (i.e., components 7.01, 7.02 and 7.03) were identified which did not meet the code requirements. Table 4 presents the information requested in Action Request 2a.

Lab test results for components 7.01, 7.02 and 7.03 indicated that component 7.01 was slightly less than the yield strength allowable of 36,000 psi (i.e., 35,500 psi, 1.4% below the allowable) and that the tensile strength for components 7.01, 7.02 and 7.03 was slightly less than the allowable of 70,000 psi (i.e., 68,000, 69,500 and 68,000 psi, respectively). Note that these three flanges were from the same heat number (i.e., CKS).

A subsequent engineering evaluation indicated that these deviations were not significant and the flanges would, therefore, be acceptable for the intended application.

In response to Action Request 2b, at the time Supplement 2 was issued, BECo had sent 30 of the 107 flanges and fittings located in the warehouse to a testing laboratory for detailed chemical and mechanical analysis. The chemical analysis included the following elements: carbon, manganese, sulfur, phosphorous and silicon. The mechanical properties included tensile strength (i.e., yield and ultimate), Brinell Hardness, elongation and reduction in area. The testing lab used ASTM E30 for the chemical analysis and ASTM A370 for the mechanical testing. In addition, one warehouse flange was tested using the Equotip Hardness method and found acceptable. Thus, a total of 31 warehouse flanges were tested.

Table 5 presents a comparison between the CMTR values and those obtained in the lab test. These tests were used to provide assurance that all received materials comply with ASME Code Section III, ASTM and applicable procurement specification requirements. For detailed information, refer to the appropriate component number in Attachment 1.

In response to Action Request 2c, all WJM and PSI flanges and fittings found in the PNPS warehouses have been removed and stored in a separate BECO warehouse off-site. These flanges and fittings have been segregated from other warehouse material and have been marked "NRC Bulletin 88-05 Nonconforming Material -- Do Not Use." This material is available for NRC inspection.

3.3 Bulletin and Supplement 1 Action Request 3

- Bulletin Action Request 3

3. For ASME Code and ASTM materials furnished by WJM or PSI already installed in safety related systems in operating plants, the following actions are requested:
 - a. Provide a list of the WJM- and PSI-supplied materials that are found not to be in conformance with the applicable code requirements or procurement specifications and identify the applications in which the materials are used. Include the material specification, the nature of the component (e.g., pipe flange), size, and pressure rating; also indicate the chain of purchase.
 - b. Take actions requested in 2b or 2c above. However, an evaluation should be undertaken prior to replacing questionable material in accordance with 2c above that considers the occupational radiation exposure that would be received during the replacement process. This evaluation should be considered in developing the method and timing of material replacements.
 - c. Document and maintain for inspection a basis for continued plant operation if the program requested in item 3b has not been completed within 120 days of the date of receipt of this bulletin.

- Supplement 1 Action Request 3

3. The scope of paragraph 3 of Bulletin 88-05 is reduced from ASME and ASTM "materials" to ASME and ASTM "flanges and fittings." For ASME and ASTM flanges and fittings furnished by PSI or WJM already installed in safety-related systems in operating plants, the following actions are requested:
 - a. Commence appropriate testing of accessible flanges and fittings promptly to identify conformance of materials to ASME and ASTM material specifications. Test results for flanges and fittings reported to be from the same heat should be compared for consistency and for conformance to the ASME/ASTM specifications and to values listed on material CMTRs. Any deviation from the specification requires an appropriate analysis justifying continued operation.

- b. If any inaccessible flanges or fittings are identified, an analysis must be performed justifying continued operation.
- c. All other provisions of paragraph 3 of Bulletin 88-05 remain in effect.

BECo Response

In response to Bulletin Action Request 3a and 3b, BECo conducted in situ testing to determine which installed flanges and fittings were nonconforming. As a result of these tests, one flange (i.e. component 13.09) was identified which did not meet the code requirements based on the Equotip Hardness method. Component 13.09 represents a two inch ASTM A105 flange in the salt service water (SSW) pump cross-connect header. Table 6 presents the information requested in Bulletin Action Request 3a.

Component 13.09 tested at 126 Brinell Hardness Number (BHN) based on the Equotip Hardness method. This was outside the 137 -187 BHN acceptance range. The heat number recorded on the CMTR and stamped on the flange was COX.

A subsequent engineering evaluation determined that this deviation was not significant and that the flange was acceptable for this application. The NRC Operations Center was notified on August 3, 1988, in accordance with the Bulletin.

In response to Supplement 1 Action Request 3a, 17 of the 52 installed flanges and fittings had been tested using the Equotip Hardness method. Testing was subsequently suspended per Supplement 2.

Temporary Procedure (TP)88-39 (see Attachment 2) was issued to control the testing of installed flanges and fittings. This procedure included a table for converting the Equotip Hardness values to Brinell Hardness Numbers. Prior to in situ testing, BECo personnel were trained in the use of the Equotip Hardness method. Training consisted of a minimum of one half hour verbal instruction using Temporary Procedure (TP)88-39 and testing flanges which had been previously tested at the laboratory. Table 7 compares the results of the Equotip qualifying tests and the lab results.

The results of the in situ testing are presented in Table 8. All installed flanges tested fell within the acceptance range (i.e., 137 to 187 BHN) except for component 13.09 discussed previously.

In response to Supplement 1 Action Request 3b, total of six flanges were inaccessible for in situ testing. Four 22" ASTM A105 150# flanges in a buried section of the SSW piping ("B" loop). Two 2" 900# flanges, one on each scram discharge volume standpipe were located in a high radiation area.

The four SSW flanges are heat number 9321, supplied by PSI. Destructive test results for thirteen unused flanges in the warehouse from the same purchase order and heat number were used to assess mechanical and chemical properties of heat number 9321. The average yield strength for these 13 lab tests was 45,231 psi and ultimate strength was 75,692 psi (refer to Table 5, heat number 9321 for detailed results). Furthermore, an in situ test was performed on one accessible SSW flange from the same lot. A Brinell Hardness of 185 was found using the Equotip Hardness method (see Attachment 1, component 1.04).

The two scram discharge flanges from heat number 37862, supplied by WJM, are considered inaccessible due to ALARA considerations. In situ testing was performed on the four exposed scram discharge volume flanges installed from the same lot. Brinell Hardness readings of 148, 144, 141 and 153 were found using the Equotip Hardness method (see Attachment 1, component numbers 9.01, 9.02, 9.04 and 9.05). These results are well within the acceptable range (i.e., 137 to 187 BHN). There were no flanges located in the warehouse with similar heat numbers for destructive testing.

Subsequent engineering evaluations indicated that the four inaccessible SSW flanges and the two inaccessible scram discharge volume flanges were acceptable for these applications. In accordance with the Bulletin, the NRC Operations Center was notified on July 28, 1988, concerning all six flanges.

In response to Bulletin Action Request 3c, the basis for continued plant operation is presented in the disposition of Nonconformance Reports (NCRs) 88-54, 88-60 and 88-62. All documentation associated with this Bulletin is available for NRC inspection.

3.4 Bulletin Action Request 4

4. For any PSI or WJM supplied materials having suspect CMTRs and used in systems that are not safety-related, take actions commensurate with the function to be performed.

BECo Response

Emphasis was placed on safety related components in an effort to locate these materials as quickly as possible. However, during our search for "Q" flanges and fittings, some "non-Q" material was identified. At the time Supplement 2 was issued, 21 non-Q flanges were located in the warehouse. These flanges have been removed from PNPS, and stored in a BECo warehouse offsite. This material is segregated from other warehouse material and is marked "NRC Bulletin 88-05 Nonconforming Material - - Do Not Use." Also, six flanges were purchased "Q" but were installed in the "non-Q" Augmented Offgas System.

3.5 Bulletin Action Request 5 and Supplement 2 Action Request 2

- Bulletin Action Request 5
 5. Maintain for inspection the documentation of the specific actions taken for the identified materials.
- Supplement 2 Action Request 2
 2. Addressees are requested to maintain for inspection the documentation of the specific actions taken for the identified material.

BECo Response

All relevant documents have been assembled in a project file and are available for inspection.

3.6 Bulletin Action Request 6

6. For operating plants, all scheduled actions should be completed before a restart from the next major outage starting after 180 days from the date of receipt of this bulletin. For plants under construction all scheduled actions and the reporting required by (Reporting Requirement) 2 should be completed prior to the planned fuel load date. If any addressee cannot meet this schedule, they should justify to the NRC their proposed alternative schedule.

BECo Response

This report provides the status of Bulletin 88-05 activities up through the issuance of Supplement 2. Pursuant to Supplement 2, BECo has suspended field measurements, testing, records review and preparation of JCOs. All relevant documents have been assembled in a project file and are available for inspection.

3.7 Supplement 1 Action Request 4

4. For flanges and fittings already identified as having been supplied by PSI or WJM, the actions requested in 3a and 3b above are to be completed within 30 days of receipt of this supplement. For flanges and fittings identified after receipt of this supplement, the actions requested in 3a and 3b above are to be completed within 30 days of identifying the flanges or fittings as being supplied by PSI and WJM.

BECo Response

Prior to the issuance of Supplement 1, no flanges or fittings had been located in any plant systems. However, 29 flanges had been located in the warehouse and were undergoing destructive testing. The warehouse material was located on June 20, 1988, and testing was completed on June 29, 1988.

Prior to conducting any in situ testing, it was necessary to develop and approve a test procedure and to train and qualify test personnel. BECo attended the NUMARC/EPRI Equotip Hardness Testing Workshop on June 29, 1988, to ensure that our data would be consistent with the industry. The information presented at the Workshop formed the basis for developing the test procedure and for using the Equotip Hardness Tester. The PNPS temporary procedure (TP)88-39 was first issued on July 8, 1988, and revised on July 15, 1988, to include a temperature correction curve (see Attachment 2).

This procedure requires the test personnel be trained and qualified in the use of the Equotip method. This training consisted of a minimum one-half hour of verbal instruction and demonstrated proficiency with the Equotip tester by conducting a minimum of five hardness impacts on a sample flange. Three BECo individuals were trained on July 14, 1988, and two more were trained on July 18, 1988.

Seven installed flanges were located on June 22, 1988, and in situ tests were conducted between July 21 and July 22, 1988. Subsequently, three installed flanges located on June 27, 1988, were tested between July 20 and July 21, 1988. Finally, the seven installed flanges located on July 8, 1988, were tested on August 2, 1988. In each case, in situ testing was completed within the 30 day time limit specified in Supplement 1.

On July 28, 1988, six flanges were classified as inaccessible (four in the Salt Service Water System and two in the scram discharge volume). The NRC Operations Center was notified on July 28, 1988. The engineering evaluation justifying continued operation for the four salt service water flanges was completed on August 1, 1988. The second engineering evaluation for the two scram discharge volume flanges was completed on August 4, 1988. In both cases, these evaluations were completed within the 30 day time limit specified in Supplement 1.

3.8 Supplement 1 Action Request 5 and Supplement 2 Action Request 3

- Supplement 1 Action Request 5
 5. Addressees are requested to retain nonconforming materials until advised further by the NRC. Nonconforming materials should be segregated to ensure that they are not inadvertently used.
- Supplement 2 Action Request 3
 3. Addressees are requested to retain nonconforming materials until advised further by the NRC.

BECo Response

All flanges and fittings supplied by WJM and PSI found in BECo's warehouse have been removed from PNPS and are stored in a BECo warehouse offsite. Currently, this material is segregated from other warehouse material and is marked "NRC Bulletin 88-05 Nonconforming Material - Do Not Use."

These flanges are available for NRC inspection.

3.9 Supplement 1 Action Request 6 and Supplement 2 Action Request 4

- Supplement 1 Action Request 6

6. Addressees are encouraged to report the results of tests of PSI and WJM supplied flanges and fittings to the INPO Nuclear Network for dissemination to the industry.

- Supplement 2 Action Request 4

4. Addressees are encouraged to report the results of tests of PSI and WJM supplied flanges and fittings to the INPO Nuclear Network for dissemination to the industry.

BECo Response

All BECo test results were provided to NUMARC to support the industry database. The INPO Nuclear Network was used to report the preparation of three JCO's: two for inaccessible flanges and one for the flange which was slightly below the acceptance range for in situ testing.

3.10 Supplement 2 Action Request 1

1. Addressees that have not received a full power operating license are requested to continue the records review and the in situ testing of installed flanges and fittings.

BECo Response

Since PnPS has an operating license, no response to this action request is necessary.

TIME: 11:45:17
DATE: 06/11/06

TABLE 1
NRC BULLETIN 06-05
SYSTEM SUMMARY REPORT

| SYSTEM DESCRIPTION ⁽¹⁾ | SIZE (IN.) | PRESSURE | TYPE | TOTAL QTY. | WAREHOUSE | | | INSTALLED IN PLANT | | | | NOT YET FOUND |
|--|------------|-----------|------|------------|-----------|------------|--------|--------------------|------------|--------------|--------|---------------|
| | | | | | QTY. | ACCESSIBLE | TESTED | QTY. | ACCESSIBLE | INACCESSIBLE | TESTED | |
| NO SYSTEM ASSIGNED | 1 | 150 | FLB | 4 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 1 |
| NO SYSTEM ASSIGNED | 1 | 300 | FLB | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NO SYSTEM ASSIGNED | 1 | 600 | FLB | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 |
| NO SYSTEM ASSIGNED | 1 | 1500 | FLB | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| NO SYSTEM ASSIGNED | 2 | 150 | FLB | 31 | 22 | 22 | 1 | 0 | 0 | 0 | 0 | 9 |
| NO SYSTEM ASSIGNED | 4 | 300 | FLE | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| NO SYSTEM ASSIGNED | 8 | 150 | FLB | 7 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 2 |
| NO SYSTEM ASSIGNED | 12 | 600 | FLB | 6 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 4 |
| NO SYSTEM ASSIGNED | *** | SUB-TOTAL | *** | 66 | 46 | 46 | 16 | 0 | 0 | 0 | 0 | 20 |
| MAIN STEAM | 6 | 150 | FLB | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| MAIN STEAM | 18 | 300 | FLB | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| MAIN STEAM | *** | SUB-TOTAL | *** | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONTROL ROD DRIVE & HYDRAULIC SYSTEM | 2 | 900 | FLB | 6 | 0 | 0 | 0 | 6 | 4 | 2 | 4 | 0 |
| CONTROL ROD DRIVE & HYDRAULIC SYSTEM | *** | SUB-TOTAL | *** | 6 | 0 | 0 | 0 | 6 | 4 | 2 | 4 | 0 |
| AUGMENTED OFF-GAS | 8 | 150 | FLB | 6 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 |
| AUGMENTED OFF-GAS | *** | SUB-TOTAL | *** | 6 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 |
| PRIMARY CONTAINMENT ATMOSPHERE CONTROL | 8 | 150 | FLB | 13 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0 |
| PRIMARY CONTAINMENT ATMOSPHERE CONTROL | *** | SUB-TOTAL | *** | 13 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0 |
| RESIDUAL HEAT REMOVAL SYSTEM | 3 | 150 | FLB | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| RESIDUAL HEAT REMOVAL SYSTEM | 4 | 0 | CAF | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| RESIDUAL HEAT REMOVAL SYSTEM | 4 | 150 | FLB | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 0 |
| RESIDUAL HEAT REMOVAL SYSTEM | 4 | 300 | FLB | 6 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 2 |
| RESIDUAL HEAT REMOVAL SYSTEM | 8 | 150 | FLB | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 0 |
| RESIDUAL HEAT REMOVAL SYSTEM | *** | SUB-TOTAL | *** | 19 | 6 | 6 | 0 | 4 | 4 | 0 | 4 | 9 |
| REACTOR CORE ISOLATION COOLING SYSTEM | 3 | 600 | FLB | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| REACTOR CORE ISOLATION COOLING SYSTEM | 8 | 150 | FLB | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| REACTOR CORE ISOLATION COOLING SYSTEM | *** | SUB-TOTAL | *** | 4 | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 |
| HIGH PRESSURE COOLANT INJECTION SYSTEM | 10 | 600 | FLB | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 |
| HIGH PRESSURE COOLANT INJECTION SYSTEM | 20 | 150 | FLB | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| HIGH PRESSURE COOLANT INJECTION SYSTEM | *** | SUB-TOTAL | *** | 4 | 0 | 0 | 0 | 4 | 4 | 0 | 1 | 0 |
| SALT SERVICE WATER SYSTEM | 2 | 150 | FLB | 3 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| SALT SERVICE WATER SYSTEM | 3 | 150 | FLB | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

(1) "NO SYSTEM ASSIGNED" indicates that either the fittings have not been physically located in the plant or the fittings are in the warehouse

TIME: 11:45:17
 DATE: 06/31/00

TABLE 1 (CONT.)
 NRC BULLETIN 00-05
 SYSTEM SUMMARY REPORT

| SYSTEM DESCRIPTION ⁽¹⁾ | SIZE (IN.) | PRESSURE | TYPE | TOTAL QTY. | WAREHOUSE | | | INSTALLED IN PLANT | | | | NOT YET FOUND | |
|-----------------------------------|---------------|----------|-----------|---------------|-----------|------------|--------|--------------------|------------|--------------|--------|------------------|----|
| | | | | | QTY. | ACCESSIBLE | TESTED | QTY. | ACCESSIBLE | INACCESSIBLE | TESTED | | |
| SALT SERVICE WATER SYSTEM | 6 | 150 | FLB | 3 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | |
| SALT SERVICE WATER SYSTEM | 12 | 150 | FLB | 41 | 33 | 33 | 1 | 5 | 5 | 0 | 5 | 3 | |
| SALT SERVICE WATER SYSTEM | 22 | 150 | FLB | 18 | 13 | 13 | 13 | 5 | 1 | 4 | 1 | 0 | |
| SALT SERVICE WATER SYSTEM | *** | *** | SUB-TOTAL | *** | 67 | 48 | 48 | 14 | 12 | 8 | 4 | 8 | 7 |
| CONTAINMENT AND REACTOR SYSTEM | 18 | 300 | FLB | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | |
| CONTAINMENT AND REACTOR SYSTEM | 20 | 150 | FLB | 4 | 1 | 1 | 1 | 3 | 3 | 0 | 0 | 0 | |
| CONTAINMENT AND REACTOR SYSTEM | *** | *** | SUB-TOTAL | *** | 24 | 1 | 1 | 1 | 3 | 3 | 0 | 0 | 28 |
| | **** | **** | TOTAL | **** | 215 | 187 | 187 | 31 | 52 | 46 | 6 | 17 | 56 |

(1) "NO SYSTEM ASSIGNED" indicates that either the fittings have not been physically located in the plant or the fittings are in the warehouse

Table 2¹

Product Forms Sold by WJM/PSI/Chews Landing²

Flanges
Half Couplings
Full Couplings
Plate Rings
Penetration Places -- SA516, GR70
Seal Plates - SA516, GR70 (Perry)³
Socket Weld Nozzles (CLM)⁴
Long Drain Boss - A182F11 & F22
Radiograph Plugs (CLM)
Square Bar - 1018
Spacers
Sample Probes Class 1 - SA312, T304 (Perry) (CLM)
Guide Lugs - SA240, T304
Socket Welded Half Couplings Class 1 - SA182, F304L (Vogtle)
Special Nozzles
Pipe Caps - SA234
Lugs - SA240, T304 (Palo Verde)
Lugs - SA516, (Palo Verde)
Socket Weld Couplings
Plate - SA36 (Perry)
Special Boss - A234, A105, A739
Bolts - SA193, GR70 (Confrentes/Spain)
Instrument Penetration End Plate - SA516, GR70 (Perry)
Hanger Lugs - SA516, GR70 (Dravo/Site unknown)
Socket Weld Boss - Class 1 - SA182, F316 (Seabrook) (CLM)
Transition Piece - SA105 (Vogtle)
Thermowells - A182 (Dravo/Hunter/Site unknown)
Bar Stock - A105 (Dravo/Yello Creek) (CLM)

Notes:

¹This information was drawn from NRC Bulletin 88-05 Supplement 2, Attachment 2.

²This is a complete list of all product forms identified during the NRC staff's review of available records.

³Specific nuclear power plants or customers are noted in cases where the product form appeared to be a unique or special order and not wide spread.

⁴Indicates that material was sold by Chews Landing Metal Manufacturers, Inc.

Table 3¹

Known and Intended Recipients of Carbon and Stainless Steel Material Furnished by PSI and WJM.

Standard
Babcock & Wilcox
Baldwin Associates
Barr - Saunders, Inc.
Bechtel Power Corp.
Bellows
Louis P. Canuso
Capitol Pipe & Steel
Cherne Construction Company
Chicago Tube & Iron
Conax
Consolidated Power²
Daniel
Dravo Corp.
Dubose
General Electric
Gulfalloy
Guyon Alloys, Inc.
Hub Incorporated
ITT Grinnell
Joliet Valves, Inc.
M.W. Kellogg (became Division of Pullman)
Lake Erie Iron & Metal Company, Inc.
Liberty Equipment Company
McJunkin
Metal Bellows
Osborne Brothers Welding Supply
Power Piping Company
Pullman Power Products
Radnor Alloys, Inc.
Standard Pipe Supply Company, Inc.
Tioga Pipe Supply Company, Inc.
Tyler Dawson

Notes:

¹This information was drawn from NRC Bulletin 88-05, Attachments 1 and 2 and Supplement 2, Attachment 4.

²Consolidated Power is also known as Consolidated Piping and Supply located in Birmingham, Alabama, Furlong, Pa., and Charlotte, N.C.

TABLE 4

MPC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 7.01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

MCR: 88-043 M01: 04791 POC: 06-98 MO: NR10 WITHDRAWAL REQ.: NR10 TASK: 87-090-00

DESCRIPTION

TYPE: FLG SIZE (IN.): 1 PRESSURE: 100 HEAT TREATMENT: AS CATEGORY: RF 5# SCHEDULE: 16# ASME CLASS: GRADE:
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: W-WAREHOUSE, P-PLANT B: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1 DATE 1: 1 VENDOR2: HARDOR ALLOYS, INC. P.O. 2: 0A-96315-0 DATE 2: 1
 VENDOR3: BECHTEL P.O. 3: 17049-1M-07210 DATE 3: 1 VENDOR4: 1 P.O. 4: 1 DATE 4: 1

MATERIAL CERTIFICATION

DATA DATE: 07/30/87 HEAT NUMBER: 001 SPECIFICATION: S410S
 CAR: 0.200 MAN: 1.350 PHOS: 0.021 SUL: 0.016 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.350
 TENSILE: 80,923 YIELD: 50,000 ELONGATION: 20.7 REDUCTION: 59.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1 DATE COMPLETED: 1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP6: EQUOTIP AVERAGE:
 HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
 CAR: 0.190 MAN: 1.190 PHOS: 0.015 SUL: 0.026 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
 TENSILE: 60,000 YIELD: 35,500 ELONGATION: 23.0 REDUCTION: 51.0 HARDNESS: 137 EQUOTIP AVG.:

REMARKS

- ** Automatically calculated by the Database. DO NOT ENTER.
- ** FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLS-Plug, RED-Reducer, SWG-Swage
- ** ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- ** R-Flined, RW-Rott Weld, FF-Flat Face, L3-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WB-Welding Neck

TABLE 4

MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 7.82 LAST UPDATED: 6/20/88 DATE IDENTIFIED: 6/20/88 30-DAY ACTION DATE: 7/20/88

DOCUMENTATION

NCR: 88-84J M01: 84271 POC: 86-98 M0: M01E: WITHDRAWAL REQ.: M0B: 21748 TASK: 87-898.88

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 688 HEAT TREATMENT: CATEGORY: AF 5M SCHEDULE: 168 ASME CLASS: GRADE:
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: W WAREHOUSE, P-PLANT Q: I (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR: PSI P.O. 1: 1/1 VENDOR: RAYBOR ALLOYS, INC. P.O. 2: 88-96315-M DATE 2: 1/1
 VENDOR: BECHTEL P.O. 3: 17849-FW-67218 VENDOR: P.O. 4: DATE 4: 1/1

MATERIAL CERTIFICATION

DATE: 07/30/87 HEAT NUMBER: CX5 SPECIFICATION: S A105
 CAR: 0.200 MAN: 1.358 PHOS: 0.021 SUL: 0.016 MIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.350
 TENSILE: 88.223 YIELD: 58.888 ELONGATION: 29.7 REDUCTION: 59.8 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: 6/20/88 DATE RESULTS RECEIVED: 07/01/88
 CAR: 0.198 MAN: 1.168 PHOS: 0.038 SUL: 0.027 MIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.298
 TENSILE: 69.508 YIELD: 37.508 ELONGATION: 27.8 REDUCTION: 55.8 HARDNESS: 137 EQUOTIP AVG.:

REMARKS

- 1. Automatically calculated by the Database. DO NOT ENTER.
- 2. FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3. ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4. B=Blind, BW=Butt Weld, FF=Flat Face, L=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

TABLE 4

WRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 7.03 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

NCR: 02-043 NRI: 06291 PDC: 06-98 MR: 0619 WITHDRAWAL REQ.: MR0: 21700 TASK: 07-070.00

DESCRIPTION

TYPE: FLB SIZE (IN.): 1 PRESSURE: 600 HEAT TREATMENT: AS SUP SCHEDULE: 100 ASME CLASS: GRABE
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (M-WAREHOUSE, P-PLANT) D: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1/1 WORM2: BARBER ALLOYS, INC. P.O. 2: 08-96315-M DATE 2: 1/1
 VENDOR2: BECHTEL P.O. 3: 17040-FM-67210 DATE 3: 1/1 VENDOR4: 1/1 P.O. 4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 07/08/87 HEAT NUMBER: 003 SPECIFICATION: S410S
 CAR: 0.200 MAN: 1.250 PHOS: 0.021 SUL: 0.016 NIT: 0.000 CMB: 0.000 MOL: 0.000 SIL: 0.350
 TENSILE: 00,023 YIELD: 50,000 ELONGATION: 28.7 REDUCTION: 59.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP6: EQUOTIP AVERAGE:
 HARDNESS: 0 TENSILE:

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
 CAR: 0.200 MAN: 1.140 PHOS: 0.031 SUL: 0.024 NIT: 0.000 CMB: 0.000 MOL: 0.000 SIL: 0.290
 TENSILE: 60,000 YIELD: 37,000 ELONGATION: 30.0 REDUCTION: 63.0 HARDNESS: 131 EQUOTIP AVG.:

REMARKS

- 01 Automatically calculated by the Defacase. DO NOT ENTER.
- 02 FLB-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWB-Swage
- 03 ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- 04 RL-Blind, RW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WW-Welding Neck

DATE: 08/31/88
 TIME: 11:21:17

TABLE 5
 SUMMARY OF LAB TEST RESULTS

| COMPONENT NUMBER | HEAT NUMBER | SOURCE | CAR | MAN | PHOS | SUL | SIL | TENSILE | YIELD | ELONGATION | REDUCTION | HARDNESS |
|--|-------------|----------|-------|-------|-------|-------|-------|---------|--------|------------|-----------|----------|
| 2.01 | 16472 | CNTR LAB | 0.200 | 0.920 | 0.023 | 0.027 | 0.200 | 74,927 | 43,333 | 28.0 | 53.0 | 143 |
| | | | 0.260 | 0.950 | 0.029 | 0.035 | 0.290 | 74,000 | 42,600 | 27.0 | 67.0 | |
| * * * * AVERAGE TEST DATA FOR HEAT: 16472 (QUANTITY: 3) * * * * | | | | | | | | | | | | |
| | | CNTR LAB | 0.200 | 0.920 | 0.023 | 0.027 | 0.200 | 74,927 | 43,333 | 28.0 | 53.0 | 143 |
| | | | 0.260 | 0.950 | 0.029 | 0.035 | 0.290 | 74,000 | 42,600 | 27.0 | 67.0 | |
| 1.01 | 9321 | CNTR LAB | 0.240 | 0.960 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 152 |
| | | | 0.230 | 0.920 | 0.025 | 0.017 | 0.200 | 77,000 | 44,900 | 27.0 | 65.0 | |
| 1.02 | 9321 | CNTR LAB | 0.240 | 0.960 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 148 |
| | | | 0.165 | 0.950 | 0.010 | 0.034 | 0.260 | 71,500 | 39,000 | 32.0 | 67.0 | |
| 1.03 | 9321 | CNTR LAB | 0.240 | 0.960 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 146 |
| | | | 0.270 | 0.930 | 0.026 | 0.027 | 0.260 | 76,000 | 43,400 | 26.0 | 65.0 | |
| 6.01 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 149 |
| | | | 0.220 | 1.310 | 0.031 | 0.009 | 0.290 | 76,500 | 47,700 | 29.0 | 70.0 | |
| 6.02 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 149 |
| | | | 0.220 | 1.190 | 0.026 | 0.030 | 0.200 | 73,000 | 45,600 | 31.0 | 75.0 | |
| 6.03 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 149 |
| | | | 0.260 | 1.170 | 0.019 | 0.012 | 0.240 | 74,500 | 45,500 | 30.0 | 71.0 | |
| 6.04 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 153 |
| | | | 0.260 | 1.230 | 0.022 | 0.014 | 0.240 | 77,000 | 43,400 | 31.0 | 71.0 | |
| 6.05 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 149 |
| | | | 0.340 | 1.170 | 0.010 | 0.015 | 0.240 | 77,000 | 46,500 | 32.0 | 72.0 | |
| 6.06 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 143 |
| | | | 0.350 | 1.140 | 0.014 | 0.013 | 0.210 | 74,500 | 45,000 | 30.0 | 72.0 | |
| 6.07 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 146 |
| | | | 0.200 | 1.160 | 0.020 | 0.015 | 0.230 | 70,000 | 49,100 | 29.0 | 72.0 | |
| 6.08 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 152 |
| | | | 0.310 | 1.200 | 0.010 | 0.012 | 0.220 | 76,500 | 47,300 | 31.0 | 72.0 | |
| 6.09 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 152 |
| | | | 0.300 | 1.260 | 0.010 | 0.025 | 0.230 | 75,000 | 43,100 | 30.0 | 73.0 | |
| 6.10 | 9321 | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 146 |
| | | | 0.270 | 1.260 | 0.015 | 0.010 | 0.230 | 77,000 | 46,700 | 28.0 | 72.0 | |
| * * * * AVERAGE TEST DATA FOR HEAT: 9321 (QUANTITY: 13) * * * * | | | | | | | | | | | | |
| | | CNTR LAB | 0.240 | 0.950 | 0.030 | 0.040 | 0.220 | 73,225 | 44,300 | 23.0 | 31.0 | 148 |
| | | | 0.250 | 1.159 | 0.020 | 0.019 | 0.246 | 75,692 | 45,231 | 29.0 | 70.5 | |
| 7.05 | AAZ-04 | CNTR LAB | 0.250 | 0.730 | 0.015 | 0.010 | 0.210 | 70,335 | 30,504 | 32.0 | 50.0 | 152 |
| | | | 0.200 | 1.350 | 0.016 | 0.022 | 0.230 | 77,500 | 40,500 | 26.5 | 60.0 | |
| 7.06 | AAZ-04 | CNTR LAB | 0.250 | 0.730 | 0.015 | 0.010 | 0.210 | 70,335 | 30,504 | 32.0 | 50.0 | 159 |
| | | | 0.170 | 1.350 | 0.024 | 0.045 | 0.240 | 70,000 | 46,000 | 27.0 | 70.0 | |
| * * * * AVERAGE TEST DATA FOR HEAT: AAZ-04 (QUANTITY: 2) * * * * | | | | | | | | | | | | |
| | | CNTR LAB | 0.250 | 0.730 | 0.015 | 0.010 | 0.210 | 70,335 | 30,504 | 32.0 | 50.0 | 156 |
| | | | 0.185 | 1.350 | 0.020 | 0.034 | 0.235 | 77,750 | 47,250 | 26.0 | 69.0 | |

DATE: 08/31/88
 TIME: 11:21:17

TABLE 5 (CONT.)
 SUMMARY OF LAB TEST RESULTS

| COMPONENT NUMBER | HEAT NUMBER | SOURCE | CAR | MAN | PHOS | SUL | SIL | TENSILE | YIELD | ELONGATION | REDUCTION | HARDNESS | |
|------------------|-------------|----------|--|----------------|----------------|----------------|----------------|------------------|------------------|--------------|--------------|----------|--|
| 4.01 | CBL | CMTR LAB | 0.220 0.210 | 1.020 1.160 | 0.008 0.022 | 0.028 0.017 | 0.290 0.350 | 71,792 82,000 | 48,231 51,500 | 34.0 25.0 | 56.0 67.0 | 166 | |
| 4.02 | CBL | CMTR LAB | 0.220 0.220 | 1.020 1.180 | 0.008 0.015 | 0.028 0.024 | 0.290 0.340 | 71,792 79,000 | 48,231 52,500 | 34.0 23.0 | 56.0 64.0 | 149 | |
| 4.03 | CBL | CMTR LAB | 0.220 0.220 | 1.020 1.120 | 0.008 0.025 | 0.028 0.019 | 0.290 0.330 | 71,792 81,000 | 48,231 50,000 | 34.0 23.0 | 56.0 64.0 | 156 | |
| 4.04 | CBL | CMTR LAB | 0.220 0.220 | 1.020 1.180 | 0.008 0.015 | 0.028 0.025 | 0.290 0.320 | 71,792 69,500 | 48,231 52,500 | 34.0 23.0 | 56.0 62.0 | 159 | |
| 4.05 | CBL | CMTR LAB | 0.220 0.210 | 1.020 1.150 | 0.008 0.021 | 0.028 0.020 | 0.290 0.330 | 71,792 76,000 | 48,231 52,500 | 34.0 24.5 | 56.0 60.0 | 156 | |
| 4.06 | CBL | CMTR LAB | 0.220 0.230 | 1.020 1.210 | 0.008 0.017 | 0.028 0.021 | 0.290 0.330 | 71,792 79,000 | 48,231 47,500 | 34.0 28.5 | 56.0 63.0 | 156 | |
| 4.07 | CBL | CMTR LAB | 0.220 0.220 | 1.020 1.170 | 0.008 0.012 | 0.028 0.022 | 0.290 0.340 | 71,792 81,000 | 48,231 49,000 | 34.0 26.0 | 56.0 64.0 | 159 | |
| 4.08 | CBL | CMTR LAB | 0.220 0.220 | 1.020 1.150 | 0.008 0.014 | 0.028 0.026 | 0.290 0.330 | 71,792 78,000 | 48,231 49,000 | 34.0 28.0 | 56.0 66.0 | 149 | |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: CBL | | | | | (QUANTITY: 8) | * * * * * | | | | |
| | | CMTR LAB | 0.220 0.219 | 1.020 1.165 | 0.008 0.018 | 0.028 0.022 | 0.290 0.334 | 71,792 79,563 | 48,231 50,563 | 34.0 25.1 | 56.0 63.0 | 156 | |
| 21.01 | CFY | CMTR LAB | 0.250 0.180 | 1.350 1.060 | 0.018 0.025 | 0.039 0.014 | 0.270 0.240 | 84,725 69,500 | 53,898 45,100 | 35.0 32.0 | 67.0 62.0 | 143 | |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: CFY | | | | | (QUANTITY: 1) | * * * * * | | | | |
| | | CMTR LAB | 0.250 0.180 | 1.350 1.060 | 0.018 0.025 | 0.039 0.014 | 0.270 0.240 | 84,725 69,500 | 53,898 45,100 | 35.0 32.0 | 67.0 62.0 | 143 | |
| 7.01 | CKS | CMTR LAB | 0.200 0.190 | 1.350 1.190 | 0.021 0.015 | 0.016 0.026 | 0.350 0.290 | 80,923 68,000 | 58,888 35,500 | 28.7 23.0 | 59.0 51.0 | 137 | |
| 7.02 | CKS | CMTR LAB | 0.200 0.190 | 1.350 1.160 | 0.021 0.030 | 0.016 0.027 | 0.350 0.290 | 80,923 69,500 | 58,888 37,500 | 28.7 27.0 | 59.0 55.0 | 137 | |
| 7.03 | CKS | CMTR LAB | 0.200 0.200 | 1.350 1.140 | 0.021 0.031 | 0.016 0.024 | 0.350 0.290 | 80,923 68,000 | 58,888 37,200 | 28.7 30.0 | 59.0 63.0 | 131 | |
| 7.04 | CKS | CMTR LAB | 0.200 0.200 | 1.350 1.140 | 0.021 0.029 | 0.016 0.026 | 0.350 0.290 | 80,923 72,500 | 58,888 42,900 | 28.7 26.0 | 59.0 48.0 | 149 | |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: CKS | | | | | (QUANTITY: 4) | * * * * * | | | | |
| | | CMTR LAB | 0.200 0.195 | 1.350 1.157 | 0.021 0.026 | 0.016 0.026 | 0.350 0.290 | 80,923 69,500 | 58,888 38,275 | 28.7 26.5 | 59.0 54.5 | 139 | |
| 8.01 | SD69 | CMTR LAB | 0.280 0.200 | 0.780 0.840 | 0.012 0.023 | 0.009 0.010 | 0.220 0.190 | 90,710 76,000 | 73,410 48,100 | 27.0 26.0 | 57.6 67.0 | 156 | |
| | | | * * * * AVERAGE TEST DATA FOR . . . SD69 | | | | | (QUANTITY: 1) | * * * * * | | | | |
| | | CMTR LAB | 0.280 0.200 | 0.780 0.840 | 0.012 0.023 | 0.009 0.010 | 0.220 0.190 | 90,710 76,000 | 73,410 48,100 | 27.0 26.0 | 57.6 67.0 | 156 | |

***** TOTAL NUMBER TESTED : 30 *****

TABLE 6

NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 13.09 LAST UPDATED: 09/29/88 DATE IDENTIFIED: 07/08/88 30-DAY ACTION DATE⁽¹⁾: 08/07/88

DOCUMENTATION

NCR: 88-054 MRI: M39#J PDC: 87-24 MR: MRIR: WITHDRAWAL REQ.: MRR: 183# TASK: 87-05.25

DESCRIPTION

TYPE⁽²⁾: FLG SIZE(IN.): 2 PRESSURE: 12# HEAT TREATMENT⁽³⁾: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
 SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P (W=WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER: FSR-P-349

CHAIN OF PURCHASE

VENDOR1: MJM P.O.1: 48#7 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O.2: D66-006# DATE 2: 1/1
 VENDOR3: BECHTEL P.O.3: FM4633Q DATE 3: 04/28/87 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 04/22/87 HEAT NUMBER: COX SPECIFICATION: S41#5
 CAR: 0.29# MAN: 0.75# PHOS: 0.017 SUL: 0.027 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.22#
 TENSILE: 87.66J YIELD: 50.57J ELONGATION: 22.0 REDUCTION: 43.0 HARDNESS:

EQUOTIP TESTING

START DATE: 08/02/88 DATE COMPLETED: 08/02/88 EQUOTIP1: 391 EQUOTIP2: 388 EQUOTIP3: 390 EQUOTIP4: 393 EQUOTIP5: 394 EQUOTIP AVERAGE: 391
 HARDNESS: 126 TENSILE: 60.5#

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

SSW CROSS HEADER - SCREEN HOUSE

⁽¹⁾ Automatically calculated by the Database. DO NOT ENTER.

⁽²⁾ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

⁽³⁾ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

⁽⁴⁾ RL=Blind, RW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

TIME: 11:25:46
 DATE: 08/31/88

TABLE 7
 NRC BULLETIN 88-05
 COMPARISON OF EQUOTIP AND LAB TEST RESULTS

| COMPONENT NUMBER | HEAT NUMBER | NCR | PILBRIM EQUOTIP #1 | PILBRIM EQUOTIP #2 | PILBRIM EQUOTIP #3 | PILBRIM EQUOTIP #4 | PILBRIM EQUOTIP #5 | PILBRIM EQUOTIP AVERAGE | PILBRIM EQUOTIP BRINELL | PILBRIM EQUOTIP TENSILE | LAB EQUOTIP AVERAGE | LAB BRINELL | LAB TENSILE | CMTR BRINELL | CMTR TENSILE |
|------------------|-------------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|-------------------------|-------------------------|---------------------|-------------|-------------|--------------|--------------|
| 1.02 | 9321 | 88-043 | 421 | 422 | 419 | 419 | 425 | 421 | 153 | 74,000 | 421 | 148 | 71,500 | | 73,225 |
| 6.06 | 9321 | 88-043 | 413 | 411 | 416 | 414 | 412 | 413 | 147 | 71,300 | 412 | 143 | 74,500 | | 73,225 |
| 6.07 | 9321 | 88-043 | 425 | 416 | 419 | 431 | 418 | 421 | 151 | 73,200 | 418 | 146 | 78,000 | | 73,225 |
| 6.08 | 9321 | 88-043 | 413 | 411 | 407 | 412 | 415 | 412 | 147 | 71,300 | 412 | 152 | 76,500 | | 73,225 |
| 6.09 | 9321 | 88-043 | 417 | 425 | 423 | 417 | 424 | 421 | 153 | 74,000 | 421 | 152 | 75,500 | | 73,225 |
| 6.10 | 9321 | 88-043 | 414 | 418 | 417 | 413 | 415 | 415 | 149 | 72,400 | 415 | 146 | 77,000 | | 73,225 |

 # TOTAL TESTED: 6 #

TIME: 10:59:00
DATE: 08/31/88

TABLE 8
MRC BULLETIN 88-05
IN-SITU EQUOTIP TESTING RESULTS

| COMPONENT NUMBER | HEAT NUMBER | NCR | EQUOTIP #1 | EQUOTIP #2 | EQUOTIP #3 | EQUOTIP #4 | EQUOTIP #5 | EQUOTIP AVERAGE | EQUOTIP BRINELL | EQUOTIP TENSILE | CMTR BRINELL | CMTR TENSILE |
|------------------|-------------|--------|---|------------|------------|------------|------------|-----------------|-----------------|-----------------|--------------|--------------|
| 13.01 | 212234 | 88-054 | 422 | 414 | 413 | 412 | 412 | 413 | 149 | 72,400 | | 77,000 |
| 13.02 | 212234 | 88-054 | 427 | 423 | 423 | 425 | 426 | 424 | 148 | 72,000 | | 77,000 |
| 13.03 | 212234 | 88-054 | 428 | 425 | 428 | 418 | 424 | 426 | 151 | 73,200 | | 77,000 |
| 13.04 | 212234 | 88-054 | 426 | 422 | 424 | 425 | 425 | 425 | 148 | 72,000 | | 77,000 |
| 13.05 | 212234 | 88-054 | 418 | 418 | 428 | 422 | 418 | 419 | 147 | 71,300 | | 77,000 |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: 212234 * * * * | | | | | | | | | |
| | | | 423 | 420 | 423 | 420 | 421 | 421 | 149 | 72,100 | | 77,000 |
| 9.01 | 37862 | 88-059 | 411 | 414 | 412 | 414 | 418 | 413 | 140 | 72,000 | | 79,000 |
| 9.02 | 37862 | 88-059 | 408 | 408 | 408 | 405 | 413 | 408 | 144 | 69,500 | | 79,000 |
| 9.04 | 37862 | 88-059 | 403 | 403 | 404 | 405 | 404 | 404 | 141 | 68,000 | | 79,000 |
| 9.05 | 37862 | 88-059 | 420 | 421 | 426 | 422 | 421 | 421 | 153 | 74,000 | | 79,000 |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: 37862 * * * * | | | | | | | | | |
| | | | 411 | 412 | 413 | 412 | 414 | 412 | 147 | 70,875 | | 79,000 |
| 5.01 | 6011375 | 88-046 | 442 | 442 | 442 | 441 | 441 | 442 | 170 | 82,000 | | 80,600 |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: 6011375 * * * * | | | | | | | | | |
| | | | 442 | 442 | 442 | 441 | 441 | 442 | 170 | 82,000 | | 80,600 |
| 23.01 | 6X11375 | 88-052 | 401 | 401 | 398 | 398 | 398 | 399 | 138 | 66,500 | | 80,600 |
| 23.02 | 6X11375 | 88-052 | 433 | 428 | 435 | 426 | 430 | 430 | 153 | 74,000 | | 80,600 |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: 6X11375 * * * * | | | | | | | | | |
| | | | 417 | 415 | 417 | 412 | 414 | 415 | 146 | 70,250 | | 80,600 |
| 10.01 | 75065 | 88-045 | 419 | 425 | 426 | 427 | 427 | 426 | 149 | 72,400 | | 81,019 |
| 10.02 | 75065 | 88-045 | 425 | 429 | 421 | 421 | 427 | 424 | 147 | 71,300 | | 81,019 |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: 75065 * * * * | | | | | | | | | |
| | | | 422 | 427 | 424 | 424 | 427 | 425 | 148 | 71,850 | | 81,019 |
| 1.04 | 9321 | 88-061 | 458 | 463 | 460 | 460 | 460 | 460 | 185 | 80,700 | | 73,225 |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: 9321 * * * * | | | | | | | | | |
| | | | 458 | 463 | 460 | 460 | 460 | 460 | 185 | 80,700 | | 73,225 |
| 13.11 | CND | 88-054 | 435 | 435 | 433 | 430 | 432 | 434 | 161 | 78,500 | | 78,444 |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: CND * * * * | | | | | | | | | |
| | | | 435 | 435 | 433 | 430 | 432 | 434 | 161 | 78,500 | | 78,444 |
| 13.09 | COI | 88-054 | 391 | 388 | 390 | 393 | 394 | 391 | 126 | 60,500 | | 87,663 |
| | | | * * * * AVERAGE TEST DATA FOR HEAT: COI * * * * | | | | | | | | | |
| | | | 391 | 388 | 390 | 393 | 394 | 391 | 126 | 60,500 | | 87,663 |

* TOTAL TESTED: 17 *

Attachment 1
(215 Pages)
NRC Bulletin 88-05

Nonconforming Material
Database Records

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 1.01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE⁽¹⁾: 07/20/88

DOCUMENTATION

NCR: 88-043 MRI: 04114 PDC: 86-22 MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MRR: 20066 TASK: 86-005,88

DESCRIPTION

TYPE⁽²⁾: FLG SIZE(IN.): 22 PRESSURE: 150 HEAT TREATMENT⁽³⁾: _____ CATEGORY⁽⁴⁾: FF SO SCHEDULE: _____ ASME CLASS: 2 GRADE: _____
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: W [W=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: _____ DATE 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95302-N DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17049-FW-5439Q DATE 3: 1/1 VENDOR4: _____ P.O.4: _____ DATE 4: 1/1

MATERIAL CERTIFICATION

CMTR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: S2105
CAR: 0.240 MAN: 0.960 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73,225 YIELD: 44,300 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS: _____

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: _____
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.230 MAN: 0.920 PHOS: 0.025 SUL: 0.017 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.280
TENSILE: 77,000 YIELD: 44,900 ELONGATION: 27.0 REDUCTION: 65.0 HARDNESS: 152 EQUOTIP AVG.: _____

REMARKS

⁽¹⁾ Automatically calculated by the Database. DO NOT ENTER.

⁽²⁾ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage

⁽³⁾ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

⁽⁴⁾ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 1.02 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

NCR: 08-043 MRI: 04114 POC: 06-22 MR: MR18 WITHDRAWAL REQ.: MRR: 20066 TASK: 06-005.89

DESCRIPTION

TYPE: FLG SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: 3 CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [W=WAREHOUSE. P=PLANT] G. Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1/1 VENDOR2: RAMOR ALLOYS, INC. P.O. 2: RA-95392-M DATE 2: 1/1
VENDOR3: BECCTEL P.O. 3: 17809-FM-54390 VENDOR4: 1/1 P.O. 4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 06/09/87 HEAT NUMBER: 9321 SPECIFICATION: S4105
CAR: 0.240 WAK: 0.760 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73.225 YIELD: 44.380 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING

START DATE: 07/14/88 DATE COMPLETED: 07/14/88 EQUOTIP1: 421 EQUOTIP2: 422 EQUOTIP3: 419 EQUOTIP4: 419 EQUOTIPS: 425 EQUOTIP AVERAGE: 421
HARDNESS: 123 TENSILE: 74.000

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.180 WAK: 0.950 PHOS: 0.010 SUL: 0.034 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.260
TENSILE: 71.500 YIELD: 39.800 ELONGATION: 32.0 REDUCTION: 67.0 HARDNESS: 140 EQUOTIP AVG.: 421

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Anneal, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 1.03 LAST UPDATED: 07/09/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

NCR: 88-043 MRI: M414 POC: 86-22 MR: MRIR WITHDRAWAL REQ.: MRR: 20066 TASK: 86-005.88

DESCRIPTION

TYPE: FLG SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95392-M DATE 2:
VENDOR3: BECHTEL P.O.3: 17849-FM-5439Q DATE 3: VENDOR4: P.O.4: DATE 4:

MATERIAL CERTIFICATION

CMTR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: S4105
CAR: 0.240 MAN: 0.960 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73,225 YIELD: 44,300 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING

START DATE: DATE COMPLETED: EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.210 MAN: 1.030 PHOS: 0.026 SUL: 0.027 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.260
TENSILE: 76,000 YIELD: 43,400 ELONGATION: 29.0 REDUCTION: 65.0 HARDNESS: 146 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CFL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 1.84 LAST UPDATED: 07/27/89 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE: 07/27/89

DOCUMENTATION
NCR: 88-061 MRI: M4114 PDC: 86-22 MR: 20066 WITHDRAWAL REQ.: 20066 TASK: 86-005.88

DESCRIPTION
TYPE: F16 SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: E [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: FSK-P-447

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95392-B DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-FM-54390 DATE 3: 1/1 VENDOR4: 1/1 P.O.4: 1/1

MATERIAL CERTIFICATION
CMR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: SAT05
CAR: 0.240 MAN: 0.260 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73,225 YIELD: 44,380 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING
START DATE: 07/27/88 DATE COMPLETED: 07/22/88 EQUOTIP1: 458 EQUOTIP2: 463 EQUOTIP3: 460 EQUOTIP4: 460 EQUOTIP5: 460 EQUOTIP AVERAGE: 460
HARDNESS: 185 TENSILE: 88,700

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS
EQUOTIP REDONE. FIRST TEST 218 BRINELL ON 7/20/88

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) F16=Flange, EL8=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SW6=Swage
- (3) ANN=Annealed, NRM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 1.05 LAST UPDATED: 07/13/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE^(*): 07/27/88

DOCUMENTATION

NCR: 88-062 MRI: M4114 PDC: 86-22 MR: MRIR: WITHDRAWAL REQ.: MRR: 20066 TASK: 86-005.88

DESCRIPTION

TYPE⁽²⁾: FLG SIZE(IN.): 22 PRESSURE: 150 HEAT TREATMENT⁽³⁾: CATEGORY⁽⁴⁾: FF SO SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P [W=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: # [Y/N] DRAWING NUMBER: FSK-P-407

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-55392-N DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FN-5439Q DATE 3: / / VENDGR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: SA105
CAR: 0.240 MAN: 0.960 PHOS: 0.030 SUL: 0.040 NTC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73,225 YIELD: 44,380 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: # EQUOTIP2: # EQUOTIP3: # EQUOTIP4: # EQUOTIP5: # EQUOTIP AVERAGE:
HARDNESS: # TENSILE: #

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NTC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: # YIELD: # ELONGATION: REDUCTION: HARDNESS: # EQUOTIP AVG.:

REMARKS

⁽¹⁾ Automatically calculated by the Database. DO NOT ENTER.

⁽²⁾ FLG=Flange, ELP=Elbow, TEE, CAP, CPl=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage

⁽³⁾ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

⁽⁴⁾ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: L-66 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE: 07/27/88

DOCUMENTATION
MCR: 88-062 MRI: 0414 POC: 06-22 MR: MRIR: WITHDRAWAL REQ.: MRR: 20066 TASK: 86-005.88

DESCRIPTION
TYPE: FLG SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF S0 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM
ACCESSIBLE: N (Y/N) DRAWING NUMBER: FSK-P-407 LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RAVWOR ALLOYS, INC. P.O.2: RA-95392-N DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FN-54390 DATE 3: / / VENDOR4: DATE 4: / /

MATERIAL CERTIFICATION
MTR DATE: 06/09/87 HEAT NUMBER: 9371 SPECIFICATION: SAL05
CAR: 0.240 WRM: 0.960 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73.225 YIELD: 44.390 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 1.07 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE: 07/27/88

DOCUMENTATION

NCR: 88-062 MRI: 04114 PDC: 86-22 MR: 06-22 MRR: 20066 WITHDRAWAL REQ.: 07/27/88 TASK: 86-005.88

DESCRIPTION

TYPE: F16 SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF S6 SCHEDULE: ACME CLASS: 2 GRADE: 0
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALI SERVICE WATER SYSTEM LOCATION: P [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: N [Y/N] DRAWING NUMBER: FSK-P-407

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 DATE 1: 1/1 VENDOR2: RAMBOR ALLOYS, INC. P.O.2: RA-95392-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-FM-54390 DATE 3: 1/1 VENDOR4: 0 P.O.4: 0 DATE 4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 06/08/87 MFG NUMBER: 9321 SPECIFICATION: S4105
CAR: 0.240 MAN: 0.960 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73,225 YIELD: 44,380 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FL6=Flange, ELB=Elbow, TEE, LCP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMG=Stange
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 1.00 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE^{**}: 07/27/88

DOCUMENTATION

NCR: 88-062 MRI: 04114 PDC: 86-22 MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MRR: 20066 TASK: 86-005.88

DESCRIPTION

TYPL^{**}: FLG SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT^{**}: _____ CATEGORY^{**}: FF 50 SCHEDULE: _____ ASME CLASS: 2 GRADE: _____
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: N (Y/N) DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: _____ DATE 1: / / VENDOR2: RAONOR ALLOYS, IKS. P.O.2: RA-95392-M DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17049-FN-54390 DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: S4105
CAR: 0.240 MAN: 0.960 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73,225 YIELD: 44,380 ELONGATION: 23.0 REDUCTION: 11.0 HARDNESS: _____

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: _____
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.630 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: _____ REDUCTION: _____ HARDNESS: 0 EQUOTIP AVG.: _____

REMARKS

^{**} Automatically calculated by the Database. DO NOT ENTER.

^{**} FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

^{**} ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

^{**} BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lap Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 3.01 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE^{**}: 07/31/88

DOCUMENTATION

NCR: 88-053 MRI: 04389 PDC: 86-528 MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MRR: 21033 TASK: 07-012.23

DESCRIPTION

T..¹²³: FLG SIZE(IN.): 0 PRESSURE: 150 HEAT TREATMENT¹²³: _____ CATEGORY¹²³: FF WN SCHEDULE: 40 ASME CLASS: _____ GRADE: _____
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: W [W=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: _____ DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95283-W DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FNS-63540 DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: 07/16/87 HEAT NUMBER: 6X11375 SPECIFICATION: SA105
CAR: 0.280 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80,600 YIELD: 51,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: _____

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: _____
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: _____ REDUCTION: _____ HARDNESS: 0 EQUOTIP AVG.: _____

REMARKS

^{**} Automatically calculated by the Database. DO NOT ENTER.

¹²³ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

¹²³ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

¹²³ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
 NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 3.02 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
 NCR: 88-053 MR1: 04189 POC: 86-328 MR: MRIR: WITHDRAWAL REQ.: MRR: 21033 TASK: 87-012.23

DESCRIPTION
 TYPE: FLG SIZE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 00 SCHEDULE: 40 ASME CLASS: GRADE:
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: 00 SYSTEM ASSIGNED LOCATION: 0 (0=WAREHOUSE, P=PLANT) 0: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
 VENDOR1: PSJ P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95283-M DATE 2: / /
 VENDOR3: BECHTEL P.O.3: 17809-FWS-63540 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION
 CNTR DATE: 07/16/87 HEAT NUMBER: 6X11375 SPECIFICATION: SA105
 CAR: 0.200 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
 TENSILE: 80,600 YIELD: 52,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS:

EQUOTIP TESTING
 START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
 HARDNESS: 0 TENSILE: 0

LAB TESTING
 DATE TO LAB: / / DATE RESULTS RECEIVED: / /
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- (3) ANN=Annealed, NORM=Normalized, D&T=Burch & Tupper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 4.01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

NCR: 88-443 MRI: M4308 PDC: 86-528 MR: MRIR MITHRANAL PFD.: MRR: 21072 TASK: 87-012.23

DESCRIPTION

TYPE: FL6 SIZE (IN.): 1 PRESSURE: 3000 HEAT TREATMENT: AS CATEGORY: RF SM SCHEDULE: 80 ASME CLASS: 2 GRADE: SA-312
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: 0 [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95283-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-FMS-63400 DATE 3: 1/1 VENDOR4: 0 P.O.4: 0 DATE 4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 07/16/87 HEAT NUMBER: CBL SPECIFICATION: S4105
CAR: 0.220 MAN: 1.020 PHOS: 0.008 SUL: 0.028 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
TENSILE: 71,792 YIELD: 48,231 ELONGATION: 34.0 REDUCTION: 56.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.210 MAN: 1.160 PHOS: 0.022 SUL: 0.017 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.350
TENSILE: 82,000 YIELD: 51,500 ELONGATION: 25.0 REDUCTION: 67.0 HARDNESS: 166 EQUOTIP AVG.:

REMARKS

- (1) Automaticall; calculated by the Database. DO NOT ENTER.
- (2) FL6-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PL6-Plug, RED-Reducer, SW6-Swage
- (3) ANN-Annealed, NORM-Normalized, QNT-Quench & Temper, TEM-Tempering
- (4) BL-Blind, BM-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 4.02 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE^{***}: 07/20/88

DOCUMENTATION

NCR: 88-043 MR: 04308 PDC: 06-528 MR: MRIR: WITHDRAWAL REQ.: MRR: 21072 TASK: 87-012.23

DESCRIPTION

TYPE^{**}: FLG SIZE(IN.): 1 PRESSURE: 300 HEAT TREATMENT^{***}: CATEGORY^{***}: RF SW SCHEDULE: 8# ASME CLASS: 2 GRADE:
SYSTEM NO.: # SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: # [W=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95283-N DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FMS-63400 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: 07/16/87 HEAT NUMBER: CBL SPECIFICATION: SA105
CAR: 0.22# MAN: 1.02# PHOS: 0.008 SUL: 0.028 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.29#
TENSILE: 71,792 YIELD: 48,23 ELONGATION: 34.# REDUCTION: 56.# HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: # EQUOTIP2: # EQUOTIP3: # EQUOTIP4: # EQUOTIP5: # EQUOTIP AVERAGE:
HARDNESS: # TENSILE: #

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.22# MAN: 1.18# PHOS: 0.015 SUL: 0.024 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.34#
TENSILE: 79,000 YIELD: 52,500 ELONGATION: 23.# REDUCTION: 64.# HARDNESS: 149 EQUOTIP AVG.:

REMARKS

^{***} Automatically calculated by the database. DO NOT ENTER.

^{**} FLG=Flange, ELB=Elbow, TEE, C&P, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

^{***} ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

^{***} BL=Blind, RW=Root Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 4.2J LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE^{***}: 07/20/88

DOCUMENTATION

NCR: 88-92J MRI: 04388 PDC: 86-520 MR: MRIR: WITHDRAWAL REQ.: MRR: 21072 TASK: 87-012.23

DESCRIPTION

TYPE^{**}: FLG SIZE(IN.): 1 PRESSURE: 300 HEAT TREATMENT^{**}: CATEGORY^{**}: RF SW SCHEDULE: 10 ASME CLASS: 2 GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: W (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSJ P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95283-W DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FMS-63409 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: 07/16/87 HEAT NUMBER: CBL SPECIFICATION: SA105
CAR: 0.220 MAN: 1.020 PHOS: 0.008 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
TENSILE: 71,792 YIELD: 48,231 ELONGATION: 34.0 REDUCTION: 56.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.220 MAN: 1.120 PHOS: 0.025 SUL: 0.019 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.330
TENSILE: 81,000 YIELD: 50,000 ELONGATION: 23.0 REDUCTION: 64.0 HARDNESS: 156 EQUOTIP AVG.:

REMARKS

^{***} Automatically calculated by the Database. DO NOT ENTER.

^{**} FLG=Flange, FLB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

^{**} ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

^{**} BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 4.04 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION
MCR: 88-043 MRI: 04388 POC: 86-528 MR: MR WITHDRAWAL REQ.: MR: 21072 TASK: 87-012.23

DESCRIPTION
TYPE: FLG SIZE(IN.): 1 PRESSURE: 300 HEAT TREATMENT: AS SCHEDULE: 00 ASME CLASS: 2 GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:
LOCATION: M (M=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)

CHAIN OF PURCHASE
VENDOR1: PSI P.O. 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O. 2: 08-95283-M DATE 2: 1/1
VENDOR3: BECHTEL P.O. 3: 17849-FMS-63400 DATE 3: 1/1 VENDOR4: 0 P.O. 4: 0 DATE 4: 1/1

MATERIAL CERTIFICATION
CTR DATE: 07/16/87 HEAT NUMBER: 001 SPECIFICATION: SAT05
CAR: 0.220 N/A: 1.020 PHOS: 0.000 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
TENSILE: 71.792 YIELD: 48.231 ELONGATION: 34.0 REDUCTION: 56.0 HARDNESS:

EQUTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: 0 EQUTIP2: 0 EQUTIP3: 0 EQUTIP4: 0 EQUTIP5: 0 EQUTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.220 N/A: 1.180 PHOS: 0.015 SUL: 0.025 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.320
TENSILE: 60.500 YIELD: 52.500 ELONGATION: 23.0 REDUCTION: 62.0 HARDNESS: 159 EQUTIP AVG.:

REMARKS
1) Automatically calculated by the Database. DO NOT ENTER.
2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage
3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

WRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 4.05 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 JOB-DAY ACTION DATE: 07/29/88

DOCUMENTATION

NCR: 88-443 MRI: #4308 POC: 86-528 MR: MRIR: WITHDRAWAL REQ.: MRR: 21071 ASK: 87-012113

DESCRIPTION

TYPE: FLG SIZE(IN.): 1 PRESSURE: 300 HEAT TREATMENT: CATEGORY: RF SH SCHEDULE: 00 WME CLASS: 2 GRADE: SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: 0 (W-WAREHOUSE, P-PLANT) 0: Y 1: /N1 SAFETY RELATED: Y (Y/N) ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: / / VENDOR2: RADWOR ALLOYS, INC. P.O.2: RA-95283-0 ISSUE 2: / / VENDOR3: BECWTEL P.O.3: 17849-FMS-63400 DATE 3: / / P.L.4: / /

MATERIAL CERTIFICATION

CNTR DATE: 07/16/87 HEAT NUMBER: CBL SPECIFICATION: S4105 CAR: 0.22# MAN: 1.02# PHOS: 0.00# SUL: 0.02# NIC: 0.00# CHR: 0.00# MOL: 0.00# SIL: 0.29# TENSILE: 71,792 YIELD: 40,231 ELONGATION: 34.0 REDUCTION: 56.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIPS: 0 EQUOTIP AVERAGE: HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88 CAR: 0.21# MAN: 1.15# PHOS: 0.021 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.33# TENSILE: 76,000 YIELD: 52,500 ELONGATION: 24.5 REDUCTION: 60.0 HARDNESS: 156 EQUOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupli, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 4.06 LAST UPDATED: 07/09/88 DATE IDENTIFIED: 06/20/83 30-DAY ACTION DATE ^(A): 07/20/88

DOCUMENTATION

NCR: 88-043 MS1: 04308 POC: 86-528 MR: MR18 WITHDRAWAL REQ.: MR: 21072 TASK: 87-012.23

DESCRIPTION

TYPE ^(P): FLG SIZE (IN.): 1 PRESSURE: 300 HEAT TREATMENT ^(S): RF SW SCHEDULE: 00 ASME CLASS: 2 GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: LOCATION: W (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 DATE 1: 1/1 VENDOR2: RAMMOB ALLOYS, INC. P.O.2: 88-95283-W DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17049-FWS-63400 DATE 3: 1/1 VENDOR4: 1/1 P.O.4: 1/1

MATERIAL CERTIFICATION

DATE DATE: 07/16/87 HEAT NUMBER: CBL SPECIFICATION: SAL05
CAR: 0.220 MAN: 1.020 PHOS: 0.000 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
TENSILE: 71,792 YIELD: 49,231 ELONGATION: 34.0 REDUCTION: 56.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.230 MAN: 1.210 PHOS: 0.017 SUL: 0.071 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.330
TENSILE: 79,000 YIELD: 47,500 ELONGATION: 28.5 REDUCTION: 63.0 HARDNESS: 156 EQUOTIP AVG.:

REMARKS

- ⁽¹⁾ Automatically calculated by the Database. DO NOT ENTER.
- ⁽²⁾ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage
- ⁽³⁾ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEN=Tempering
- ⁽⁴⁾ 8L=8Lead, 8W=8 Butt Weld, FF=Flat Face, LU=Lapped Joint, WF=Welded Face, RJ=Ring Joint, 50=Slip On, SW=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 4.87 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/89 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION
NCR: 88-443 MRI: 44388 POC: 96-528 MR: MR12: WITHDRAWAL REQ.: MRR: 21072 TASK: 87-012.23

DESCRIPTION
TYPE: FLG SIZE (IN.): 1 PRESSURE: 1000 HEAT TREATMENT: CATEGORY: RF 5W SCHEDULE: 00 ASME CLASS: 2 GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: #0 SYSTEM ASSIGNED LOCATION: # TW-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95283-M DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FMS-63400 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION
CMR DATE: 07/16/87 HEAT NUMBER: C8L SPECIFICATION: SAI05
CAR: 0.220 MAX: 1.020 PHOS: 0.000 SUL: 0.028 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
TENSILE: 71,792 YIELD: 48,231 ELONGATION: 34.0 REDUCTION: 56.0 HARDNESS:

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0

LAB TESTING
DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.220 MAX: 1.020 PHOS: 0.012 SUL: 0.022 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.340
TENSILE: 81,000 YIELD: 49,000 ELONGATION: 26.0 REDUCTION: 64.0 HARDNESS: 159 EQUOTIP AVG.:

REMARKS
1. Automatically calculated by the Database. DO NOT ENTER.
2. FL=Flange, ELB=Elbow, TEE, CAP, DPL=Coupling, EIP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
3. ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
4. BL=Blind, BW=Butt Weld, FF=Flat Face, LL=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 4.02 LAST UPDATED: 07/09/88 DATE IDENTIFIED: 06/20/88 JOB-DAY ACTION DATE: 07/20/88

DOCUMENTATION
NCR: 88-043 MRI: 04308 PDC: 06-528 MR: WITHDRAWAL REQ.: MRR: 21072 TASK: 07-012.23

DESCRIPTION
TYPE: FL6 SIZE (IN.): 1 PRESSURE: 300 HEAT TREATMENT: 30 CATEGORY: RF SW SCHEDULE: 00 ASME CLASS: 2 GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95283-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-F05-63400 DATE 3: 1/1 VENDOR4: 1/1 P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
CNR DATE: 07/16/87 HEAT NUMBER: CBL SPECIFICATION: SAT05

CAR: 0.220 MAN: 1.020 PHOS: 0.008 SUL: 0.028 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
TENSILE: 71.792 YIELD: 49.231 ELONGATION: 34.0 REDUCTION: 56.0 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.220 MAN: 1.150 PHOS: 0.014 SUL: 0.026 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.330
TENSILE: 78.000 YIELD: 49.000 ELONGATION: 28.0 REDUCTION: 66.0 HARDNESS: 149 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL6-Flange, EL6-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLS-Plug, RED-Reducer, SW6-Swage
- 3) ANN-Annealed, NORM-Normalized, OAT-Quench & Temper, TEM-Tempering
- 4) RL-Clind, BR-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 4.87 LAST UPDATED: 87/19/88 DATE IDENTIFIED: 86/24/88 30-DAY ACTION DATE: 87/24/88

DOCUMENTATION
MCR: NONE MBI: 84188 POC: 86-518 MR: MRIR WITHDRAWAL REQ.: MRR: 21872 TASK: 87-812.23

DESCRIPTION
TYPE: FLG SIZE (IN.): 1 PRESSURE: 3000 HEAT TREATMENT: AS CATEGORY: RF SM SCHEDULE: 88 ASME CLASS: 2 GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: [W-WAREHOUSE, P-PLANT] D: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER: 81884 SB. 473

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: RAGNOR ALLOYS, INC. P.O.2: 8A-95283-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-FMS-63480 DATE 3: 1/1 VENDOR4: 0 P.O.4: 0 DATE 4: 1/1

MATERIAL CERTIFICATION
MTR DATE: 87/16/87 HEAT NUMBER: CBL SPECIFICATION: S4185
CAR: 0.20 MAN: 1.828 PHOS: 0.008 SUL: 0.028 NTC: 0.008 CHR: 0.008 MOL: 0.008 SIL: 0.298
TENSILE: 71,772 YIELD: 48,211 ELONGATION: 14.8 REDUCTION: 56.8 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.008 MAN: 0.008 PHOS: 0.008 SUL: 0.008 NTC: 0.008 CHR: 0.008 MOL: 0.008 SIL: 0.008
TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) AN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) R=Blind, SW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
 NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 4.10 LAST UPDATED: 07/19/89 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

NCR: NONE MRI: 04388 POC: 06-528 MR: WTR WITHDRAWAL REQ.: MOR: 21072 TASK: 07-017.23

DESCRIPTION

TYPE: FLG SITEM.: 1 PRESSURE: 300 HEAT TREATMENT: 3 CATEGORY: RF SW SCHEDULE: 00 ASME CLASS: 2 GRADE: 1
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED
 ACCESSIBLE: [Y/N] DRAWING NUMBER: 01004 SB. 473 LOCATION: [W=WAREHOUSE, P=PLANT] 0: Y [Y/N] SAFETY RELATED: Y [Y/N]

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: RAMOR ALLOYS, INC. P.O.2: RA-95283-M DATE 2: 1/1
 VENDOR3: BECHTEL P.O.3: 17849-FMS-63400 VENDOR4: 1/1 P.O.4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 07/16/87 HEAT NUMBER: CBL SPECIFICATION: S410S
 CAR: 0.720 MAN: 1.070 PADS: 0.000 SUL: 0.070 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.790
 TENSILE: 71.792 YIELD: 49.231 ELONGATION: 14.0 REDUCTION: 56.0 HARDNESS:

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: 0 EQUTIP2: 0 EQUTIP3: 0 EQUTIP4: 0 EQUTIP5: 0 EQUTIP AVERAGE: 0
 HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PADS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.: 0

REMARKS

- *1* Automatically calculated by the Database. DO NOT ENTER.
- *2* FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- *3* ANN=Annealed, NORM=Normalized, OAT=Quench & Temper, TEM=Tempering
- *4* BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 5.01 LAST UPDATED: 07/27/88 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE: 07/22/88

DOCUMENTATION

NCR: 88-446 MRI: 84389 PDC: 87-43 MR: WITHORAMAL RED. MRR: 21097 TASK: 87-087.00

DESCRIPTION

TYPE: FLB SIZE (IN.): 10 PRESSURE: 600 HEAT TREATMENT: AS CATEGORY: RF BL SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 23 SYSTEM DESCRIPTION: HIGH PRESSURE COOLANT INJECTION SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: FSK-P-430

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: 8A-95263-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17949-FH-5975 DATE 3: 07/19/87 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

QTR DATE: 07/17/87 HEAT NUMBER: 6011375 SPECIFICATION: SAT05
CAR: 0.280 PHOS: 0.910 SUL: 0.070 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80.600 YIELD: 51.000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS:

EQUOTIP TESTING

START DATE: 07/27/88 DATE COMPLETED: 07/27/88 EQUOTIP1: 442 EQUOTIP2: 442 EQUOTIP3: 441 EQUOTIP4: 441 EQUOTIP5: 441 EQUOTIP AVERAGE: 442
HARDNESS: 170 TENSILE: 82.000

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLB-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SM6-Swage
- (3) ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- (4) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1

NPC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 6.01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06.20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

NCR: 08-043 NRI: 04360 POC: 86-22 MR: WITHDRAWAL REC.: MRR: 21352 TASK: 86-005.88

DESCRIPTION

TYPE: FLB SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: LOCATION: W-WAREHOUSE, P-PLANT Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95273-W DATE 2: 1/1
VENDOR3: BECKETL P.O.3: 17849-FM-62310 DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

DATE: 06/09/87 HEAT NUMBER: 9321 SPECIFICATION: S.A.105
CAR: 0.740 MIN: 0.750 PHOS: 0.030 SUL: 0.040 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73,275 YIELD: 44,300 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP6: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.720 MIN: 1.110 PHOS: 0.031 SUL: 0.009 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
TENSILE: 76,500 YIELD: 47,700 ELONGATION: 29.0 REDUCTION: 70.0 HARDNESS: 149 EQUOTIP AVS.:

REMARKS

Automatically calculated by the Database. DO NOT ENTER.
FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLS-Plug, RED-Reducer, SWG-Swage
ANN-Annealed, NORM-Normalized, GQT-Quench & Temper, TEM-Tempering
BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WH-Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 6.02 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE^{***}: 07/20/88

DOCUMENTATION

NCR: 88-043 MRI: 04360 PDC: 86-22 MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MRR: 21352 TASK: 86-005.88

DESCRIPTION

TYPE^{**}: FLG SIZE(IN.): 22 PRESSURE: 150 HEAT TREATMENT^{***}: _____ CATEGORY^{***}: FF SO SCHEDULE: _____ ASME CLASS: 2 GRADE: _____
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: U [W=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: _____ DATE 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95273-W DATE 2: 1/1
VENDORS: BECHTEL P.O.3: 17849-FW-6231Q DATE 3: 1/1 VENDOR4: _____ P.O.4: _____ DATE 4: 1/1

MATERIAL CERTIFICATION

MTR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: SA105
CAR: 0.240 MAN: 0.950 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73.225 YIELD: 44.300 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS: _____

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: 0

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.220 MAN: 1.190 PHOS: 0.020 SUL: 0.030 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.280
TENSILE: 73.000 YIELD: 45.600 ELONGATION: 11.0 REDUCTION: 75.0 HARDNESS: 149 EQUOTIP AVG.: _____

REMARKS

^{***} Automatically calculated by the Database. DO NOT ENTER.

^{**} FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

^{**} ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

^{**} BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 6.01 LAST UPDATED: 07/09/88 JOB-DAY ACTION DATE: 07/20/88 WITHDRAWAL REQ.: MR: 21352 TASK: 86-005.88

DOCUMENTATION

MCR: 88-043 MRI: W4360 PDC: 86-22 MR: MRTR MTR: MRTR WITHDRAWAL REQ.: MR: 21352 TASK: 86-005.88

DESCRIPTION

TYPE: FLG SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (M-WAREHOUSE, P-PLANT) Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: KADWOR ALLOYS, INC. P.O.2: KA-9273-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-f8-62310 DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: SAT05
CAR: 0.240 MRR: 0.950 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CWP: 0.000 MOL: 0.060 SIL: 0.220
TENSILE: 73,225 YIELD: 44,300 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.260 MAN: 1.170 PHOS: 0.019 SUL: 0.012 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 74,500 YIELD: 45,500 ELONGATION: 30.0 REDUCTION: 71.0 HARDNESS: 149 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLE=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 6-04 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

MCR: 88-043 MBI: 84360 PDC: 86-22 MD: MBR: 21352 WITHDRAWAL REQ.: MRR: 21352 TASK: 86-005.08

DESCRIPTION

TYPE: FLG SITE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: # [M-WAREHOUSE, P-PLANT; B: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95273-M DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FM-62310 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CONTR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: SA105
CAR: 0.240 HAN: 0.950 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73,225 YIELD: 44,380 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIPS: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.260 HAN: 1.230 PHOS: 0.022 SUL: 0.014 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 77,000 YIELD: 43,400 ELONGATION: 31.0 REDUCTION: 71.0 HARDNESS: 153 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWB=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Butt Weld, SW=Socket Weld, TH=Threaded, SM=Socket Weld, TH=Threaded, SM=Socket Weld, TH=Threaded, SM=Socket Weld

ATTACHMENT 1
NRC BULLETIN 8J-85 DATABASE RECORD

COMPONENT NUMBER: 6.85 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

MCR: 88-043 MRL: M4360 PDC: 86-22 MR: MR1R WITHDRAWAL RED.: MRR: 21352 TASK: 86-05.88

DESCRIPTION

TYPE: FLG SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF SD SCHEDULE: ASME CLASS: 2 GRADE: ASME CLASS: 2
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95273-M DATE 2: 1/1
VENDOR3: BECKTEL P.O.3: 17849-FM-62310 VENDOR4: 1/1 P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

QWTR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: SAL#S
CAR: 0.240 WAK: 0.950 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.270
TENSILE: 73.225 YIELD: 44.300 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.340 WAK: 1.170 PHOS: 0.010 SUL: 0.015 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 77.000 YIELD: 46.500 ELONGATION: 32.0 REDUCTION: 72.0 HARDNESS: 149 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLE=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 6.86 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

NCR: 88-043 MRI: 04360 PDC: 86-22 MR: MRIR WITHDRAWAL REQ.: MR: 21352 TASK: 86-005.88

DESCRIPTION

TYPE: FLG SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: SAFETY RELATED: Y (Y/N)
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [M=WAREHOUSE, P=PLANT] G: Y [Y/N] SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: RPMOR ALLOYS, INC. P.O.2: 8A-95273-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17049-FR-62310 DATE 3: 1/1 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 06/06/87 HEAT NUMBER: 9323 SPECIFICATION: SAT05
CAR: 0.240 MAN: 0.250 PHOS: 0.030 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73.225 YIELD: 44.380 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING

START DATE: 07/19/88 DATE COMPLETED: 07/19/88 EQUOTIP1: 413 EQUOTIP2: 411 EQUOTIP3: 416 EQUOTIP4: 414 EQUOTIP5: 412 EQUOTIP AVERAGE: 413
HARDNESS: 147 TENSILE: 71.300

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.150 MAN: 1.140 PHOS: 0.014 SUL: 0.013 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 74.200 YIELD: 45.000 ELONGATION: 30.0 REDUCTION: 72.0 HARDNESS: 143 EQUOTIP AVG.: 412

REMARKS

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SW6=Swage
- (*) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- (*) BL=Blind, BM=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, P-Ring Joint, 50-Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 6.07 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DESCRIPTION

NCR: 88-043 MRI: 04360 PDC: 86-22 MR: MRIR WITHDRAWAL REQ.: MRR: 21352 TASK: 86-005.88

DESCRIPTION

TYPE: FL6 SIZE(IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: SA105
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSJ P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-95273-M DATE 2: / /
VENDOR3: BECKTELL P.O.3: 17849-FM-67310 DATE 3: / / VENDOR4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 06/08/87 HEAT NUMBER: 9121 SPECIFICATION: SA105
CAR: 0.240 MAN: 0.950 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73.225 YIELD: 44.380 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 07/18/88 DATE COMPLETED: 07/18/88 EQUOTIP1: 425 EQUOTIP2: 416 EQUOTIP3: 419 EQUOTIP4: 431 EQUOTIP5: 418 EQUOTIP AVERAGE: 421
HARDNESS: 151 TENSILE: 73.200

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/16/88
CAR: 0.200 MAN: 1.160 PHOS: 0.020 SUL: 0.015 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 78.000 YIELD: 42.100 ELONGATION: 29.0 REDUCTION: 72.0 HARDNESS: 145 EQUOTIP AVG.: 418

REMARKS

- 11) Automatically calculated by the Database. DO NOT ENTER.
- 12) FL6=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SW6=Swage
- 13) ANN=Annealed, NORM=Normalized, QAT=Quench & Tem-Y, TEM=Tempering
- 14) RL=Blind, RM=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, T=Threaded, WM=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 6.00 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE^{***}: 07/20/88

DOCUMENTATION

NCR: 88-043 MRI: 04360 PDC: 86-22 MR: _____ CIR: _____ WITHDRAWAL REQ.: _____ MRR: 21352 TASK: 86-005.88

DESCRIPTION

TYPE^{**}: FLG SIZE(IN.): 22 PRESSURE: 150 HEAT TREATMENT^{***}: _____ CATEGORY^{***}: FF SO SCHEDULE: _____ ASME CLASS: 2 GRADE: _____
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: W (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: _____ DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: 9A-95273-W DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FN-62310 DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: SA105
CAR: 0.240 MAN: 0.950 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73.225 YIELD: 44.300 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS: _____

EQUOTIP TESTING

START DATE: 07/14/88 DATE COMPLETED: 07/14/88 EQUOTIP1: 413 EQUOTIP2: 411 EQUOTIP3: 407 EQUOTIP4: 412 EQUOTIP5: 415 EQUOTIP AVERAGE: 412
HARDNESS: 147 TENSILE: 71.300

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.310 MAN: 1.200 PHOS: 0.010 SUL: 0.012 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 76.500 YIELD: 47.300 ELONGATION: 31.0 REDUCTION: 72.0 HARDNESS: 152 EQUOTIP AVG.: 412

REMARKS

^{***} Automatically calculated by the Database. DO NOT ENTER.

^{**} FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, Ex.-Expander, PLG=Plug, RED=Reducer, SWG=Swage

^{***} ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

^{***} BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 6.07 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

NCR: 03-043 MRI: 04360 PDC: 86-22 MR: MRIR WITHDRAWAL REQ.: MRIR TASK: 86-005.08

DESCRIPTION

TYPE: FLG SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF SQ CATEGORY: FF SQ SCHEDULE: ASME CLASS: 2 GRADE: SA105
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: RAMBER ALLOYS, INC. P.O.2: RA-95273-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-FR-62310 DATE 3: 1/1 VENDOR4: RAMBER ALLOYS, INC. P.O.4: RA-95273-M DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: SA105
CAR: 0.240 MAN: 0.950 PHOS: 0.010 SUL: 0.010 N1C: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73.222 YIELD: 44.300 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EQUOTIP TESTING

START DATE: 07/14/88 DATE COMPLETED: 07/14/88 EQUOTIP1: 417 EQUOTIP2: 425 EQUOTIP3: 423 EQUOTIP4: 417 EQUOTIPS: 424 EQUOTIP AVERAGE: 421
HARDNESS: 153 TENSILE: 74.000

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.300 MAN: 1.260 PHOS: 0.010 SUL: 0.025 N1C: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 75.500 YIELD: 43.200 ELONGATION: 30.0 REDUCTION: 73.0 HARDNESS: 152 EQUOTIP AVG.: 421

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PL=Plug, RED=Reducer, SMC=Sweze
- 3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, SW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MPC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 6.10 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

MCR: 88-043 MRI: 04J60 PDC: 86-22 MR: MR18 WITHDRAWAL REQ.: MRR: 21352 TASK: 86-005.88

DESCRIPTION

TYPE: FLG SIZE (IN.): 22 PRESSURE: 150 HEAT TREATMENT: FF S0 SCHEDULE: ASME CLASS: 2 GRADE: FF S0
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [W-WAREHOUSE, P-PLANT] Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR: PSI P.O. 1: / / DATE 1: / / VENDOR2: RAMOR ALLOYS, INC. P.O. 2: RA-95273-M DATE 2: / /
VENDOR3: BECHTEL P.O. 3: 17047-FM-62310 DATE 3: / / VENDOR4: / / P.O. 4: / / DATE 4: / /

MATERIAL CERTIFICATION

CTR DATE: 06/08/87 HEAT NUMBER: 9321 SPECIFICATION: S4105
CAR: 0.240 MAR: 0.950 PHOS: 0.030 SUL: 0.040 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 73.225 YIELD: 44.300 ELONGATION: 23.0 REDUCTION: 31.0 HARDNESS:

EDUOTIP TESTING

START DATE: 07/14/88 DATE COMPLETED: 07/14/88 EDUOTIP1: 414 EDUOTIP2: 418 EDUOTIP3: 417 EDUOTIP4: 411 EDUOTIP5: 415 EDUOTIP AVERAGE: 415
HARDNESS: 149 TENSILE: 72.400

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.270 MAR: 1.260 PHOS: 0.015 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 77.000 YIELD: 46.700 ELONGATION: 28.0 REDUCTION: 72.0 HARDNESS: 146 EDUOTIP AVG.: 415

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, FEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
 NRC BULLETIN 89-05 DATABASE RECORD

COMPONENT NUMBER: 7.01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/29/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

NCR: 88-043 MRI: 04291 PDC: 86-98 MR: MRIR WITHDRAWAL REQ.: MRR: 21740 TASK: 87-090.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 1 PRESSURE: 600 HEAT TREATMENT: RF SW SCHEDULE: 160 ASME CLASS: GRADE:
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: W-MAR. HOUSE, P-PLANT Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
 ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: DATE 1: / / VENDOR2: KADWOR ALLOYS, INC. P.O. 2: 8A-96315-M DATE 2: / /
 VENDOR3: BECHTEL P.O. 3: 17849-FM-67216 DATE 3: / / VENDOR4: P.O. 4: DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: 07/30/87 HEAT NUMBER: CKS SPECIFICATION: SJ105
 CAR: 0.200 WAM: 1.350 PHOS: 0.021 SUL: 0.016 N/C: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.350
 TENSILE: 80.223 YIELD: 50.800 ELONGATION: 28.7 REDUCTION: 59.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
 CAR: 0.190 WAM: 1.190 PHOS: 0.015 SUL: 0.026 N/C: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
 TENSILE: 68.000 YIELD: 35.500 ELONGATION: 23.0 REDUCTION: 51.0 HARDNESS: 137 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, E-B=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MW=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 7.02 LAS: UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

MCR: 88-043 MRI: 84291 PDC: 86-98 MR: MR10 WITHDRAWAL REC.: MRR: 21740 TASK: 87-090.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 1 PRESSURE: 0.00 HEAT TREATMENT: 3 CATEGORY: RF SW SCHEDULE: 160 ASME CLASS: GRABE
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1/1 VENDOR2: KADWOR ALLOYS, INC. P.O. 2: BA-96315-M DATE 2: 1/1
 VENDOR3: BECHTEL P.O. 3: 17849-FM-67210 VENDOR4: 1/1 P.O. 4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

CTR DATE: 07/30/87 HEAT NUMBER: CXS SPECIFICATION: SAT05
 CAR: 0.200 MAN: 1.150 PHOS: 0.021 SUL: 0.016 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.350
 TENSILE: 80,923 YIELD: 58,888 ELONGATION: 28.7 REDUCTION: 59.0 HARDNESS:

EQUOTIP TESTING

TART DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 1/1 EQUOTIP2: 1/1 EQUOTIP3: 1/1 EQUOTIP4: 1/1 EQUOTIP5: 1/1 EQUOTIP AVERAGE:
 HARDNESS: 0 TENSILE: 0

LAS TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
 CAR: 6.190 MAN: 1.160 PHOS: 0.030 SUL: 0.027 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
 TENSILE: 69,500 YIELD: 17,500 ELONGATION: 27.0 REDUCTION: 55.0 HARDNESS: 137 EQUOTIP AVG.: 137

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, OQT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 7.03 LAST UPDATED: 07/01/88 DATE IDENTIFIED: 05.2.0/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

MCR: 88-043 MRI: 04291 PDC: 06-98 MR: WRTR: WITHDRAWAL RED.: MRR: 21740 TASK: 0/-090.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 1 PRESSURE: 600 HEAT TREATMENT: RF SW CATEGORY: RF SW SCHEDULE: 160 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADWOR ALLOYS, INC. P.O.2: RA-96315-M DATE 2: / /
VENDOR3: BECATEL P.O.3: 17849-FM-67210 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

DATE: 07/10/87 HEAT NUMBER: CAS SPECIFICATION: SA105
CAR: 0.200 MAN: 1.500 PHOS: 0.021 SUL: 0.016 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.350
TENSILE: 80,000 YIELD: 37,000 ELONGATION: 28.7 REDUCTION: 59.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.200 MAN: 1.140 PHOS: 0.031 SUL: 0.024 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.290
TENSILE: 60,000 YIELD: 37,000 ELONGATION: 30.0 REDUCTION: 63.0 HARDNESS: 131 EQUOTIP AVG.:

REMARKS

- *1* Automatically calculated by the Database. DO NOT ENTER.
- *2* FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- *3* ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- *4* BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SB=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 7.84 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

MR: 88-043 MRI: 84721 PDC: 86-98 MR: 86-98 MRIR: WITHDRAWAL REQ.: MRR: 21740 TASK: 87-099-00

DESCRIPTION

TYPE: FLG SIZE (IN.): 1 PRESSURE: 600 HEAT TREATMENT: CATEGORY: RF SM SCHEDULE: 160 ASME CLASS: GRADE: SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: B [N-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N] ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: RAMOR ALLOYS, INC. P.O.2: RA-76315-N DATE 1: 1/1 DATE 2: 1/1
VENDOR3: RECTEL P.O.3: 17849-FR-67210 VENDOR4: P.O.4: 1/1 DATE 3: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 07/30/87 HEAT NUMBER: CXS SPECIFICATION: S4105
CAR: 0.200 MAN: 1.140 PHOS: 0.021 SUL: 0.016 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.350
TENSILE: 80.923 YIELD: 58.888 ELONGATION: 28.7 REDUCTION: 59.0 HARDNESS:

EQDOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQDOTIP1: EQDOTIP2: EQDOTIP3: EQDOTIP4: EQDOTIP5: EQDOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.200 MAN: 1.140 PHOS: 0.021 SUL: 0.026 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.270
TENSILE: 72.500 YIELD: 42.960 ELONGATION: 26.0 REDUCTION: 48.0 HARDNESS: 149 EQDOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMS=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Temper
- (4) RL=Clind, RW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Weiding Neck

ATTACHMENT 1
MRC BULLETIN BB-85 DATABASE RECORD

COMPONENT NUMBER: 7.05 LAST UPDATED: 07/09/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION
MCR: 88-043 MRI: 04291 POC: 86-98 MR: MRIR WITHDRAWAL REQ.: MR: 21740 TASK: 87-090.00

DESCRIPTION
TYPE: FLG SIZE (IN.): 1 PRESSURE: 1500 HEAT TREATMENT: SM SCHEDULE: 160 CSME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNS LOCATION: M [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: 08-96315-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17049-FN-67710 DATE 3: 1/1 VENDOR4: DATE 4: 1/1

MATERIAL CERTIFICATION
CMR DATE: 07/30/87 HEAT NUMBER: AAZ-84 SPECIFICATION: A105
CAR: 0.250 MAN: 0.730 PHOS: 0.015 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.210
TENSILE: 70.335 YIELD: 38.504 ELONGATION: 32.0 REDUCTION: 58.0 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING
DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.250 MAN: 1.350 PHOS: 0.016 SUL: 0.022 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 77.200 YIELD: 48.500 ELONGATION: 26.5 REDUCTION: 60.0 HARDNESS: 12 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SM6=Swage
- (3) ANW=Annealed, NORM=Normalized, OBT=Quench & Temper, TEM=Tempering
- (4) 5L=Blind, 8W=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 7.06 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/20/88

DOCUMENTATION

MCR: 88-04J MRI: M4291 PDC: 86-98 MRB: MRIR WITHDRAWAL REQ.: MRR: 21700 TASK: 87-090.00

DESCRIPTION

TYPE: FLG SIZE(IN.): 1 PRESSURE: 1500 HEAT TREATMENT: SC SCHEDULE: 160 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: PAYCOR ALLOYS, INC. P.O.2: 8A-96315-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-FM-67210 DATE 3: 1/1 VENDOR4: 1/1 P.O.4: 1/1

MATERIAL CERTIFICATION

CWTR DATE: 07/30/87 HEAT NUMBER: AA1-04 SPECIFICATION: SAL05
CAR: 0.250 MAN: 0.730 Y-05: 0.012 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.210
TENSILE: 70,335 YIELD: 38,504 ELONGATION: 32.0 REDUCTION: 58.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.170 MAN: 1.350 PHOS: 0.074 SUL: 0.045 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 79,000 YIELD: 46,000 ELONGATION: 27.0 REDUCTION: 70.0 HARDNESS: 159 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated from Database. DO NOT ENTER.
- 2) FLG=Flange, EL8=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 8.01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 06/20/88 30-DAY ACTION DATE: 07/28/88

DOC IDENTIFICATION

MCR: 88-043 MFI: 04517 PFC: 86-22 MR: MPR: WITHDRAWAL REQ.: MRR: 21843 TASK: 07-091.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: FF SD SCHEDULE: ASME CLASS: 2 GRADE: SAFETY RELATED: Y (Y/N)
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: # (W=WAREHOUSE, P=PLANT) 0: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 VENDOR2: RAMBOR ALLOYS, INC. P.O.2: RA-96324-M DATE 2: 1/1
VENDOR3: BEICHEL P.O.3: 17849-FR-71130 DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

QTR DATE: 09/05/87 HEAT NUMBER: 6069 SPECIFICATION: S4105
CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.009 NICK: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 06/20/88 DATE RESULTS RECEIVED: 07/01/88
CAR: 0.200 MAN: 0.840 PHOS: 0.021 SUL: 0.010 NICK: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSIL: 76.000 YIELD: 58.100 ELONGATION: 26.0 REDUCTION: 67.0 HARDNESS: 156 EQUOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LQ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 8.02 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 88-053 MRI: 04517 POC: 86-22 MR: MRIN WITHDRAWAL REQ.: MNR: 21843 TASK: 87-001.00

DESCRIPTION

TYPE: FLG SIZE (I.N.): 12 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: SA-192
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O. 2: 2A-96324-M DATE 2: 1/1
VENDOR3: BECHTEL P.O. 3: 17849-FN-7110 DATE 3: 1/1 VENDOR4: 0.000 P.O. 4: 0.000 DATE 4: 1/1

MATERIAL CERTIFICATION

QTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SA192
CAR: 0.200 MAR: 0.700 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90.270 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0.000 EQUOTIP2: 0.000 EQUOTIP3: 0.000 EQUOTIP4: 0.000 EQUOTIP AVERAGE: 0.000
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0.000

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LL=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 8.03 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 88-053 MRI: 04517 PDC: 86-22 MR: MRIP: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-001.00

DESCRIPTION

TYPE: F16 SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N] ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADWOR ALLOYS, INC. P.O.2: 0A-96324-M DATE 2: / / VENDOR3: BECHTEL P.O.3: 17049-FW-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

QWR DATE: 08/05/87 HEAT NUMBER: 6868 SPECIFICATION: SA103 CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220 TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE: HARDNESS: TENSILE: EQUOTIP6:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP 6/16:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLB=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWB=Swage
- (3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

WPC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.04 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 60-053 MRI: 04517 POC: 86-22 MR: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (M=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: / / DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: 08-96324-M DATE 2: / /
VENDOR3: BECCTEL P.O.3: 17849-FM-71130 DATE 3: / / VENDOR4: P.O.4: / / DATE 4: / /

MATERIAL CERTIFICATION

QTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SA105
CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90.710 YIELD: 73.910 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EDUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EDUOTIP1: EDUOTIP2: EDUOTIP3: EDUOTIP4: EDUOTIP5: EDUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EDUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BN=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, 50-Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8-05 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION
MCR: 88-053 MFR1: 04517 PDC: 86-72 MFR: WITHDRAWAL REQ.: MFR: 21843 TASK: 87-081.00

DESCRIPTION
TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (P=WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: DATE 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96374-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-FN-71150 DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION
MTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SA105
CAR: 0.280 MAN: 0.700 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.270
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SMG=Swage
- 3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEN=Tempering
- 4) BL=Blind, BR=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.06 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-053 MRI: 04517 PDC: 06-22 MS: _____ MRIP: _____ WITHDRAWAL REQ.: _____ MRR: 21843 TASK: 07-09'.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: _____ CATEGORY: FF 50 SCHEDULE: _____ ASME CLASS: 2 GRADE: _____
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: _____ DATE 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: 0A-96320-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17049-FR-71130 DATE 3: 1/1 VENDOR4: _____ P.O.4: _____ DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SAL105
CAR: 0.200 MGN: 0.700 PHOS: 0.012 SUL: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 70.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS: _____

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: _____

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MGN: 0.000 PHOS: 0.000 SUL: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: _____ YIELD: _____ ELONGATION: 0.0 REDUCTION: _____ HARDNESS: _____ EQUOTIP AVG.: _____

REMARKS

- *** Automatically calculated by the Database. DO NOT ENTER.
- ** FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLF-Plug, RED-Reducer, SWG-Swage
- ** ANN-Annealed, NORM-Normalized, OQT-Quench & Temper, TEM-Tempering
- ** BL-Blind, BR-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MPC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8-07 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCN: 88-073 MR1: 04517 POC: 06-22 MG: MRIR: WITHDRAWAL RES.: MR: 21843 TASK: 87-001-00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 120 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: W-WAREHOUSE, P-PLANT B: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O. 2: PA-96324-M DATE 2: / /
VENDOR3: BECKTEL P.O. 3: 17849-FM-71130 DATE 3: / / VENDOR4: P.O. 4: DATE 4: / /

MATERIAL CERTIFICATION

DATE: 08/05/87 HEAT NUMBER: 6D69 SPECIFICATION: S A105
CAR: 0.280 MAR: 0.700 PHOS: 0.012 SUL: 0.000 NIC: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.4 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: EQUOTIP AVG.:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- 11 Automatically calculated by the Database. DO NOT ENTER.
- 12 FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWG=Swage
- 13 ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 14 BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

WRC BULLETIN NO. 42 DATABASE RECORD

COMPONENT NUMBER: 8.00 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/26/88 28-DAY ACTION DATE: 07/24/88

DOCUMENTATION
 MCR: 88-053 MRI: 84517 PDC: 86-22 MR: MRIR. WITHDRAWAL REQ.: MRR: 21843 TASK: 07-001.00

DESCRIPTION
 TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEMULE: ASME CLASS: 2 GRADE:
 SYSTEM NO.: 27 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N):
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
 VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: 8A-96324-M DATE 2: / /
 VENDOR3: BECHTEL P.O.3: 17849-FM-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION
 CONTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SA193
 CAR: 0.280 MAN: 0.700 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
 TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING
 START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE:

LAB TESTING
 DATE TO LAB: / / DATE RESULTS RECEIVED: / /
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 100 Automatically calculated by the Database. DO NOT ENTER.
- 101 FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- 102 ANN-Annealed, NORM-Normalized, PAT-Bunch & Temper, TEM-Tempering
- 103 BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 8.87 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/14/88

DOCUMENTATION

MCR: 88-053 MRI: 84517 PDC: 86-22 MR: MRR: 21043 WITHDRAWAL REQ.: MRR: 21043 TASK: 87-001.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF SD SCHEDULE: ACME CLASS: 2 GRADE:
 SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 17849-18-71130 DATE 1: 1/1 VENDOR2: RADWOR ALLOYS, INC. P.O. 2: 8A-96324-M DATE 2: 1/1
 VENDOR3: BECHTEL P.O. 3: 17849-18-71130 DATE 3: 1/1 VENDOR4: P.O. 4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 08/05/87 HEAT NUMBER: 6268 SPECIFICATION: SA105
 CAR: 0.298 MAX: 0.788 PROS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOR: 0.000 SIL: 0.220
 TENSILE: 96.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAX: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOR: 0.200 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- *** Automatically calculated by the Database. DO NOT ENTER.
- ** FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EIP-Expander, PLG-Plug, RED-Reducer, SWP-Swage
- ** ANN-Annealed, NORM-Normalized, QT-Quench & temper, TEM-Tempering
- ** BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, MW-Welding Neck

ATTACHMENT 1

MHC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 0.18 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 3M-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 88-053 MRI: 04517 PFC: 06-22 MRS: 06-22 MRR: 06-22 MTR: 06-22 WITHDRAWAL REQ.: 06-22 TASK: 07-001.00

DESCRIPTION

TYPE: ELG SIZE (IN.): 12 PRESSURE: 120 HEAT TREATMENT: 0 CATEGORY: FF SD SCHEDULE: ASME CLASS: 2 GRADE: 0
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M IM-WAREHOUSE, P-PLANT1 Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1/1 VENDOR2: RAMOR ALLOYS, INC. P.O. 2: BA-96324-0 DATE 2: 1/1
VENDOR3: BECHTEL P.O. 3: 17849-FR-7110 DATE 3: 1/1 VENDOR4: 0 P.O. 4: 0 DATE 4: 1/1

MATERIAL CERTIFICATION

QTR DATE: 08/05/87 HEAT NUMBER: 6869 SPECIFICATION: S4105
CAR: 0.200 MARK: 0.700 PHOS: 0.012 SUL: 0.000 NICK: 0.000 CARB: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS: 0

EDUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EDUOTIP1: 0 EDUOTIP2: 0 EDUOTIP3: 0 EDUOTIP4: 0 EDUOTIP5: 0 EDUOTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MARK: 0.000 PHOS: 0.000 SUL: 0.000 NICK: 0.000 CARB: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EDUOTIP AVG.: 0

REMARKS

- *** Automatically calculated by the Database. DO NOT ENTER.
- ** FLO-flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLS-Plug, RED-Reducer, SMG-Swage
- ** ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- ** PL-Blind, SW-Butt Weld, FF-Flat Face, L3-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WR-Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 0-11 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-023 M01: 00517 PDC: 06-22 MR: 06-22 MRIP: 06-22 WITHDRAWAL REQ.: 06-22 TASK: 07-001.00

DESCRIPTION

TYPE: FLG SIZE(IN.): 12 PRESSURE: 150 HEAT TREATMENT: 0 CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: 0
SYSTEM NO.: 02 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: 0 (W-WAREHOUSE, P-PLANT) S: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1-1 DATE 1: 1-1 VENDOR2: RADNER ALLOYS, INC. P.O. 2: 08-96324-0 DATE 2: 1-1
VENDOR3: BECHTEL P.O. 3: 17849-18-71130 DATE 3: 1-1 VENDOR4: 0 P.O. 4: 0 DATE 4: 1-1

MATERIAL CERTIFICATION

QWR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SALFZ
CAR: 0-200 MAR: 0-700 PHOS: 0-000 SUL: 0-000 C.S.R: 0-000 MOL: 0-000 SIL: 0-220
TENSILE: 90-710 YIELD: 73-410 ELONGATION: 21-0 REDUCTION: 57-6 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1-1 DATE COMPLETED: 1-1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: 0
HARDNESS: 0 TEMPLE: 0

LAP TESTING

DATE TO LAB: 1-1 DATE RESULTS RECEIVED: 1-1
CAP: 0-000 MAR: 0-000 PHOS: 0-000 SUL: 0-000 NIC: 0-000 CAR: 0-000 MOL: 0-000 SIL: 0-000
TENSILE: 0 YIELD: 0 ELONGATION: 0-0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- * Automatically calculated by the Database. DO NOT ENTER.
- * FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, FLB=Flap, RED=Reducer, SWG=Swage
- * ANN=Annealed, NORM=Normalized, GAT=Quench & Temper, TEM=Temper
- * BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MHC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 8-12 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-021 NCR: 84517 PRC: 86-23 MCR: WITHDRAWAL REQ.: MMR: 21843 TASC: 87-001.00

DESCRIPTION

TYPE: 1.6 SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: H [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N] ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RAINOR ALLOYS, INC. P.O.2: RA-76324-H DATE 2: / / VENDOR3: RECHTEL P.O.3: 17049-FW-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: S4105 CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220 TENSILE: 70.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE: HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- ** Automatically calculated by the Database. DO NOT ENTER.
- ** Flange, Elbow, Tee, Cap, DPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Ceage
- ** ANN-normalized, NORM-Normalized, BQT-Quench & Temper, TEM-Tempering
- ** R-Blind, RW-Full Weld, FF-Flat Face, L3-Laced Joint, RF-Raised Face, RJ-Ring Joint, SD-Slip On, SW-Socket Weld, TH-Threaded, WW-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.13 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 88-053 M01: 04517 PDC: 86-23 M0: WRIR WITHDRAWAL REQ.: NBR: 21043 TASM: 87-001.00

DESCRIPTION
TYPE: FLS SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: FF SB SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: H (M-WAREHOUSE, P-PLANT) 0: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: P3J P.O. 1: 1/1 VENDOR2: BAUNOR ALLOYS, INC. P.O. 2: 08-96324-0 DATE 2: 1/1
VENDOR3: RECITEC P.O. 3: 17049-10-71130 VENDOR4: 1/1 P.O. 4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SAINP
CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.000 CDR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 70,710 YIELD: 73,410 ELONGATION: 27.0 REDUCTION: 57.0 HARDNESS:

EQQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQQUOTIP1: EQQUOTIP2: EQQUOTIP3: EQQUOTIP4: EQQUOTIP5: EQQUOTIP AVERAGE:
HARDNESS: EQQUOTIP6:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CDR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQQUOTIP AVG.:

REMARKS

- 1. Automatically calculated by the Database. DO NOT ENTER.
- 2. Flange, Elbow, Tee, Cap, Cpl-Expander, Exp-Reducer, Plug, Red-Reducer, SWB-Swage
- 3. ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- 4. R-Blind, RW-Butt Weld, FF-Flat Face, LH-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WW-Welding Neck

ATTACHMENT 1
MHC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 8.34 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MR: 88-051 MR1: 84517 PDC: 86-22 MR: WITHDRAWAL REQ.: MR: 21841 TASK: 87-001.00

DESCRIPTION

TYPE: F16 SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF SD SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 27 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: IN WAREHOUSE, P-PLUMBING S: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR: PSI P.O. 1: / / VENDOR2: RADFOR ALLOYS, INC. P.O. 2: RA-96324-M DATE 2: / /
VENDOR3: BECHTEL P.O. 3: 17849-FR-71138 DATE 3: / / VENDOR4: P.O. 4: / /

MATERIAL CERTIFICATION

CMR DATE: 08/05/87 HEAT NUMBER: 6869 SPECIFICATION: SA193
CAR: 0.288 MAN: 0.788 PHOS: 0.012 SUL: 0.009 NIT: 0.009 CHR: 0.009 MOL: 0.009 SIL: 0.228
TENSILE: 90.738 YIELD: 73.418 ELONGATION: 27.8 REDUCTION: 57.6 HARDNESS:

EQUTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE:
HARDNESS: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

- Automatically calculated by the Database. DO NOT ENTER.
- F16-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLE-Plug, RED-Reducer, SW6-Swage
- AW-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- Bl-Blind, BR-Butt Weld, FF-Flat Face, LD-Lapped Joint, RR-Raised Face, RJ-Ring Joint, SB-Slip On, SM-Socket Weld, TH-Threaded, WS-Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8-15 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 SW-DAY ACTION DATE⁽¹⁾: 07/24/88

DOCUMENTATION

NCR: 88-053 MRI: 44517 PDC: 96-22 MR: MRIR: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE⁽²⁾: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT⁽³⁾: CATEGORY⁽⁴⁾: FF SO SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: W (W=WAREHOUSE, P=PLANT) Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-W DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FW-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SAL05
CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90,710 YIELD: 73,410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: HARDNESS: 0 EQUOTIP AVG.:

REMARKS

⁽¹⁾ Automatically calculated by the Database. DO NOT ENTER.

⁽²⁾ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWB=Swage

⁽³⁾ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

⁽⁴⁾ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.16 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-053 MRI: 04517 PDC: 86-22 MR: MRIR WITHDRAWAL REQ.: MRR: 21043 TASK: 87-081.00

DESCRIPTION

TYPE: F1A SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: 33 CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 43 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (M-WAREHOUSE, P-PLANT) R: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 1/1 DATE 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: 0A-96374-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17049-FM-71130 DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CONTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SAL105
CAR: 0.280 MAN: 0.700 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, OQT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

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COMPONENT NUMBER: 8.17 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE⁽¹⁾: 07/24/88

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DOCUMENTATION

NCR: 88-053 MRI: M4517 PDC: 86-22 MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MRR: 21843 TASK: 87-081.00

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DESCRIPTION

TYPE⁽²⁾: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT⁽³⁾: _____ CATEGORY⁽⁴⁾: FF SO SCHEDULE: _____ ASME CLASS: 2 GRADE: _____
SYSTEM NO.: 25 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: W [W=WAREHOUSE, -PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: _____

=====

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: _____ DATE 1: 1/1 VENDOR2: NADNOR ALLOYS, INC. P.O.2: RA-96324-N DATE 2: 1/1
VENDOR3: BECKTEL P.O.3: 17849-FW-71130 DATE 3: 1/1 VENDOR4: _____ P.O.4: _____ DATE 4: 1/1

=====

MATERIAL CERTIFICATION

CMTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: S3105
CAR: 0.280 MAN: 0.780 PHOS: 0.012 SUL: 0.009 NICK: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90,710 YIELD: 73,410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS: _____

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EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: 0

=====

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NICK: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: _____ HARDNESS: 0 EQUOTIP AVG.: _____

=====

REMARKS

⁽¹⁾ Automatically calculated by the Database. DO NOT ENTER.

⁽²⁾ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

⁽³⁾ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

⁽⁴⁾ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 8-18 LAST UPDATED: 07/15/89 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 83-053 MRI: M4517 POC: 86-22 MR: MRIR MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE: FL6 SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: FF SO SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALI SERVICE WATER SYSTEM LOCATION: M [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-M DATE 2:
VENDOR3: BECHTEL P.O.3: 17849-FH-71130 DATE 3: VENDOR4: P.O.4: DATE 4:

MATERIAL CERTIFICATION

CNTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SAL105
CAR: 4-200 MAN: 0-780 PHOS: 0-012 SUL: 0-000 NIC: 0-000 CHR: 0-000 MOL: 0-000 SIL: 0-220
TENSILE: 90,710 YIELD: 73,410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: DATE COMPLETED: EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: DATE RESULTS RECEIVED:
CAR: 0-000 MAN: 0-000 PHOS: 0-000 SUL: 0-000 NIC: 0-000 CHR: 0-000 MOL: 0-000 SIL: 0-000
TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL6=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Jnt, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.12 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-053 MRI: 04517 PDC: 86-22 MR: 00000 MRR: 21843 WITHDRAWAL REQ.: 00000 TASK: 87-081.06

DESCRIPTION

TYPE: FLS SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: 000 CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: 000
 SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (M=WAREHOUSE, P=PLANT) Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
 ACCESSIBLE: Y [Y/N] DRAWING NUMBER: 00000

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 00000 DATE 1: 00/00/00 VENDOR2: RADNOR ALLOYS, INC. P.O.2: 88-96324-M DATE 2: 00/00/00
 VENDOR3: BECHTEL P.O.3: 17849-FR-71130 DATE 3: 00/00/00 VENDOR4: 00000 P.O.4: 00000 DATE 4: 00/00/00

MATERIAL CERTIFICATION

CNTR DATE: 08/25/87 HEAT NUMBER: 6069 SPECIFICATION: SAT05
 CAR: 0.280 MAN: 0.700 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
 TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS: 000

EQUOTIP TESTING

START DATE: 00/00/00 DATE COMPLETED: 00/00/00 EQUOTIP1: 000 EQUOTIP2: 000 EQUOTIP3: 000 EQUOTIP4: 000 EQUOTIP5: 000 EQUOTIP AVERAGE: 000
 HARDNESS: 000 TENSILE: 000

LAB TESTING

DATE TO LAB: 00/00/00 DATE RESULTS RECEIVED: 00/00/00
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 000 YIELD: 000 ELONGATION: 00.0 REDUCTION: 00.0 HARDNESS: 000 EQUOTIP AVG.: 000

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLB=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWB=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 8.28 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION
NCR: 88-053 M01: 04517 PDC: 86-22 W01: 06 MRIR: 06 WITHDRAWAL REQ.: 06 MRR: 21843 TASK: 87-001.00

DESCRIPTION
TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: 06 CATEGORY: FF SO SCHEDULE: ASME CLASS: 2 GRADE: 06
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM L-CATION: N [M=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: 06

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 06 DATE 1: 06 VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-N DATE 2: 06
VENDOR3: BECHTEL P.O.3: 17849-FR-71130 DATE 3: 06 VENDOR4: 06 P.O.4: 06 DATE 4: 06

MATERIAL CERTIFICATION
CMR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SAT05
CAR: 0.200 MAN: 0.780 PHOS: 0.012 SUL: 0.000 NIC: 0.000 CHR: 0.000 HDL: 0.000 SIL: 0.220
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS: 06

EQUOTIP TESTING
START DATE: 06 DATE COMPLETED: 06 EQUOTIP1: 06 EQUOTIP2: 06 EQUOTIP3: 06 EQUOTIP4: 06 EQUOTIP5: 06 EQUOTIP AVERAGE: 06
HARDNESS: 06 TENSILE: 06

LAB TESTING
DATE TO LAB: 06 DATE RESULTS RECEIVED: 06
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 HDL: 0.000 SIL: 0.000
TENSILE: 06 YIELD: 06 ELONGATION: 06 REDUCTION: 06 HARDNESS: 06 EQUOTIP AVG.: 06

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
 NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.21 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-053 MRI: 04517 PDC: 06-22 MR: WRIR WITHDRAWAL REQ: WRIR MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: FF S0 SCHEDULE: ASME CLASS: 2 GRADE: SA114S
 SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [M=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
 ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RAMOR ALLOYS, INC. P.O.2: RA-96324-M DATE 2: / /
 VENDOR3: BECHTEL P.O.3: 17849-FM-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SA114S
 CAR: 0.280 MAN: 0.780 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
 TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, LAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, L=Lapped Joint, RF=Raised Face, RJ=Ring Joint, S0=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 0.22 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE^{1**}: 07/24/88

DOCUMENTATION

NCR: 88-053 MRI: 04517 PDC: 86-22 MR: MRIR: WITHDRAWAL REQ.: MRR: 21843 TASK: 07-081.00

DESCRIPTION

TYPE^{2**}: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT^{3**}: CATEGORY^{4**}: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: W (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: -

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-W DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FW-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SA105
CAR: 0.280 MAN: 0.700 PHOS: 0.012 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90,710 YIELD: 73,410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: HARDNESS: 0 EQUOTIP AVG.:

REMARKS

^{1**} Automatically calculated by the Database. DO NOT ENTER.

^{2**} FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

^{3**} ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

^{4**} BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

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COMPONENT NUMBER: 8.23 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE⁽¹⁾: 07/24/88

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DOCUMENTATION

NCR: 88-053 MRI: 04517 PDC: 86-22 MR: _____ MR'R: _____ WITHDRAWAL REQ.: _____ MRR: 21843 TASK: 87-001.90

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DESCRIPTION

TYPE⁽²⁾: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT⁽³⁾: _____ CATEGORY⁽⁴⁾: FF SO SCHEDULE: _____ ASME CLASS: 2 GRADE: _____
 SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: # [W=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
 ACCESSIBLE: Y [Y/N] DRAWING NUMBER: _____

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CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: _____ DATE 1: / / VENDOR2: RADWOR ALLOYS, INC. P.O.2: RA-96324-W DATE 2: / /
 VENDOR3: BECHTEL P.O.3: 17849-FW-71130 DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

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MATERIAL CERTIFICATION

CNTR DATE: 08/05/81 HEAT NUMBER: 6019 SPECIFICATION: SA105
 CAR: 0.280 MAN: 0.700 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
 TENSILE: 90,710 YIELD: 73,410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS: _____

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EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
 HARDNESS: _____ TENSILE: #

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LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: # YIELD: # ELONGATION: #.# REDUCTION: _____ HARDNESS: # EQUOTIP AVG.: _____

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REMARKS

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⁽¹⁾ Automatically calculated by the Database. DO NOT ENTER.
⁽²⁾ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
⁽³⁾ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
⁽⁴⁾ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.24 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 88-053 MRI: M4517 POC: 86-22 MRG: MRR1R MRR: 21843 WITHDRAWAL RED.: TASK: 87-001.00

DESCRIPTION

TYPE: FLG SIZE(IN.): 12 PRESSURE: 150 HEAT TREATMENT: SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: W (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-M DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FW-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SA105
CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 95.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 4) RL=Blind, RM=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.25 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-053 MRI: 04517 PDC: 86-22 MR: MRIR WITHDRAWAL REG.: MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: SSME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [W=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: VENDOR2: RAMOR ALLOYS, INC. P.O.2: RA-96324-M DATE 2:
VENDOR3: BECCTEL P.O.3: 17849-FM-71130 DATE 3: VENDOR4: P.O.4: DATE 4:

MATERIAL CERTIFICATION

CNTR DATE: 08/05/87 HEAT NUMBER: 6049 SPECIFICATION: SAL05
CAR: 0.780 MAN: 0.780 PHOS: 0.012 SUL: 0.000 NICK: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 98.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: DATE COMPLETED: EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIPS: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: DATE RESULTS RECEIVED:
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NICK: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EIP=Expander, PLG=Plug, RED=Reducer, SMG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.26 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION
MCR: 88-053 M01: #4517 PDC: 86-22 MRC: MRIR: MITHURAMAL RED.: MRR: 21043 TASK: 87-081.00

DESCRIPTION
TYPE: FL6 SIZE (IN.): 12 PRESSURE: 156 HEAT TREATMENT: FF SD CATEGORY: FF SD SCHEDULE: ASME CLASS: 2 GRADE: SAFETY RELATED: Y (Y/N)
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: W (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: / / DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-W DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FM-71130 DATE 3: / / VENDOR4: / / P.O.4: / / DATE 4: / /

MATERIAL CERTIFICATION
CMR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SA105
CAR: 0.280 MAN: 0.700 PHOS: 0.012 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SI1: 0.220
TENSILE: 70.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: / / EQUOTIP2: / / EQUOTIP3: / / EQUOTIP4: / / EQUOTIP5: / / EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SI1: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANW=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 9.27 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-053 MRI: 04517 PDC: 86-22 MR: MRIR: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE: FLG SITE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: LOCATION: 9 (M=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-N DATE 2: / /
VENDOR3: BECHTEL DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SA105
CAR: 0.280 MAR: 0.700 PHOS: 0.007 SUL: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS:

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CFL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.28 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-053 MR1: 04517 PDC: 86-22 MR: MRIR: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF S0 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADWOR ALLOYS, INC. P.O.2: RA-96324-M DATE 2: / /
VENDOR3: BECNTEL P.O.3: 17849-FM-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNR DATE: 08/05/87 HEAT NUMBER: 0269 SPECIFICATION: SA105
CAR: 0.280 MAN: 0.780 PHOS: 0.012 SUL: 0.009 NIC: 0.000 CHR: 0.000 MOL: 0.220 SIL: 0.220
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8-79 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 88-053 MBI: M4517 PDC: 86-22 MRD: MRIR: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M-WAREHOUSE, P-PLANT G: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSJ P.O.1: DATE 1: / / VENDOR2: RAMOR ALLOYS, INC. P.O.2: RA-96374-M DATE 2: / /
VENDOR3: BECKTEL P.O.3: 17849-FM-71132 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: 06/05/87 HEAT NUMBER: 6069 SPECIFICATION: S4105
CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.600 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMS=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, RW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.2A LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION
MCR: 88-053 MRL: 84517 POC: 86-22 MR: MRIR: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-081.00

DESCRIPTION
TYPE: F16 SIZE (IN.): 1.2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: H (H=WAREHOUSE, P=PLANT) B: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O. 1: 1.1 VENDOR2: RADNOR ALLOYS, INC. P.O. 2: RA-96324-H DATE 2: 1.1
VENDOR3: BECHTEL P.O. 3: 17869-FW-71130 DATE 3: 1.1 VENDOR4: P.O. 4: DATE 4: 1.1

MATERIAL CERTIFICATION
CMTA DATE: 06/05/87 HEAT NUMBER: 6069 SPECIFICATION: SAI05
CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.270
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING
START DATE: 1.1 DATE COMPLETED: 1.1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: 1.1 DATE RESULTS RECEIVED: 1.1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS
Automatically calculated by the Database. DO NOT ENTER.
F16=Flange, ELB=Elbow, TEE, COP, CPL=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SW6=Swage
ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.31 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 88-023 MRI: M4517 POC: 86-22 MRB: MR1R: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: 1/1 VENDOR2: RADWOR ALLOYS, INC. P.O.2: RA-96374-M DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17849-FM-71130 DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: S4105
CAR: 0.200 MARK: 0.700 PHOS: 0.012 SUL: 0.002 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90,710 YIELD: 73,410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MARK: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TES, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMS=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, CW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 0.32 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-053 MRI: 04517 PDC: 86-22 MR: MRIR: WITHDRAWAL REQ.: MRR: 21043 TASK: 37-081.00

DESCRIPTION

TYPE: FLG SITE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 30 SCHEDULE: ASME CLASS: 2 GRADE:
 SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96374-M DATE 2:
 VENDOR3: BECKTEL P.O.3: 17049-FN-71130 DATE 3: VENDOR4: P.O.4: DATE 4:

MATERIAL CERTIFICATION

QTR DATE: 02/05/87 HEAT NUMBER: 6069 SPECIFICATION: SAMS
 CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
 TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUTIP TESTING

START DATE: DATE COMPLETED: EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE:
 HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: DATE RESULTS RECEIVED:
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUTIP AVG.:

REMARKS

- 11) Automatically calculated by the Database. DO NOT ENTER.
- 12) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- 13) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 14) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 0.31 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 JOB-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 88-053 MRR: 04517 POC: 86-22 MR: MRR: WITHDRAWAL REQ.: TASK: 87-001.00

DESCRIPTION

TYPE: FLG SIZE(IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M (M=WAREHOUSE, P=PLANT) 0: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-M DATE 2:
VENDOR3: BECCTEL P.O.3: 17849-FM-71130 DATE 3: VENDOR4: P.O.4: DATE 4:

MATERIAL CERTIFICATION

CMR DATE: 08/05/87 HEAT NUMBER: 6069 SPECIFICATION: SAT05
CAR: 0.200 MAN: 0.700 PHOS: 0.012 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 90.710 YIELD: 73.410 ELONGATION: 27.0 REDUCTION: 57.6 HARDNESS:

EQUOTIP TESTING

START DATE: DATE COMPLETED: EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: DATE RESULTS RECEIVED:
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, OBT=Quench & Temper, TEM=Tempering
- 4) RL=Blind, BK=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1

NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 8.34 LAST UPDATED: 07/28/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: 88-053 NRI: M4517 PDC: 86-22 MR: MRIR: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-081.08

DESCRIPTION

TYPE: FL6 SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: M [M-WAREHOUSE, P-PLANT] Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-M DATE 2: / / VENDOR3: BECHTEL P.O.3: 17849-FH-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CTR DATE: 08/05/87 HEAT NUMBER: CFM SPECIFICATION: SA105 CAR: 0.210 MAN: 1.310 PHOS: 0.018 SUL: 0.014 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240 TENSILE: 84.623 YIELD: 54.084 ELONGATION: 12.5 REDUCTION: 64.5 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE: HARDNESS: TENSILE: EQUOTIP AVG.:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 101 Automatically calculated by the Database. DO NOT ENTER.
- 102 FL6-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- 103 ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-tempering
- 104 BL-Blind, BW-Butt Weld, FF-Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.35 LAST LOG DATED: 07/19/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

NCR: NONE NPI: 04517 PDC: 86-22 MR: WITHDRAWAL REQ.: MNR: 21843 TASK: 87-001.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 1 PRESSURE: 150 HEAT TREATMENT: FF SD SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCAL: N: [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: / / VENDOR2: BARNOR ALLOYS, INC. P.O.2: BA-96374-M DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FR-71130 DATE 3: / / VENDOR4: P.O.4: / /

MATERIAL CERTIFICATION

CMR DATE: 08/05/87 HEAT NUMBER: CFM SPECIFICATION: SA105
CAR: 0.210 MAN: L.310 PHOS: 0.018 SUL: 0.014 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 64,623 YIELD: 54,084 ELONGATION: 32.5 REDUCTION: 64.5 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: # TENSILE: #

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: # YIELD: # ELONGATION: #.# REDUCTION: # HARDNESS: # EQUOTIP AVG.:

REMARKS

- 101 Automatically calculated by the Database. DO NOT ENTER.
- 102 FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWS=Swage
- 103 ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 104 BL=Blind, RW=Butt Weld, FF=Flat Face, LI=Lapped Joint, RP=Raised Face, RJ=Ring Joint, SO=Socket On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8-36 LAST UPDATED: 07/29/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

NCR: NONE MFR: M4517 PDC: 86-22 MS: MRR: WITHDRAWAL REQ.: MRR: 21843 TASK: 87-081.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 1 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96374-M DATE 2: / /
VENDOR3: BECNTEL P.O.3: 17849-FW-71130 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 08/05/87 HEAT NUMBER: CND SPECIFICATION: SA105
CAR: 0.280 MAN: 0.750 PHOS: 0.015 SUL: 0.011 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 78,444 YIELD: 46,365 ELONGATION: 30.0 REDUCTION: 47.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVS:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG-Flange, ELB-Elbow, TEE, CAP, SPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- 3) ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- 4) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 8.37 LAST UPDATED: 07/28/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

NCR: NONE MGI: M4517 POC: 86-22 MR: MTR: WITHDRAWAL REQ.: MRR: 21841 TASK: 87-001.00

DESCRIPTION

TYPE: FLG SIZE(IN.): 6 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRUMING NUMBER:

ORIGIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: VENDOR2: RADNOR ALLOYS, INC. P.O.2: RA-96324-M DATE 2:
VENDOR3: BECCTEL P.O.3: 17847-FR-71130 DATE 3: VENDOR4: P.O.4: DATE 4:

MATERIAL CERTIFICATION

DATE: 06/07/87 HEAT NUMBER: CFY SPECIFICATION: SAT05
CAR: 0.25% MAN: 1.35% PHOS: 0.010 SUL: 0.039 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.270
TENSILE: 84,725 YIELD: 53,890 ELONGATION: 35.0 REDUCTION: 67.8 HARDNESS:

EQUOTIP TESTING

START DATE: DATE COMPLETED: EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIPS: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: DATE RESULTS RECEIVED:
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.060
TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- * Automatically calculated by the Database. DO NOT ENTER.
- * FLG=Flange, ELB=Elbow, TEE, CAP, CFL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage
- * ANN=Annealed, NORM=Normalized, GAT=Quench & Temper, TEM=Tempering
- * BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1

NRC BULLETIN 80-85 DATABASE RECORD

COMPONENT NUMBER: 2.01 LAST UPDATED: 07/27/88 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE: 07/27/88

DOCUMENTATION

NCR: 88-059 NPI: 098-1 POC: 02-10 NRS: WRIR WITHDRAWAL REQ.: WRIR MRR: 1899 TASK: 02-0022

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 900 HEAT TREATMENT: AS CATEGORY: AF SW SCHEDULE: 20 ASME CLASS: 2 GRADE: SA106
 SYSTEM NO.: 1 SYSTEM DESCRIPTION: CONTROL ROD DRIVE & HYDRAULIC SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) G: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER: FSK-P-129

CHAIN OF PURCHASE

VENDOR1: BM P.O. 1: 2548 DATE 1: 1/1 VENDOR2: STANDARD PIPE & SUPPLY P.O. 2: 7484 DATE 2: 1/1
 VENDOR3: BECCTEL P.O. 3: 17849-FM-11120 DATE 3: 08/01/83 VENDOR4: WRIR P.O. 4: WRIR DATE 4: 1/1

MATERIAL CERTIFICATION

CTR DATE: 07/27/83 HEAT NUMBER: 37862 SPECIFICATION: SA106
 CAR: 0.300 MAN: 0.650 PHOS: 0.023 SUL: 0.023 NIT: 0.000 CARB: 0.000 MOL: 0.000 SIL: 0.230
 TENSILE: 79,000 YIELD: 51,000 ELONGATION: 31.0 REDUCTION: 57.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 07/27/88 DATE COMPLETED: 07/27/88 EQUOTIP1: 411 EQUOTIP2: 414 EQUOTIP3: 412 EQUOTIP4: 414 EQUOTIP5: 418 EQUOTIP AVERAGE: 413
 HARDNESS: 148 TENSILE: 72,000

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CARB: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- ** Automatically calculated by the Database. DO NOT ENTER.
- ** FLG=Flange, ELB=Elbow, TEE, CAP, LPI=Coupling, EIP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- ** ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- ** BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket On, SM=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1
MPC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 9.02 LAST UPDATED: 07/27/88 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE: 07/22/88

DOCUMENTATION
MOR: 02-052 MRI: 0000-1 POC: 02-10 MR: MRIR: WITHDRAWAL REQ.: SUP: 1876 TASK: 02-0022

DESCRIPTION
TYPE: FLG SIZE(IN.): 2 PRESSURE: 900 HEAT TREATMENT: CATEGORY: AF SB SCHEDULE: 80 ASME CLASS: 2 GRADE:
SYSTEM NO.: 1 SYSTEM DESCRIPTION: CONTROL ROD DRIVE & HYDRAULIC SYSTEM LOCATION: P (W=WAREHOUSE, P=PLANT) Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: FSK-P-129

CHAIN OF PURCHASE
P.O. 1: 2548 DATE 1: / / VENDOR2: STANDARD PIPE & SUPPLY P.O. 2: 7484 DATE 2: / /
VENDOR1: B/M P.O. 3: 17049-FM-11120 DATE 3: 08/01/83 VENDOR4: P.O. 4: DATE 4: / /

MATERIAL CERTIFICATION
DATE: 07/27/83 HEAT NUMBER: 37862 SPECIFICATION: SA105
CAR: 0.100 MAR: 0.650 PHOS: 0.006 SUL: 0.021 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 72,000 YIELD: 51,000 ELONGATION: 31.0 REDUCTION: 57.0 HARDNESS:

EQUTIP TESTING
START DATE: 07/21/88 DATE COMPLETED: 07/21/88 EQUTIP1: 408 EQUTIP2: 408 EQUTIP3: 408 EQUTIP4: 405 EQUTIP5: 413 EQUTIP AVERAGE: 408
HARDNESS: 144 TENSILE: 69,500

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, DPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, SW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 2.03 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE⁽¹⁾: 07/22/88

DOCUMENTATION
MCR: 88-040 MBI: 0098-1 POC: 02-10 MR: 001 MGR: 1898 WITHDRAWAL REQ.: 02-0022 TASK: 02-0022

DESCRIPTION
TYPE⁽²⁾: FLG SIZE (IN.): 2 PRESSURE: 900 HEAT TREATMENT⁽³⁾: RF SW SCHEDULE: 80 ASME CLASS: 2 GRADE:
SYSTEM NO.: 1 SYSTEM DESCRIPTION: CONTROL ROD DRIVE & HYDRAULIC SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: N (Y/N) DRAWING NUMBER: FSR-P-129

CHAIN OF PURCHASE
VENDOR: WJM P.O. 1: 2548 DATE 1: 1/1 VENDOR 2: STANDARD PIPE & SUPPLY P.O. 2: 7484 DATE 2: 1/1
VENDOR: BECHTEL P.O. 3: 17849-FM-11120 DATE 3: 09/01/83 VENDOR 4: 001 P.O. 4: 001 DATE 4: 1/1

MATERIAL CERTIFICATION
CMR DATE: 07/27/83 HEAT NUMBER: 37862 SPECIFICATION: S4105
CAR: 0.300 MARK: 0.650 PHOS: 0.006 SUL: 0.021 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 79.000 YIELD: 51.000 ELONGATION: 31.0 REDUCTION: 57.0 HARDNESS:

EQUTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: 001 EQUTIP2: 001 EQUTIP3: 001 EQUTIP4: 001 EQUTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MARK: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

⁽¹⁾ Automatically calculated by the Database. DO NOT ENTER.
⁽²⁾ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
⁽³⁾ ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
⁽⁴⁾ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 2.04 LAST UPDATED: 07/27/88 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE (**): 07/22/88

DOCUMENTATION

NCR: 88-079 M01: 0070-1 POC: 82-10 MR: MRR: 1898 WITHDRAWAL REV.: TASK: 82-0722

DESCRIPTION

TYPE (**): FLG SITE (IN.): 2 PRESSURE: 900 HEAT TREATMENT (**): CATEGORY (**): RF SW SCHEDULE: 80 ASME CLASS: 2 GRADE:
SYSTEM NO.: 3 SYSTEM DESCRIPTION: CONTROL ROD DRIVE & HYDRAULIC SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: ESK-P-130

CHAIN OF PURCHASE

VENDOR1: NJM P.O.1: 2548 DATE 1: 1/1 VENDOR2: STANDARD PIPE & SUPPLY P.O.2: 7404 DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 17049-FN-11120 DATE 3: 09/01/83 VENDOR4: P.O.4: VENDOR5: DATE 4: 1/1

MATERIAL CERTIFICATION

QTR DATE: 07/27/83 HEAT NUMBER: 37862 SPECIFICATION: S4105
CAR: 0.300 MAN: 0.650 PHOS: 0.006 SUL: 0.023 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 79.000 YIELD: 51.000 ELONGATION: 31.0 REDUCTION: 57.0 HARDNESS:

EQUOTIP TESTING

START DATE: 07/21/88 DATE COMPLETED: 07/21/88 EQUOTIP1: 403 EQUOTIP2: 403 EQUOTIP3: 404 EQUOTIP4: 405 EQUOTIP5: 404 EQUOTIP AVERAGE: 404
HARDNESS: 141 TENSILE: 62.000

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMG=Swage
- (*) ANN=Annealed, NORM=Normalized, QNT=Quench & Temper, TEM=Tempering
- (*) BL=Blind, SW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MW=Welding Neck

ATTACHMENT 1

NPC BULLETIN 38-85 DATABASE RECORD

COMPONENT NUMBER: 2.01 LAST UPDATED: 07/27/88 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE (**): 07/22/88

DOCUMENTATION

NCR: 68-059 MRI: 0898-1 POC: 82-18 MR: NRIR WITHDRAWAL REC.: ARR: 1898 TASK: 82-0022

DESCRIPTION

TYPE (**): FLG SIZE (IN.): 2 PRESSURE: 900 HEAT TREATMENT (**): AF SK SCHEDULE: 80 ASME CLASS: 2 GRADE:
SYSTEM NO.: 1 SYSTEM DESCRIPTION: CONTROL ROD DRIVE & HYDRAULIC SYSTEM LOCATION: P [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: FSK-P-130

CHAIN OF PURCHASE

VENDOR1: AM P.O.1: 2548 DATE 1: / / VENDOR2: STANDARD PIPE & SUPPLY P.O.2: 7484 DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17807-FR-11120 DATE 3: 08/01/83 VENDOR4: DATE 4: / /

MATERIAL CERTIFICATION

QTR DATE: 07/27/83 HEAT NUMBER: 37862 SPECIFICATION: SAT05
CAR: 0.100 MAN: 0.050 PHOS: 0.022 SUL: 0.000 NICK: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 79,000 YIELD: 51,000 ELONGATION: 31.0 REDUCTION: 57.0 HARDNESS:

EQDOTIP TESTING

START DATE: 07/21/88 DATE COMPLETED: 07/21/88 EQDOTIP1: 420 EQDOTIP2: 421 EQDOTIP3: 426 EQDOTIP4: 422 EQDOTIP5: 421 EQDOTIP AVERAGE: 421
HARDNESS: 121 TENSILE: 74,000

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NICK: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQDOTIP AVG.: 0

REMARKS

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (*) GNM=General, NORM=Normalized, GAT=Quench & Temper, TEM=Tempering
- (*) BL=Blind, SW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=RJ-Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WH=Welding Neck

ATTACHMENT 1

MRC RULLETTIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 2.06 LAST UPDATED: 07/13/88 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE: 07/22/88

DOCUMENTATION

NCR: 88-060 MNR: M098-1 POC: 87-10 MR: MRR: WITHDRAWAL REQ.: MRR. 1898 TASK: 87-0022

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRE-SURE: 900 HEAT TREATMENT: CATEGORY: 3F SW SCHEDULE: 60 ASME CLASS: 2 GRADE: SYSTEM NO.: 1 SYSTEM DESCRIPTION: CONTROL ROD DRIVE & HYDRAULIC SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: N (Y/N) DRAWING NUMBER: FSK-P-130

CHAIN OF PURCHASE

VENDOR1: MJA P.O.1: 2548 DATE 1: / / VENDOR2: STANDARD PIPE & SUPPLY P.O.2: 7404 DATE 2: / / VENDOR3: BECHTEL P.O.3: 27849-FM-11126 DATE 3: 09/01/83 VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 07/27/83 HEAT NUMBER: A7862 SPECIFICATION: SA105 CAR: 0.300 MAN: 0.650 PHOS: 0.023 SUL: 0.023 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230 TENSILE: 79.000 YIELD: 51.000 ELONGATION: 31.0 REDUCTION: 57.0 HARDNESS:

EQUTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE: HARDNESS: 0 TENSILE: 0

L-3 TESTING

DATE TO LBP: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, WG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, JW=Welding Neck

ATTACHMENT 1
MRC BULLETIN 89-05 DATABASE RECORD

COMPONENT NUMBER: 10.01 LAST UPDATED: 07/27/88 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE: 07/22/88

DOCUMENTATION
MCR: 88-045 MRI: 63015 POC: 79-31 MR: C4-50-15 MRR: 84-J16 WITHDRAWAL REQ.: 476032 MPR: 6941 TASK: 02-144

DESCRIPTION
TYPE: FLG SIZE (IN.): 4 PRESSURE: 150 HEAT TREATMENT: RF BL SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: CJA-57-6

CHAIN OF PURCHASE
VENDOR1: MZN P.O.1: 3224 DATE 1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 1062-22 DATE 2: 1/1
VENDOR3: REWTEL P.O.3: 63015 DATE 3: 07/23/84 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION
CMR DATE: 07/07/84 HEAT NUMBER: 75065 SPECIFICATION: S4105
CAR: 0.270 MGN: 0.990 PHOS: 0.010 SUL: 0.023 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.310
TENSILE: 81.019 YIELD: 44.394 ELONGATION: 26.0 REDUCTION: 60.0 HARDNESS:

EQUOTIP TESTING
START DATE: 07/22/88 PASTE COMPLETED: 07/22/88 EQUOTIP1: 419 EQUOTIP2: 425 EQUOTIP3: 426 EQUOTIP4: 427 EQUOTIP5: 427 EQUOTIP AVERAGE: 426
HARDNESS: 149 TENSILE: 72.400

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MGN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS
** Automatically calculated by the Database. DO NOT ENTER.
** FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWG=Swage
** ANW=Annealed, NQHW=Normalized, Q&T=Quench & Temper, TEM=Tempering
** BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, 50-Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 18-02 LAST UPDATED: 07/27/88 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE: 07/27/88

DOCUMENTATION

MCR: 88-045 MRI: 63015 PDC: 79-31 MR: 84-50-15 MRIP: 84-746 WITHDRAWAL REQ.: 476032 MRR: 6941 TASK: 87-144

DESCRIPTION

TYPE: 16 SIZE (IN.): 4 PRESSURE: 150 HEAT TREATMENT: 0 CATEGORY: RF BL SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 1E SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: CIA-57-6

CHAIN OF PURCHASE

VENDOR1: 6JM DATE 1: 1/1 VENDOR2: PULLMAN PR. PRODUCTS P.O.2: 1062-22 DATE 2: 1/1
VENDOR3: BECHTEL DATE 3: 07/23/84 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 07/07/84 HEAT NUMBER: 75065 SPECIFICATION: SAL05
CAR: 0.270 MAN: 0.990 PHOS: 0.010 SUL: 0.023 NIC: 0.000 CHR: 0.000 MOL: 0.900 STL: 0.310
TENSILE: 81.012 YIELD: 44.394 ELONGATION: 26.0 REDUCTION: 60.0 HARDNESS:

EDUOTIP TESTING

START DATE: 07/22/88 DATE COMPLETED: 07/22/88 EDUOTIP1: 425 EDUOTIP2: 429 EDUOTIP3: 421 EDUOTIP4: 421 EDUOTIP5: 427 EDUOTIP AVERAGE: 424
HARDNESS: 147 TENSILE: 71.300

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 STL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCT,ON: 0 HARDNESS: 0 EDUOTIP AVG.:

REMARKS

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FLG=Flange, ELB=Elbow, TEE, CAP, DFL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SMS=Swage
- (*) GWN=Annealed, NORM=Normalized, QLT=Quench & Temper, TEM=Tempering
- (*) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-F: DATABASE RECORD

COMPONENT NUMBER: 11.01 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 88-053 MRJ: PDC: MR: MGR: WITHDRAWAL REQ.: MGR: TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 600 HEAT TREATMENT: CATEGORY: RF 00 SCHEDULE: 40 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: H (H=WAREHOUSE, P=PLANT) Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: WJM P.O.1: 6701-A DATE 1: 1/1 VENDOR2: PULLMAN PRR. PRODUCTS P.O.2: DATE 2: 11/06/79
VENDOR3: P.O.3: DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CONTR DATE: 11/06/79 HEAT NUMBER: 03779 SPECIFICATION: S4105
CAR: 0.220 MAN: 0.670 PHOS: 0.008 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 72,000 YIELD: 47,000 ELONGATION: 34.0 REDUCTION: 60.3 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: EQUOTIP AVG.:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- *** Automat. ally calculated by the Database. DO NOT ENTER.
- ** FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SW6=Swage
- *. . . NW=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- *** L=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WH=Welding Neck

ATTACHMENT 1
MRC BULLETIN 80-85 DATABASE RECORD

COMPONENT NUMBER: 11.02 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/24/88 30-DAY ACTION DATE: 07/24/88

DOCUMENTATION

MCR: 02-023 MRP: _____ MRB: _____ WITHDRAWAL REQ.: _____ TASK: _____
 POC: _____ MRP: _____ MRB: _____

DESCRIPTION

TYPE: FLG SIZE (IN.): 1/2 PRESSURE: 0.000 HEAT TREATMENT: AS CATEGORY: RF WN SCHEDULE: 40 ASME CLASS: GRABE
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: IN-WAREHOUSE, P-PLANT Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: MJM P.O.1: 6701-A DATE 1: 11/06/77 VENDOR2: PULLMAN PNE. PRODUCTS P.O.2: _____ DATE 2: 1/1
 VENDOR3: _____ P.O.3: _____ DATE 3: 1/1 VENDOR4: _____ P.O.4: _____ DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 11/06/77 HEAT NUMBER: 83779 SPECIFICATION: S.A105
 CAR: 0.270 PPM: 0.670 PHOS: 0.008 SUL: 0.020 NIC: 0.006 CHR: 0.000 MOL: 0.000 SIL: 0.240
 TENSILE: 72.000 YIELD: 47.000 ELONGATION: 34.0 REDUCTION: 60.3 HARDNESS: _____

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
 HARDNESS: _____ TENSILE: _____

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: _____ YIELD: _____ ELONGATION: 0.0 REDUCTION: _____ HARDNESS: _____ EQUOTIP AVG.: _____

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, FLG-Plug, RED-Reducer, SMS-Swage
- (3) ANW-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- (4) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
 NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 11.01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
 MCR: NONE MR1: POC: MR: MR19: WITHDRAWAL REQ.: MRB: TASK:

DESCRIPTION
 TYPE: FLG SITE (IN.): 12 PRESSURE: 600 HEAT TREATMENT: CATEGORY: 2F-WH SCHEMILE: 4# ASME CLASS: GRADE:
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
 VENDOR1: RJM P.O.1: 676-A DATE 1: 11/06/77 VENDOR2: PULLMAN PR. PRODUCTS P.O.2: DATE 2: 1/1
 VENDOR3: P.O.3: DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION
 CNTR DATE: 11/06/77 HEAT NUMBER: 03779 SPECIFICATION: S.A.M.S
 CAR: 0.22# MAN: 0.67# %MS: 0.00# SUL: 0.02# NIC: 0.00# CHR: 0.00# MOL: 0.00# SLL: 0.24#
 TENSILE: 72.00# YIELD: 47.00# FLOWNATION: 14.0 REDUCTION: 60.3 HARDNESS:

EQUOTIP TESTING
 START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE: 0

LAB TESTING
 DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.00# MAN: 0.00# PHOS: 0.00# SUL: 0.00# NIC: 0.00# CHR: 0.00# MOL: 0.00# SLL: 0.00#
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (1) Automaticaly calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, SW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 11.04 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

NCR: None MRI: _____ PDC: _____ MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MFR: _____ TASK: _____

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 600 HEAT TREATMENT: _____ CATEGORY: RF WH SCHEDULE: 4# ASME CLASS: _____ GRADE: _____
SYSTEM NO.: _____ SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: [W-WAREHOUSE, P-PLANT] G: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: RJM P.O.1: 6701-A DATE 1: 11/06/79 VENDOR2: PULLMAN PRM. PRODUCTS P.O.2: _____ DATE 2: 1/1
VENDOR3: _____ P.O.3: _____ DATE 3: 1/1 VENDOR4: _____ P.O.4: _____ DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 11/06/79 HEAT NUMBER: 83779 SPECIFICATION: SALCC
CAR: 0.720 MAN: 0.670 PHOS: 0.000 SUL: 0.070 NI: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 72.000 YIELD: 47.000 ELONGATION: 14.0 REDUCTION: 60.3 HARDNESS: _____

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: _____

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NI: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: _____ YIELD: _____ ELONGATION: 0.0 REDUCTION: _____ HARDNESS: _____ EQUOTIP AVG.: _____

REMARKS

- *) Automatically calculated by the Database. DO NOT ENTER.
- *) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- *) ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- *) RL-Ring, RW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WS-Welding Neck

ATTACHMENT I
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 11-05 LAST UPDATED: 07/09/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCR: None MFI: CQC: MRB: MTR: WITHDRAWAL RED.: TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 600 HEAT TREATMENT: CATEGORY: RF WR SCHEDULE: 40 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: [W-WAREHOUSE, P-PLANT] G: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR 1: WJ P.O. 1: 67-1-A DATE 1: 11/06/79 VENDOR 2: PULLMAN PWR. PRODUCTS P.O. 2: 1/1
VENDOR 3: P.O. 3: DATE 3: 1/1 VENDOR 4: P.O. 4: 1/1

MATERIAL CERTIFICATION

CTR DATE: 11/06/79 HEAT NUMBER: 0372 SPECIFICATION: SAL05
CAR: 0.220 MAN: 0.670 PHOS: 0.000 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 72,000 YIELD: 47,000 ELONGATION: 34.0 REDUCTION: 60.3 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- 3) ANW-Annealed, NORM-Normalized, OQT-Quench & Temper, TEM-Tempering
- 4) 90-Blted, 90-Butt Weld, FF-Flat Face, LJ=Lapped Joint, RF-Raised Face, RJ-Ring Joint, SG-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MPC BULLETIN 89-05 DATABASE RECORD

COMPONENT NUMBER: 11-06 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCR: NONE MRI: PDC MR: MRIR MWR: WITHDRAWAL REQ.: MRR: TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 600 HEAT TREATMENT: AF #8 SCHEDULE: 4B ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: N/A P.O.1: 6701-A DATE 1: 11/06/79 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: * DATE 2: 1/1
VENDOR3: P.O.3: DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMTR DATE: 11/06/79 HEAT NUMBER: 03-79 SPECIFICATION: S A193
CAR: 0-220 MAN: 0-670 PHOS: 0.008 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 72,000 YIELD: 47,000 ELONGATION: 14.0 REDUCTION: 60.3 HARDNESS:

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

- 11) Automatically calculated by the Database. PC NOT ENTER.
- 12) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 13) ANW=Annealed, NDRM=Normalized, QNT=Quench & Temper, TEM=Tempering
- 14) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MW=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 12.01 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/09/88 30-DAY ACTION DATE: 08/07/88

DOCUMENTATION

MCR: 88-055 M01: 04144 PDC: 86-51 MR: 06/23/87 M02: 06/23/87 WITHDRAWN: RED. MNR: 20082 TASK: 87-012.21

DESCRIPTION

TYPE: FLG SIZE (IN.): 20 PRESSURE: 150 HEAT TREATMENT: 0 CATEGORY: FF 50 SCHEDULE: ASME CLASS: GRADE: 0
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: 0 (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0100C-35

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O. 2: 1/1
VENDOR3: BECKTEL P.O. 3: 17849-FMS-54784 DATE 3: 06/23/87 VENDOR4: 0 P.O. 4: 1/1

MATERIAL CERTIFICATION

CWTR DATE: 07/14/87 HEAT NUMBER: 16472 SPECIFICATION: S410S
CAR: 0.200 MAN: 0.920 PHOS: 0.023 SUL: 0.027 NIT: 0.000 CMB: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 74,927 YIELD: 43,333 ELONGATION: 20.0 REDUCTION: 53.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CMB: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLB-Plug, RED-Reducer, SWB-Swage
- (3) ANN-Annealed, NORM-Normalized, BQT-Bunch & Temper, TEM-Tempering
- (4) BL-Blind, RW-Butt Weld, FF-Flat face, LJ-Lapped joint, Rf-Raised face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 12.62 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/08/88 JOB-BAY ACTION DATE: 08/07/88

DOCUMENTATION
MCR: 88-055 MRI: 04144 PDC: 06-51 MR: MSIR WITHDRAWAL REQ.: MSR: 2002 TASK: 07-012.21

DESCRIPTION
TYPE: FLG SIZE (IN.): 20 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: P [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: R1005-35

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADNOR ALLOYS, INC. P.O.2: DATE 2: / /
VENDOR3: BECHTEL P.O.3: 17849-FMS-54786 DATE 3: 06/23/87 VENDOR4: DATE 4: / /

MATERIAL CERTIFICATION
CMR DATE: 07/14/87 HEAT NUMBER: 16472 SPECIFICATION: SAL05
CAR: 0.200 MAN: 0.220 PHOS: 0.021 SUL: 0.027 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.780
TENSILE: 74.927 YIELD: 43.333 ELONGATION: 28.0 REDUCTION: 53.0 HARDNESS:

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG-Flange, ELB-Elbow, rEE, rNP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- 3) ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- 4) BL-Blind, BW-Butt Weld, CF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT I
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 12.03 LAST UPDATED: 07/15/89 30-DAY ACTION DATE: 08/07/89

DOCUMENTATION

NCR: 88-052 M01: 04144 PVC: 86-51 M0: M0R: WITHDRAWAL RED.: M0R: 20082 TASK: 87-012.21

DESCRIPTION

TYPE: FLG SIZE (IN.): 20 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF 50 SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) D: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0100C-35

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: 17049-TMS-54780 DATE 1: 1/1 VENDOR2: RADNOR ALLOYS, INC. P.O.2: 1/1 DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 06/23/87 VENDOR4: P.O.4: 06/23/87 DATE 4: 1/1

MATERIAL CERTIFICATION

CMTR DATE: 07/14/87 HEAT NUMBER: 16472 SPECIFICATION: SA102
CHR: 0.200 HAN: 0.920 PHOS: 0.023 SUL: 0.027 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 74.277 YIELD: 43.333 ELONGATION: 28.0 REDUCTION: 53.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CHR: 0.000 HAN: 0.000 PHOS: 0.000 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- Automatically calculated by the Database. DO NOT ENTER.
- FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1

MHC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 13.01 LAST UPDATED: 08/05/88 DATE IDENTIFIED: 07/08/88 JOB-DAY ACTION DATE: 08/07/88

DOCUMENTATION

MCR: 88-054 MFI: 03901 PDC: 07-24 MR: MHR: WITHDRAWAL REQ.: MRR: 10330 TASK: 07-005.75

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF SD SCHEDULE: ASME CLASS: 2 GRADE: SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P [W-WAREHOUSE, P-PLANT] G: Y L: (N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: Y (Y/N) DRAWING NUMBER: F5A-P-347

CHAIN OF PURCHASE

VENDOR1: J2M P.O. 1: 4807 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O. 2: 066-006# DATE 2: / / VENDOR3: BECFTEL P.O. 3: F046330 DATE 3: 06/28/87 VENDOR4: P.O. 4: DATE 4: / /

MATERIAL CERTIFICATION

QTR DATE: 04/22/87 HEAT NUMBER: 212234 SPECIFICATION: SA193 CAR: 0.20# MAN: 0.02# PHOS: 0.00# SUL: 0.013# NIC: 0.00# CHR: 0.00# MOL: 0.00# SIL: 0.20# TENSILE: 77,000 YIELD: 49,700 ELONGATION: 12.0# REDUCTION: 59.0# HARDNESS:

EQWOTIP TESTING

START DATE: 08/02/88 DATE COMPLETED: 08/02/88 EQWOTIP1: 422 EQWOTIP2: 414 EQWOTIP3: 413 EQWOTIP4: 412 EQWOTIP5: 412 EQWOTIP AVERAGE: 413 HARDNESS: 149 TENSILE: 77,000

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.00# MAN: 0.00# PHOS: 0.00# SUL: 0.00# NIC: 0.00# CHR: 0.00# MOL: 0.00# SIL: 0.00# TENSILE: 0# YIELD: 0# ELONGATION: 0.0# REDUCTION: 0# HARDNESS: 0# EQWOTIP AVG.:

REMARKS

SSW CROSS READER - SCREEN ROUSE

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 13.02 LAST UPDATED: 08/05/88 DATE IDENTIFIED: 07/08/88 30-DAY ACTION DATE: 08/07/88

DOCUMENTATION:

C.R.: 03-024 P.R.: M3903 P.O.C.: 87-24 M.R.: 18330 WITHDRAWAL REQ.: 18330 TASK: 87-005.25

DESCRIPTION

TYPE: FL6 SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: SA105
 SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
 ACCESSIBLE: Y [Y/N] DRAWING NUMBER: FSK-P-149

CHAIN OF PURCHASE

VENDOR1: BECHTEL P.O. 1: 4001 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O. 2: 066-0060 DATE 2: 1/1
 VENDOR3: BECHTEL P.O. 3: 1046130 DATE 3: 04/28/87 VENDOR4: BECHTEL P.O. 4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

CMTR DATE: 04/22/87 HEAT NUMBER: 212234 SPECIFICATION: SA105
 CAR: 0.200 MAN: 0.000 SUL: 0.015 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200
 TENSILE: 72,000 YIELD: 49,700 ELONGATION: 12.0 REDUCTION: 58.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 08/07/88 DATE COMPLETED: 08/07/88 EQUOTIP1: 423 EQUOTIP2: 423 EQUOTIP3: 423 EQUOTIP4: 425 EQUOTIP5: 426 EQUOTIP AVERAGE: 424
 HARDNESS: 148 TENSILE: 72,000

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

SSM CROSS HEADER - SCREEN NOISE

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL6-Flange, EL6-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PL6-Plug, RED-Reducer, SW6-Swage
- 3) ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEN-Tempering
- 4) RL-Roll, BW-Butt Weld, FF-Flat Face, LL-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 13.03 LAST UPDATED: 08/05/88 DATE IDENTIFIED: 07/08/88 30-DAY ACTION DATE: 08/07/88

DOCUMENTATION

NCR: 88-054 NRI: 03703 PDC: 07-24 MR: 0000 MRIR: 0000 WITHDRAWAL REQ.: 0000 TASK: 07-005.25

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: 0000 CATEGORY: FF SD SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 27 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: FSE-P-749

CHAIN OF PURCHASE

VENDOR1: 000 P.O. 1: 000 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O. 2: 066-0060 DATE 2: 1/1
VENDOR3: BICENTEL P.O. 3: 7440330 DATE 3: 04/28/87 VENDOR4: 000 P.O. 4: 000 DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 04/22/87 HEAT NUMBER: 212234 SPECIFICATION: SAL05
CAR: 0.280 MAN: 0.820 PHOS: 0.000 SUL: 0.015 NIP: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 77.000 YIELD: 49.700 ELONGATION: 12.0 REDUCTION: 58.0 HARDNESS:

EQUOTIP TESTING

START DATE: 08/02/88 DATE COMPLETED: 08/02/88 EQUOTIP1: 428 EQUOTIP2: 425 EQUOTIP3: 428 EQUOTIP4: 418 EQUOTIPS: 424 EQUOTIP AVERAGE: 426
HARDNESS: 151 TENSILE: 73.200

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIP: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

SSM CROSS HEADER - SCREEN NOISE

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWB=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) BL=Blend, BW=Butt Weld, FF=Flat Face, L=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
WRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 13.04 LAST UPDATED: 08/05/88 DATE IDENTIFIED: 07/08/88 30-DAY ACTION DATE: 08/07/88

DOCUMENTATION
MCR: 88-054 MRI: 03901 PDC: 07-24 MR: _____ MPR: _____ WITHDRAWAL REQ.: _____ MRP: 1813# TASK: 87-005.25

DESCRIPTION
TYPE: FLG SIZE/IN.: 12 PRESSURE: 15# HEAT TREATMENT: _____ CATEGORY: FF SD SCHEDULE: ASME CLASS: 2 GRADE: _____
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: FSM-P-349

CHAIN OF PURCHASE
VENDOR1: BJM P.O.1: 4007 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O.2: D66-006# DATE 2: 1/1
VENDOR3: BECCTEL P.O.3: F046330 DATE 3: 04/28/87 VENDOR4: _____ P.O.4: _____ DATE 4: 1/1

MATERIAL CERTIFICATION
QTR DATE: 04/22/87 HEAT NUMBER: 212234 SPECIFICATION: SALTS
CAR: 0.280 MAN: 0.000 SUL: 0.015 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 77.000 YIELD: 49.700 ELONGATION: 33.0 REDUCTION: 59.0 HARDNESS: _____

EDUOTIP TESTING
START DATE: 08/02/88 DATE COMPLETED: 08/07/88 EDUOTIP1: 426 EDUOTIP2: 422 EDUOTIP3: 424 EDUOTIP4: 425 EDUOTIP5: 425 EDUOTIP AVERAGE: 425
HARDNESS: 140 TENSILE: 77.000

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: _____ HARDNESS: 0 EDUOTIP AVG.: _____

REMARKS
SSW CROSS HEADER - SCREEN HOUSE

1) Automatically calculated by the Database. DO NOT ENTER.
2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
4) RL=Roll, WB=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 13.05 LAST UPDATED: 08/05/88 DATE IDENTIFIED: 07/08/88 30-DAY ACTION DATE: 08/07/88

DOCUMENTATION

MCR: 88-054 MWI: 03901 PDC: 87-24 MR: MHR: WITHDRAWAL REQ.: NMR: 1833# TASK: 87-005.25

DESCRIPTION

TYPE: 16 SIZE (IN.): 1/2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: FSK-P-349

CHAIN OF PURCHASE

VENDOR1: 02# P.O.1: 4807 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0060 DATE 2: / /
VENDOR3: RECHTEL P.O.3: F046330 DATE 3: 04/28/87 VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: 04/22/87 HEAT NUMBER: 212234 SPECIFICATION: SA105
CAR: 0.200 MGN: 0.020 PHOS: 0.000 SUL: 0.015 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 77,000 YIELD: 49,700 ELONGATION: 32.0 REDUCTION: 58.0 HARDNESS:

EQUOTIP TESTING

START DATE: 08/03/88 DATE COMPLETED: 08/03/88 EQUOTIP1: 418 EQUOTIP2: 428 EQUOTIP3: 428 EQUOTIP4: 422 EQUOTIP5: 418 EQUOTIP AVERAGE: 419
HARDNESS: 147 TENSILE: 71,300

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MGN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

SSW CROSS HEADER - SCREEN HOUSE

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) Flg-Flange, Elb-Elbow, Tee, Cap, CPL-Coupling, EXP-Expander, PLB-Plug, RED-Reducer, SM6-Swage
- (3) ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- (4) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, MW-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 23.06 LAST UPDATED: 07/19/86 DATE IDENTIFIED: 06/22/88 30-DAY ACTION DATE: 07/22/88

DOCUMENTATION

MCR: 0001 MRR: 03003 POC: 07-24 MR: 0000 MRIR: 0000 WITHDRAWAL REQ.: 0000 MRR: 18300 TASK: 07-005.25

DESCRIPTION

TYPE: FLG SIZE (IN.): 2.0 PRESSURE: 150 HEAT TREATMENT: 0000 CATEGORY: FF-50 SCHEDULE: ASME CLASS: 2 GRADE: 0000
SYSTEM NO.: 27 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: 0 [Y/N] DRAWING NUMBER: 0000

CHAIN OF PURCHASE

VENDOR1: 0000 P.O.1: 4007 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0060 DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: F066330 DATE 3: 04/28/87 VENDOR4: 0000 P.O.4: 0000 DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 04/22/87 HEAT NUMBER: 212234 SPECIFICATION: SAL05
CAR: 0.280 MAN: 0.000 PHOS: 0.015 SUL: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 77.000 YIELD: 49.700 ELONGATION: 32.0 REDUCTION: 50.0 HARDNESS: 000

EDUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EDUOTIP1: 0000 EDUOTIP2: 0000 EDUOTIP3: 0000 EDUOTIP4: 0000 EDUOTIP AVERAGE: 0000
HARDNESS: 000 TENSILE: 000

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 000 YIELD: 000 ELONGATION: 0.0 REDUCTION: 000 HARDNESS: 000 EDUOTIP AVG.: 0000

REMARKS

- *** Automatically calculated by the Database. DO NOT ENTER.
- 00 FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWG=Swage
- 01 ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 02 BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SP=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 11-07 LAST UPDATED: 07/09/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MR: NONE MBI: 03903 PDC: 07-24 MRG: MRIR: WITHDRAWAL REQ.: MRR: 18330 TASK: 07-005-25

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: BJM P.O. 1: 4007 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O. 2: 066-0060 DATE 2: 1/1
VENDOR3: BECHTEL P.O. 3: FM46330 DATE 3: 04/28/87 VENDOR4: P.O. 4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMTR DATE: 04/22/87 HEAT NUMBER: 212274 SPECIFICATION: SAL105
CAR: 0-200 WRM: 0-020 PHOS: 0.000 SUL: 0.215 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 77.000 YIELD: 49.700 ELONGATION: 32.0 REDUCTION: 58.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0-200 WRM: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWG=Swage
- (*) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEN=Tempering
- (*) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WR=Welding Neck

ATTACHMENT 1

MPC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 11.00 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MR: NONE M01: 03901 P0C: 07-24 MR: MR10 WITHDRAWAL REQ.: MR: 1830 TASK: 07-005.25

DESCRIPTION

TYPE: FLG SIZE (IN.): 12 PRESSURE: 150 HEAT TREATMENT: 1 CATEGORY: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: 1
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: BJM P.O. 1: 4507 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O. 2: 066-0060 DATE 2: 1/1
VENDOR3: BECCTEL P.O. 3: F046130 DATE 3: 04/28/87 VENDOR4: P.O. 4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 04/22/87 HEAT NUMBER: 212234 SPECIFICATION: SAL75
CAR: 0.200 MIN: 0.820 PHOS: 0.000 SUL: 0.015 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 77.000 YIELD: 49.700 ELONGATION: 12.0 REDUCTION: 50.0 HARDNESS:

EDUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EDUOTIP1: EDUOTIP2: EDUOTIP3: EDUOTIP4: EDUOTIP5: EDUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MIN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: REDUCTION: HARDNESS: EDUOTIP AVS.:

REMARKS

- 1. Automatically calculated by the Database. DO NOT ENTER.
- 2. FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3. ANN=Annealed, NORM=Normalized, DBT=Quench & Temper, TEM=Tempering
- 4. BL=Blind, SB=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 13-02 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 07/08/88 30-DAY ACTION DATE: 08/07/88

DOCUMENTATION

NCR: 88-054 MRI: 03903 PDC: 07-24 MR: NR1R WITHDRAWAL REQ.: NRN: 18330 TASK: 87-005.25

DESCRIPTION

TYPE: FLG SIZE (N.I.): 2 PRESSURE: 150 HEAT TREATMENT: FF 50 SCHEDULE: ASME CLASS: 2 GRADE: SA106
SYSTEM NO.: 22 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANTS) 0: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: F38-P-349

CHAIN OF PURCHASE

VENDOR1: ARM P.O. 1: 4807 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O. 2: 066-0060 DATE 2: 1/1
VENDOR3: BECHTEL P.O. 3: F046134 DATE 3: 04/28/87 VENDOR4: NR1R P.O. 4: NR1R DATE 4: 1/1

MATERIAL CERTIFICATION

CTR DATE: 04/22/87 HEAT NUMBER: 602 SPECIFICATION: SA106
CAR: 0.200 MAR: 0.750 PHOS: 0.017 SUL: 0.007 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 87.663 YIELD: 20.575 ELONGATION: 22.0 REDUCTION: 43.0 HARDNESS: NR1R

EQUOTIP TESTING

START DATE: 08/02/88 DATE COMPLETED: 08/07/88 EQUOTIP1: 191 EQUOTIP2: 188 EQUOTIP3: 190 EQUOTIP4: 193 EQUOTIP5: 194 EQUOTIP AVERAGE: 191
HARDNESS: 126 TENSILE: 60.500

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: NR1R

REMARKS

SSW CROSS HEADER - SCREEN HOUSE

- 1. Automatically calculated by the Database. DO NOT ENTER.
- 2. FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- 3. ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- 4. RL-Round, RW-Butt Weld, FF-Fillet Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, MW-Welding Neck

ATTACHMENT 1

WRC BULLETIN RB-W5 DATABASE RECORD

COMPONENT NUMBER: 13.10 LAST UPDATED: 07/09/88 DATE IDENTIFIED: 1/1 20-DAY ACTION DATE: 1/1

DOCUMENTATION

WCR: NONE WRI: 83703 PDC: 87-24 WRC: MSIP WITHDRAWAL REQ.: MSIP TASK: 87-005.23

DESCRIPTION

TYPE: FLS SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: FF SD SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: WJN P.O.1: 4907 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0060 DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: 1044130 DATE 3: 04/29/87 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 04/22/87 HEAT NUMBER: CO1 SPECIFICATION: SAMS
CAR: 0.200 MAN: 0.750 PHOS: 0.017 SUL: 0.027 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 87.663 YIELD: 50.572 ELONGATION: 72.0 REDUCTION: 43.0 HARDNESS:

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.150 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

- (1) Automatically calculated by the database. DO NOT ENTER.
- (2) Flg-Flange, Elb-Elbow, Tee, Cap, Cpl-Coupling, Exp-Expander, Plug-Plug, Red-Reducer, SW-Swage
- (3) ANN-Annealed, NORM-Normalized, Q&T-Quench & Temper, TEM-Tempering
- (4) R-Blind, W-Butt Weld, FF-Flat Face, LL-Lapped Joint, P-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 12.11 LAST UPDATED: 08/05/88 30-DAY ACTION DATE: 08/07/88

DOCUMENTATION
MCR: 88-054 MRR: 83903 PDC: 87-24 MR: MRIR: WITHDRAWAL RED.: MRR: 18330 TASK: 87-005.25

DESCRIPTION
TYPE: FLG SIZE (IN.): 6 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF MH SCHEDULE: 4# ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRINKING NUMBER: FSM-P-349

CHAIN OF PURCHASE
P.O. 1: 4007 DATE 1: 04/22/87 VENDOR: CONSOLIDATED POWER P.O. 2: 066-0000 DATE 2: 1/1
VENDOR: WJH P.O. 3: 1846330 DATE 3: 04/28/87 VENDOR: P.O. 4: DATE 4: 1/1
VENDOR: BECHTEL

MATERIAL CERTIFICATION
CMT# DATE: 04/22/87 HEAT NUMBER: 000 SPECIFICATION: SALW3
CAR: 0.200 MAR: 0.750 PHOS: 0.011 SUL: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 70,444 YIELD: 46,365 ELONGATION: 10.0 REDUCTION: 47.0 HARDNESS:

EQUOTIP TESTING
START DATE: 08/02/88 DATE COMPLETED: 08/02/88 EQUOTIP1: 435 EQUOTIP2: 435 EQUOTIP3: 433 EQUOTIP4: 439 EQUOTIP5: 432 EQUOTIP AVERAGE: 434
HARDNESS: 161 TENSILE: 70,500

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: HARDNESS: 0 EQUOTIP AVG.:

REMARKS
SSM CROSS READER - SCREEN HOUSE

- ** Automatically calculated by the Database. DO NOT ENTER.
- ** FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- ** ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- ** BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 12.12 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/23/88 30-DAY ACTION DATE: 07/23/88

DOCUMENTATION
MCR: 88-053 M01: 07903 POC: 87-24 MR: M01R: WITHDRAWAL REQ.: M0R: 18338 TASP: 87-005.25

DESCRIPTION
TYPE: F16 SIZE (IN.): 6 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF MH SCHEDULE: 40 ASME CLASS: 2 GRADE:
SYSTEM NO.: 29 SYSTEM DESCRIPTION: SALT SERVICE WATER SYSTEM LOCATION: 0 (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: 028 DATE 1: 04/22/87 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0010 DATE 2: 1/1
VENDOR3: BECAITEL DATE 3: 04/28/87 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION
CMT# DATE: 04/22/87 HEAT NUMBER: C02 SPECIFICATION: S2102
CAR: 0.200 MAR: 0.750 PHOS: 0.011 SUL: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.210
TENSILE: 70,444 YIELD: 46,365 ELONGATION: 30.0 REDUCTION: 47.0 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FL=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (*) ANN=Annealed, NORH=Normalized, OAT=Quench & Temper, TEM=Tempering
- (*) BL=Blind, HW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1

MPC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 14.81 LAST UPDATED: 8/11/88 DATE IDENTIFIED: 8/27/88 30-DAY ACTION DATE: 9/27/88

DOCUMENTATION

NCR: 88-853 MFR: 88811 PDC: 87-238 MR: MMR: WITHDRAWAL REQ.: MGR: 19977 TASK: 87-838.88

DESCRIPTION

TYPE: FL6 SIZE (IN.): 6 PRESSURE: 150 HEAT TREATMENT: CATEGORY: 88 SCHEDULE: 16 ASME CLASS: 1 GRADE:
 SYSTEM NO.: 1 SYSTEM DESCRIPTION: MAIN STEAM LOCATION: M (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: 828 P.O. 1: 4796 DATE 1: 8/14/87 VENDOR2: CONSOLIDATED POWER P.O. 2: 866-8878 DATE 2: 1/1
 VENDOR3: BECHTEL P.O. 3: F855840 DATE 3: 8/28/87 VENDOR4: P.O. 4: DATE 4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 8/14/87 HEAT NUMBER: 37862 SPECIFICATION: SAS185
 CAR: 8.388 MAN: 8.658 PHOS: 8.886 SUL: 8.823 NIC: 8.888 CHR: 8.888 MOL: 8.888 SIL: 8.238
 TENSILE: 79.888 YIELD: 51.888 ELONGATION: 31.8 REDUCTION: 57.8 HARDNESS:

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE:
 HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 8.888 MAN: 8.888 PHOS: 8.888 SUL: 8.888 NIC: 8.888 CHR: 8.888 MOL: 8.888 SIL: 8.888
 TENSILE: YIELD: ELONGATION: 8.8 REDUCTION: HARDNESS: EQUTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL6-Flange, EL6-Elbow, EE, CAP, CPL-Coupling, EXP-Expander, PL6-Plug, RED-Reducer, SW6-Swage
- 3) ANN-Annealed, NOM-Normalized, QT-Quench & Temper, TEM-Tempering
- 4) BL-Blind, BW-Butt Weld, F-Flat Face, L-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SB-Slip On, SK-Socket Weld, TH-Threaded, MW-Welding Neck

ATTACHMENT 1
MPC BULLETIN BB-W5 DATABASE RECORD

COMPONENT NUMBER: 14.02 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE: 07/27/88

DOCUMENTATION

NCR: 88-053 M01: 04011 PDC: 87-258 MR: M019: WITHDRAWAL REQ.: M01: 19977 TASK: 87-038.00

DESCRIPTION

TYPE: 1.6 SIZE (IN.): 6 PRESSURE: 150 HEAT TREATMENT: CATEGORY: 00 SCHEDULE: 100 ASME CLASS: 1 GRADE:
SYSTEM NO.: 1 SYSTEM DESCRIPTION: MAIN STEAM LOCATION: 0 (M-WAREHOUSE, P-PLANT) Q: 1 (Y/N) SAFETY RELATED: 1 (Y/N)
ACCESSIBLE: 1 (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: 001 VENDOR2: CONSOLIDATED POWER P.O. 2: 066-0078 DATE 2: 1/1
VENDOR3: BECTEL P.O. 3: 0550040 DATE 3: 06/20/87 VENDOR4: P.O. 4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 06/04/87 HEAT NUMBER: 37862 SPECIFICATION: SA105
CAR: 0.300 MAN: 0.650 PHOS: 0.006 SUL: 0.021 NIC: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.230
TENSILE: 79.000 YIELD: 51.000 ELONGATION: 31.0 REDUCTION: 57.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.600 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVS.:

REMARKS

- Automatically calculated by the Database. DO NOT ENTER.
- FLG=Flange, ELB=Elbow, TEE, CAP, CPI=Coupling, EXP=Expander, FLE=Plug, RED=Reducer, SWG=Swage
- ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MW=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-WS DATABASE RECORD

COMPONENT NUMBER: 15.01 LAST UPDATED: 07/11/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE: 07/17/88

DOCUMENTATION

MCR: 88-053 M01: 04011 PDC: 07-238 MR: 07-238 M02: 07-238 WITHDRAWAL REQ.: 07-038.00 TASK: 07-038.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 16 PRESSURE: 300 HEAT TREATMENT: 0 CATEGORY: RF 00 SCHEDULE: 00 ASME CLASS: I GRADE: 0
SYSTEM NO.: 1 SYSTEM DESCRIPTION: MAIN STEAM LOCATION: IN WAREHOUSE, P-PLANT Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0

CHAIN OF PURCHASE

VENDOR1: 0 P.O. 1: 4794 DATE 1: 05/19/87 VENDOR2: CONSOLIDATED POWER P.O. 2: 066-0078 DATE 2: 1/1
VENDOR3: BECHTEL P.O. 3: FMS0040 DATE 3: 1/1 VENDOR4: 0 P.O. 4: 0 DATE 4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 05/19/87 HEAT NUMBER: 56053 SPECIFICATION: SAL75
CAR: 0.290 MAN: 0.920 PHOS: 0.010 SUL: 0.023 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.210
TENSILE: 07.500 YIELD: 54.000 ELONGATION: 29.0 REDUCTION: 55.0 HARDNESS: 0

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: 0 EQUTIP2: 0 EQUTIP3: 0 EQUTIP4: 0 EQUTIP5: 0 EQUTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.: 0

REMARKS

- 101 Automatically calculated by the Database. DO NOT ENTER.
- 102 FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLB-Plug, RED-Reducer, SW6-Swage
- 103 ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- 104 BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WW-Welding Neck

ATTACHMENT 1
MBC BULLETIN 88-MS DATABASE RECORD

COMPONENT NUMBER: 15-02 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE: 07/27/88

DOCUMENTATION

MCR: 88-053 M81: 04011 PDC: 87-258 MS: _____ MS1R: _____ WITHDRAWAL REQ.: _____ M8R: 18Y87 TASK: 87-038-00

DESCRIPTION

TYPE: FLG SIZE(LIN.): 10 PRESSURE: 300 HEAT TREATMENT: _____ CATEGORY: RF 00 SCHEDULE: 40 ASME CLASS: 1 GRADE: _____
SYSTEM NO.: 1 SYSTEM DESCRIPTION: MAIN STEAM LOCATION: W-WAREHOUSE, P-PLANT, B: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: BJM P.O. 1: 4794 DATE 1: 05/19/87 VENDOR2: CONSOLIDATED POWER P.O. 2: 066-0078 DATE 2: 1/1
VENDOR3: BECCTEL P.O. 3: FMS0040 DATE 3: 1/1 VENDOR4: _____ P.O. 4: _____ DATE 4: 1/1

MATERIAL CERTIFICATION

QWR DATE: 05/19/87 HEAT NUMBER: 54023 SPECIFICATION: SAB2
CAR: 0.290 WMS: 0.920 PHOS: 0.010 SUL: 0.023 NTC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.210
TENSILE: 87,500 YIELD: 54,400 ELONGATION: 29.0 REDUCTION: 55.0 HARDNESS: _____

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: _____

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 WMS: 0.000 PHOS: 0.000 SUL: 0.000 NTC: 0.200 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: _____ YIELD: _____ ELONGATION: 0.0 REDUCTION: _____ HARDNESS: _____ EQUOTIP AVG.: _____

REMARKS

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWP-Swage
- (*) ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- (*) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WS-Welding Neck

ATTACHMENT 1

NRC BULLETIN 85-05 DATABASE RECORD

COMPONENT NUMBER: 15.03 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE: 07/27/88

ACQUISITION

NCR: 88-053 MS#: M4911 POC: 87-238 MR: NRIR WITHDRAWAL REQ.: NRIR MRR: 18987 TASK: 87-038.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: SA105 CATEGORY: RF-MN SCHEDULE: 40 ASME CLASS: 3 GRADE:
 SYSTEM NO.: 1 SYSTEM DESCRIPTION: MAIN STEAM LOCATION: H [W=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
 ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: NJM P.O.1: 4794 DATE 1: 05/19/87 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0070 DATE 2: 1/1
 VENDOR3: BECATEL P.O.3: F85084 DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 05/19/87 HEAT NUMBER: 56053 SPECIFICATION: SA105
 CAR: 0.295 MAN: 0.29 PHOS: 0.010 SUL: 0.023 NIC: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.210
 TENSILE: 67.300 YIELD: 54.400 ELONGATION: 29.0 REDUCTION: 55.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANF=Annealed, NORM=Normalized, GQT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 15.04 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 06/27/83 30-DAY ACTION DATE: 07/27/88

DOCUMENTATION

NCR: 88-053 M01: 04011 POC: 87-258 NR: MRR: WITHDRAWAL REQ.: MRR: 18967 TASK: 87-038.00

DESCRIPTION

TYPE: FLG SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: CATEGORY: AF #N SCHEDULE: 4# ASME CLASS: 3 GRADE: LOCATION: W (W-WAREHOUSE, P-PLANT) B: Y (Y/N) SAFETY RELATED: Y (Y/N)
SYSTEM NO.: 1 SYSTEM DESCRIPTION: MAIN STEAM DRAWING NUMBER:
ACCESSIBLE: Y (Y/N)

CHAIN OF PURCHASE

VENDOR1: WJM P.O.1: 4794 DATE 1: 05/19/87 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0078 DATE 2: / /
VENDOR3: BECHTEL P.O.3: FMS0040 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: 05/19/87 HEAT NUMBER: 56053 SPECIFICATION: SA105
CAR: 0.29# MGR: 0.22# PHOS: 0.01# SUL: 0.023 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.21#
TENSILE: 87.50# YIELD: 55.40# ELONGATION: 29.0 REDUCTION: 55.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: EQUOTIP AVERAGE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.00# MAN: 0.00# PHOS: 0.05# SUL: 0.00# NIC: 0.00# CHR: 0.00# MOL: 0.00# SIL: 0.00#
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWB=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MSC BULLETIN 60-05 DATABASE RECORD

COMPONENT NUMBER: 16.01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MR: 4267 PDC: 86-528 MO: MRIR WITHDRAWAL REQ.: MRR: 20303 TASK: 87-012.23

DESCRIPTION

TYPE: FLG SIZE (IN.): 3 PRESSURE: 150 HEAT TREATMENT: 3 CATEGORY: FF WH SCHEDULE: 40 ASME CLASS: GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: [N-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSJ P.O.1: 1/1 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0119 DATE 2: 06/30/87
VENDOR3: BECHTEL P.O.3: FWS58370 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

CMTR DATE: 06/30/87 HEAT NUMBER: C1 SPECIFICATION: SAL05
CAR: 0.280 MAN: 0.750 PHOS: 0.017 SUL: 0.027 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 77.071 YIELD: 45.336 ELONGATION: 23.0 REDUCTION: 49.0 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 1/1 EQUOTIP2: 1/1 EQUOTIP3: 1/1 EQUOTIP4: 1/1 EQUOTIP5: 1/1 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- 101 Automatically calculated by the Database. DO NOT ENTER.
- 102 FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SW5=Swage
- 103 ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 104 BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 16.02 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
MCR: None MRI: 84267 POC: 86-528 MR: MR:R MR:R: MR:R WITHDRAWAL REQ.: MR:R 20383 TASK: 07-012.23

DESCRIPTION
TYPE: FLG SITE (IN.): 3 PRESSURE: 250 HEAT TREATMENT: 3 CATEGORY: FF MN SCHEDULE: 40 ASME CLASS: GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT RECOVERY SYSTEM LOCATION: (M=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: CONSOLIDATED POWER P.O.2: D66-0119 DATE 2: 06/30/87
VENDOR3: BECHTEL P.O.3: FMS58370 DATE 3: 1/1 VENDOR4: 1/1 P.O.4: 1/1

MATERIAL CERTIFICATION
CMTR DATE: 06/30/87 HEAT NUMBER: COX SPECIFICATION: SAT#5
CAR: 0.280 MAN: 0.750 PHOS: 0.017 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 6.000 SIL: 0.220
TENSILE: 77.071 YIELD: 45.336 ELONGATION: 23.0 REDUCTION: 49.0 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 1/1 EQUOTIP2: 1/1 EQUOTIP3: 1/1 EQUOTIP4: 1/1 EQUOTIP5: 1/1 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 16.01 LAST UPDATED: 07/09/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION
MCR: MCR: M4267 PDC: 86-528 MR: MRR: 20383 TASK: 87-017.23
WITHDRAWAL REQ.: MRR: 20383

DESCRIPTION
TYPE: F16 SIZE (IN.): 3 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF WH SCHEDULE: 4# ASME CLASS: GRADE:
SYSTEM NO.: 1# SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: IM-WAREHOUSE, PLANT) 0: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: / / VENDOR2: CONSOLIDATED POWER P.O.2: 266-0119 DATE 2: 06/30/87
VENDOR3: BECA TEL P.O.3: FM50370 DATE 3: / / VENDOR4: DATE 4: / /

MATERIAL CERTIFICATION
CSTR DATE: 06/30/87 HEAT NUMBER: CDX SPECIFICATION: SA105
CAR: 0.20# MAN: 0.75# PHOS: 0.017 SUL: 0.027 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.270
TENSILE: 77.071 YIELD: 45.336 ELONGATION: 23.0 REDUCTION: 49.0 HARDNESS:

EQUTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) F16=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SMG=Swage
- 3) ANN=Annealed, N0M=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WH=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 16.84 LAST UPDATED: 07/08/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

MCR: NONE MRI: M4267 PDC: 86-528 MR: MRI: MRR: 2039J WITHDRAWAL REQ.: / / TASK: 87-012.23

DESCRIPTION

TYPE: FLG SIZE(IN.): 3 PRESSURE: 150 HEAT TREATMENT: / / CATEGORY: FF MH SCHEDULE: 40 ASME CLASS: GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: [W=WAREHOUSE, P=PLANT] 0: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: / / VENDOR2: CONSOLIDATED POWER P.O.2: 066-0119 DATE 2: 06/30/87
VENDOR3: BECCTEL P.O.3: FMS58370 VENDOR4: / / P.O.4: / / DATE 4: / /

MATERIAL CERTIFICATION

CONTR DATE: 06/30/87 HEAT NUMBER: COX SPECIFICATION: SAT05
CAR: 0.280 MAN: 0.750 PHS: 0.017 SUL: 0.077 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 77.071 YIELD: 5.336 ELONGATION: 23.0 REDUCTION: 49.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DAVE COMPLETED: / / EQUOTIP1: / / EQUOTIP2: / / EQUOTIP3: / / EQUOTIP4: / / EQUOTIP AVERAGE: / /
HARDNESS: / / TENSILE: / /

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: / / YIELD: / / ELONGATION: / / REDUCTION: / / HARDNESS: / / EQUOTIP AVG.: / /

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FT=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 16.05 LAST UPDATED: 07/09/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

NCR: NONE MRI: 04267 POC: 06-528 MR: MRIR: WITHDRAWAL RED.: MNR: 20303 TASK: 87-012.23

DESCRIPTION

TYPE: FLG SIZE (IN.): 3 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF MH SCHEDULE: 40 ASME CLASS: GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: / / VENDOR2: CONSOLIDATED POWER P.O. 2: 066-0119 DATE 2: 06/30/87
VENDOR3: BECCTEL P.O. 3: FM558370 VENDOR4: P.O. 4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 06/30/87 HEAT NUMBER: COX SPECIFICATION: SAT05
CAR: 0.200 MAN: 0.750 PHOS: 0.017 SUL: 0.027 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220
TENSILE: 77.071 YIELD: 45.336 ELONGATION: 23.0 REDUCTION: 49.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- *1* Automatically calculated by the Database. DO NOT ENTER.
- *2* FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- *3* ANN=Annealed, NORM=Normalized, OBT=Quench & Temper, TEM=Tempering
- *4* BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, PF=Raised Face, RJ=Ring Joint, 50=Clip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 16.06 LAST UPDATED: 07/08/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

MCR: NONE MRI: M4267 POC: 86-528 MR: MRIR: WITHDRAWAL REQ.: MRR: 2038J TASK: 87-012.23

DESCRIPTION

TYPE: FLG SIZE: 3 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF WH SCHEDULE: 40 ASME CLASS: GRADE: SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: CONSOLIDATED POWER P.O.2: 066-0119 DATE 2: 06/30/87 VENDOR3: BEATEL P.O.3: FMS58370 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

QTR DATE: 06/30/87 HEAT NUMBER: COX SPECIFICATION: SA105 CAR: 0.780 MAN: 0.017 SUL: 0.027 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.220 TENSILE: 77,071 YIELD: 45,336 ELONGATION: 23.0 REDUCTION: 49.0 HARDNESS:

EDUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EDUOTIP1: EDUOTIP2: EDUOTIP3: EDUOTIP4: EDUOTIP5: EDUOTIP AVERAGE: HARDNESS: TENSILE: EDUOTIP AVG.:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EDUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WH=Welding Neck

ATTACHMENT 1

MRC BULLETIN 86-85 DATABASE RECORD

COMPONENT NUMBER: 17.01 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 88-053 MRI: 04571 POC: 86-528 MR: MRR: 22251 WITHDRAWAL REQ.: TASK: 87-012.23

DESCRIPTION

TYPE: FL6 SIZE: 2 PRESSURE: 300 HEAT TREATMENT: AF BL CATEGORY: AF BL SCHEDULE: ASME CLASS: 2 GRADE: SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: M (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: 1/1 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0184 DATE 2: 08/11/87 VENDOR3: BECHTEL P.O.3: 08570310 DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

HEAT NUMBER: 6X11375 SPECIFICATION: SA195 CAR: 0.280 MAR: 0.910 SUL: 0.020 NIC: 0.030 CHR: 0.140 MOL: 0.020 SIL: 0.190 TENSILE: 80,600 YIELD: 51,000 ELONGATION: 12.0 REDUCTION: 61.0 HARDNESS: 171

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE: HARDNESS: TENSILE: EQUOTIP AVG.:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1 YIELD: 4 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: CAR: 0.000 MAR: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL6=Flange, EL6=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, OQT=Quench & Temper, TEN=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC SULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 17.02 LAST C/P-CATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
MCR: NONE MRI: M4571 PDC: 85-528 MR: MR1R MITHORAMAL REQ.: MR: 22251 TASK: 87-012.23

DESCRIPTION
TYPE: LG SIZE(IN.): 4 PRESSURE: 300 HEAT TREATMENT: AF BL SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: [M=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI DATE 1: 1/1 VENDOR2: CONSOLIDATED FOWER P.O.2: 066-0184 DATE 2: 08/11/87
VENDOR3: BECA TEL DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION
CONTR DATE: 06/11/87 HEAT NUMBER: 6X11375 SPECIFICATION: SAT#5
CAR: 0.280 MAN: 0.210 PHOS: 0.012 SUL: 0.020 NIC: 0.010 CHR: 0.140 MOL: 0.020 SIL: 0.190
TENSILE: 80.000 YIELD: 51.000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 171

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

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COMPONENT NUMBER: 17.03 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE^{***}: 07/31/88

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DOCUMENTATION

NCR: 88-053 MRI: M4571 PDC: 86-528 MR: MRIR: WITHDRAWAL REQ.: MRR: 22751 TASK: 87-012.2j

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DESCRIPTION

TYPE^{**}: CAP SIZE(IN.): 4 PRESSURE: HEAT TREATMENT^{***}: CATEGORY^{***}: 8W SCHEDULE: 4# ASME CLASS: 2 GRADE:
SYSTEM NO.: 1# SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: # (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

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CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: CONSOLIDATED POWER P.O.2: D66-0184 DATE 2: 08/11/87
VENDOR3: BECHTEL P.O.3: FMS70310 DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

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MATERIAL CERTIFICATION

CMTR DATE: 08/11/87 HEAT NUMBER: 6X11375 SPECIFICATION: SA105
CAR: 0.20# MAN: 0.91# PHOS: 0.012 SUL: 0.02# NIC: 0.03# CHR: 0.14# MOL: 0.02# SIL: 0.19#
TENSILE: 80,600 YIELD: 51,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 171

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EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: #

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LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: # YIELD: # ELONGATION: 0.0 REDUCTION: HARDNESS: # EQUOTIP AVG.:

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REMARKS

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^{**} Automatically calculated by the Database. DO NOT ENTER.

^{**} FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

^{**} ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

^{**} BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 17.04 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-053 MRI: 04571 PDC: 06-528 MS: MBIR WITHDRAWAL REC.: MBIR MRR: 22251 TASK: 87-012.23

DESCRIPTION
TYPE: CAP SIZE (IN.): 4 PRESSURE: HEAT TREATMENT CATEGORY: SM SCHEDULE: 4B ASME CLASS: 2 GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: M (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0184 DATE 2: 08/11/87
VENDOR3: BECCTEL P.O.3: EM870310 DATE 3: 1/1 VENDOR4: 1/1 P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
CTR DATE: 08/11/87 HEAT NUMBER: 6X11375 SPECIFICATION: SAL05
CAR: 0.280 MAN: 0.910 PHOS: 0.012 SUL: 0.030 NIC: 0.030 CHR: 0.140 MOL: 0.020 SIL: 0.190
TENSILE: 80.000 YIELD: 51.000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 171

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 1/1 EQUOTIP2: 1/1 EQUOTIP3: 1/1 EQUOTIP4: 1/1 EQUOTIP5: 1/1 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- (*) Automatically calculated by the Database. DU NOT ENTER.
- (*) FL=Flange, EL=Elbow, Tee, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- (*) ANN=Annealed, NQW=Normalized, SKT=Quench & Temper, TEM=Tempering
- (*) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 17.05 LAST UPDATED: 07/08/89 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
NCR: NONE MRI: 04571 PDC: 06-528 MR: WRIR WITHDRAWAL REQ.: WRIR MRR: 22251 TASK: 87-012.23

DESCRIPTION
TYPE: CAP SIZE(IN.): 4 PRESSURE: HEAT TREATMENT CATEGORY: BW SCHEDULE: 4# ASME CLASS: 2 GRADE:
SYSTEM NO.: 1# SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: [M=WAREHOUSE, P=PLANT] G: Y (Y/N) .ETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0184 DATE 2: 08/11/87
VENDOR3: BECCTEL P.O.3: 0570310 DATE 3: 1/1 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
MTR DATE: 08/11/87 HEAT NUMBER: 6X11375 SPECIFICATION: SAT05
CAR: 0.200 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.030 CHR: 0.140 MOL: 0.020 SIL: 0.190
TENSILE: 00.000 YIELD: 51.000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 171

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- * Automatically calculated by the Database. DO NOT ENTER.
- * FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWG=Swage
- * ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- * BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RE=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 18.01 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-053 MRI: 04538 PDC: 86-528 MR: 06-528 MRIR: 2116J WITHDRAWAL REQ.: 06-528 TASK: 87-012.23

DESCRIPTION
TYPE: FLG SIZE (IN.): 4 PRESSURE: 300 HEAT TREATMENT: AF W SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: M (W-WAREHOUSE, P-PLANT) Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0140 DATE 2: 07/14/87
VENDOR3: BECHTEL P.O.3: FMS63200 DATE 3: 1/1 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
MTR DATE: 07/14/87 HEAT NUMBER: 810 SPECIFICATION: SAMS
CAR: 0.750 WAG: 0.800 PHOS: 0.007 SUL: 0.020 NIC: 0.030 CHR: 0.100 MOL: 0.000 SIL: 0.200
TENSILE: 72,847 YIELD: 43,361 ELONGATION: 34.0 REDUCTION: 60.0 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 1/1 EQUOTIP2: 1/1 EQUOTIP3: 1/1 EQUOTIP4: 1/1 EQUOTIP5: 1/1 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 WAG: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 18.2 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 88-053 MRI: 04538 POC: 86-523 MR: MRIR: WITHDRAWAL RED.: MRR: 21161 TASK: 87-012.23

DESCRIPTION

TYPE: FLG SIZE (IN.): 4 PRESSURE: 300 HEAT TREATMENT: CATEGORY: AF MH SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 18 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: M [M-WAREHO.] P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: / / VENDOR2: CONSOLIDATED POWER P.O.2: 066-0140 DATE 2: 07/14/87
VENDOR3: BECNTEL P.O.3: FWS63200 DATE 3: / / VENDOR4: P.O.4: / / DATE 4: / /

MATERIAL CERTIFICATION

HEAT NUMBER: BLN SPECIFICATION: SA105
DATE: 07/14/87
CAR: 0.250 MAN: 0.864 PHOS: 0.007 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 72.847 YIELD: 43.301 ELONGATION: 34.0 REDUCTION: 60.0 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- (*) ANN-Annealed, MWN-Normalized, QT-Quench & Temper, TEM-Tempering
- (*) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, MN-Welding Neck

ATTACHMENT I
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 18.01 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-023 MNI: 04538 POC: 86-528 MR: MRIR WITHDRAWAL REQ.: MRG: 21161 TASK: 07-012.23

DESCRIPTION
TYPE: FLG SITE (IN.): 4 PRESSURE: 300 HEAT TREATMENT: AF MN SCHEDULE: ASME CLASS: 2 GRADE: AF MN
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: M (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: CONSOLIDATED POWER P.O.2: 6-0140 DATE 2: 07/14/87
VENDOR3: BECHTEL P.O.3: FMS63200 DATE 3: 1/1 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
CMR DATE: 07/14/87 HEAT NUMBER: 8LN SPECIFICATION: SAM8
CAR: 0.2% MN: 0.800 PHOS: 0.007 SUL: 0.020 NIC: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 72,847 YIELD: 43,301 ELONGATION: 34.0 REDUCTION: 60.0 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) RL=Stead, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 18.04 LAST UPDATED: 07/08/89 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
NCR: ADNE MR1: M4538 POC: 86-528 MR: MR19 WITHDRAWAL RED.: MRR: 21161 TASK: 07-012.23

DESCRIPTION
TYPE: FLG SIZE (IN.): 4 PRESSURE: 300 HEAT TREATMENT: RF MN CATEGORY: ASME CLASS: 2 GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT RECOVERY SYSTEM LOCATION: (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: CONSOLIDATED POWER P.O.2: 066-0140 DATE 2: 07/14/87
VENDOR3: BECKTEL P.O.3: FMS63200 DATE 3: 1/1 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
MTR DATE: 07/14/87 HEAT NUMBER: BLM SPECIFICATION: S.A105
CAR: 0.250 WAK: 0.000 PHOS: 0.000 SUL: 0.020 NIC: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.200
TENSILE: 72.847 YIELD: 43.301 ELONGATION: 14.0 REDUCTION: 60.0 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 1/1 EQUOTIP2: 1/1 EQUOTIP3: 1/1 EQUOTIP4: 1/1 EQUOTIP5: 1/1 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 WAK: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS
** Automatically calculated by the Database. DO NOT ENTER.
2 FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMC=Swage
3 ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
4 BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 17-01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 36-DAY ACTION DATE: 1/1

DOCUMENTATION
MCR: NONE MBI: POC: 83-19 MR: MRIR: WITHDRAWAL REQ.: MMR: TASK:

DESCRIPTION
TYPE: 1/6 SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: CATEGORY: RF #N SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: WJM P.O.1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-70-5 DATE 2: 04/28/78
VENDOR3: P.O.3: 1/1 VENDOR4: P.O.4: 1/1

MATERIAL CERTIFICATION
CMR DATE: 04/28/78 HEAT NUMBER: M771116 SPECIFICATION: SA105
CAR: 0.240 MANG: 0.009 PHOS: 0.009 SUL: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 78.100 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MANG: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS
1) Automatically calculated by the Database. DO NOT ENTER.
2) FL6=Flange, FL9=Elbow, TEE, C, C/C=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SW6=Swage
3) ANK=Annealed, WRM=Normalized, DAT=Quench & Temper, TEM=Tempering
4) RL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 19.02 LAST UPDATED: 07/08/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION
MCR: ASME M01: PDC: 03-19 MG: MRR: WITHDRAWAL REQ.: MRR: TASK:

DESCRIPTION
TYPE: FLG SIZE (IN.): 1# PRESSURE: 3## HEAT TREATMENT: #
SYSTEM NO.: 5# SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM CATEGORY: #F #N SCHEDULE: ASME CLASS: GRADE:
ACCESSIBLE: [Y/N] DRAWING NUMBER: LOCATION: [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]

CHAIN OF PURCHASE
VENDOR1: #2# P.O.1: / / VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-0-00-70-5 DATE 2: 04/28/78
VENDOR3: P.O.3: / / VENDOR4: P.O.4: / /

MATERIAL CERTIFICATION
MTR DATE: 04/28/78 HEAT NUMBER: W77116 SPECIFICATION: SA105
CAR: 0.24# MAN: 0.00# PHOS: 0.00# SUL: 0.03# CHR: 0.00# MOL: 0.00# SIL: 0.24#
TENSILE: 78.10# YIELD: 59.12# ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.00# MAN: 0.00# PHOS: 0.00# SUL: 0.00# NIC: 0.00# CHR: 0.00# MOL: 0.00# SIL: 0.00#
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL5-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLS-Plug, RED-Reducer, SW6-Swage
- 3) ANN-Annealed, NORM-Normalized, Q&T-Quench & Temper, TEM-Tempering
- 4) S-Blind, SW-Butt Weld, FF-Flat Face, L3-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 17-01 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
NCR: None MS1: POC: 83-19 MS: MRIR: WITHDRAWAL MED.: MGR: TASK:

DESCRIPTION
TYPE: FLG SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: AS CATEGORY: RF SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: [#-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: MGM P.O.1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-88-78-5 DATE 2: 04/28/78
VENDOR3: 1/1 P.O.3: 1/1 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
CMR DATE: 04/28/78 HEAT NUMBER: M771116 SPECIFICATION: SAINS
CAR: 0.240 MARK: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 78,100 YIELD: 50,120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAP: 0.000 MARK: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS
1 Automatically calculated by the Database. DO NOT ENTER.
2 FLS-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
3 ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
4 BL-Blind, BS-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 19.04 LAST UPDATED: 07/08/83 DATE IDENTIFIED: / / 30-DAY ACTION DATE^(*): / /

DOCUMENTATION

NCR: NONE MRI: PDC: 03-19 MR: MRIR: WITHDRAWAL REQ.: MRP: TASK:

DESCRIPTION

TYPE⁽²⁾: FLG SIZE(IN.): 10 PRESSURE: 300 HEAT TREATMENT⁽³⁾: CATEGORY⁽⁴⁾: RF WN SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: [W=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: WJM P.O.1: DATE 1: / / VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78
VENDOR3: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 04/28/78 HEAT NUMBER: 0771116 SPECIFICATION: S4105
CAR: 0.240 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 78.100 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: #

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: # YIELD: # ELONGATION: #.# REDUCTION: HARDNESS: # EQUOTIP AVG.:

REMARKS

^(*) Automatically calculated by the Database. DO NOT ENTER.

⁽²⁾ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

⁽³⁾ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

⁽⁴⁾ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
 WRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 19-05 LAST UPDATED: 07/08/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

NCR: #006 MRI: PDC: 83-19 MR: MRIR: WITHDRAWAL REQ.: MGR: TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: CATEGORY: AF WH SCHEDULE: ASME CLASS: GRADE:
 SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: [W-WAREHOUSE, P-PLANT] Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: #20 P.O.1: DATE 1: / / VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-70-5 DATE 2: 04/28/78
 VENDOR3: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 04/28/78 HEAT NUMBER: #77116 SPECIFICATION: SA105
 CAR: #240 MAN: #000 PHOS: #000 SUL: #000 NIC: #030 CHR: #000 MOL: #000 SIL: #240
 TENSILE: 78,000 YIELD: 50,120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
 CAR: #000 MAN: #000 PHOS: #000 SUL: #000 NIC: #000 CHR: #000 MOL: #000 SIL: #000
 TENSILE: # YIELD: # ELONGATION: # REDUCTION: # HARDNESS: # EQUOTIP AVG.:

REMARKS

- *1* Automatically calculated by the Database. DO NOT ENTER.
- *2* FLG=Flange, ELB=Elbow, TEE, CAP, CPC=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWB=Swage
- *3* ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- *4* BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 19.06 LAST UPDATED: 07/03/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCP: NONE MGI: PDC: RJ-19 MR: MRR: WITHDRAWAL REQ.: TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: AF W/ SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) 0: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: #28 P.O.1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78
VENDOR3: P.O.3: 1/1 VENDOR4: P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

DATE: 04/28/78 HEAT NUMBER: 0771116 SPECIFICATION: SAIMS
CAR: 0.200 MARK: 0.800 PHOS: 0.000 SUL: 0.000 NIC: 2.030 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 78.100 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MARK: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

- *** Automatically calculated by the Database. DO NOT ENTER.
- ** FLG=Flange, ELB=Elbow, TEE, COP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- ** ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- ** BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, R=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 19.07 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
NCR: NONE MRS1: POC: 83-19 MR: MRR: WITHDRAWAL REQ.: MRR: TASK:

DESCRIPTION
TYPE: FLG SIZE (IN.): 10 PRESSURE: 360 HEAT TREATMENT: CATEGORY: RF SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: NJM P.O.1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78
VENDOR3: P.O.3: 1/1 VENDOR4: P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
QTR DATE: 04/28/78 HEAT NUMBER: R771116 SPECIFICATION: S4185
CAR: 0.240 WAK: 0.000 PHOS: 0.009 SUL: 0.009 N.C: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 78.100 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.3 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 WAK: 0.000 PHOS: 0.000 SUL: 0.000 N.C: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVE.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SW6=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) RL=Blind, RW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
 NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 17.09 LAST UPDATED: 07/06/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
 MCR: None MGI: POC: 8J-19 MR: MRIR: WITHDRAWAL REQ.: MRR: TASK:

DESCRIPTION
 TYPE: FLG SIZE (IN.): 10 PRESSURE: 1000 HEAT TREATMENT: ASME CLASS: SCHEDULE: ASME CLASS: GRADE:
 SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
 ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
 VENDOR1: Q/M P.O.1: 1/1 VENDOR2: PULLMAN FWP. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78
 VENDOR3: Q/M P.O.3: 1/1 VENDOR4: Q/M P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
 CONTR DATE: 04/28/78 HEAT NUMBER: 8771116 SPECIFICATION: S.A.105
 CAR: 0.240 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
 TENSILE: 78.100 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING
 START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: Q EQUOTIP2: Q EQUOTIP3: Q EQUOTIP4: Q EQUOTIP5: Q EQUOTIP AVERAGE:
 HARDNESS: Q TENSILE: Q

LAB TESTING
 DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: Q YIELD: Q ELONGATION: 0.0 REDUCTION: Q HARDNESS: Q EQUOTIP AVG.: Q

REMARKS
 * Automatically calculated by the Database. DO NOT ENTER.
 * FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SW6-Swage
 * ANN-Annealed, NORM-Normalized, GSI-Guench & Temper, TEM-Tempering
 * BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, MW-Welding Neck

ATTACHMENT 1

MGC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 19.03 LAST UPDATED: 07/08/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

MGR: NAME MRL: POC: 03-19 PR: MTR: MRR: MITHRAVAL REG.: MRR: TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 16 PRESSURE: 300 HEAT TREATMENT: CATEGORY: AF MW SCHEDULE: ASME CLASS: GRADE: SYSTEM NO.: 54 SYSTEM DESCRIPTION: CONTAINERS AT A30 REACTOR SYSTEM LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: R2M P.O.1: / / VENDOR2: PULLMAN PAR. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78 VENDOR3: P.O.3: / / VENDOR4: P.O.4: / / DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: 04/28/78 HEAT NUMBER: 0771116 SPECIFICATION: SA105 CAR: 0.240 MAN: 0.000 PHOS: 0.009 SUL: 0.009 CBR: 0.000 MOL: 0.000 SIL: 0.240 TENSILE: 79.100 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE: HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CBR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 17.1# LAST UPDATED: 07/09/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCR: NONE MGI: 83-19 PDC: 83-19 MRIR: MRIR WITHDRAWAL REQ.: MRR TASK: MRR

DESCRIPTION

TYPE: FLG SIZE (IN.): 1# PRESSURE: 3# HEAT TREATMENT: AF MN SCHEDULE: AF MN ASME CLASS: GRADE:
SYSTEM NO.: 5# SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: N/A P.O.1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-70-5 DATE 2: 04/28/78
VENDOR3: 1/1 P.O.3: 1/1 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

QIR DATE: 04/28/78 HEAT NUMBER: 8771116 SPECIFICATION: SAMS
CAR: 0.2# MAN: 0.0# PHOS: 0.0# SUL: 0.0# NIC: 0.0# CHR: 0.0# MOL: 0.0# SIL: 0.2#
TENSILE: 79.1# YIELD: 50.1# ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.0# MAN: 0.0# PHOS: 0.0# SUL: 0.0# NIC: 0.0# CHR: 0.0# MOL: 0.0# SIL: 0.0#
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, GQT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, 50=Slip On, SW=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1

NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 19.11 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

NCR: NONE MRI: 03-19 MR: MR1R MRR: WITHDRAWAL REQ. TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 1.0 PRESSURE: 300 HEAT TREATMENT: CATEGORY: RF-WH SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: NJM P.O.1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/79
VENDOR3: P.O.3: 1/1 VENDOR4: P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

DATA DATE: 04/28/79 HEAT NUMBER: 0771116 SPECIFICATION: SAT05
CAR: 0.240 MAN: 0.000 PHOS: 0.000 SUL: 0.010 CARB: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 78,100 YIELD: 50,120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 CARB: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGAT: 200 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG-Flange, ELB-Elbow, TEE, CAP, CFL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SW6-Swage
- 3) ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- 4) BL-Blind, BR-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WH-Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 19.12 LAST UPDATED: 07/28/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

MCR: NONE MRI: PCC: 03-19 MR: MRR: WITHDRAWAL REQ.: MRR: TASK:

DESCRIPTION

TYPE: F16 SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: CATEGORY: RF MH SCHEDULE: ASME CLASS: GRADE: SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N] ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: WJH P.O.1: / / VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78 VENDOR3: / / P.O.3: / / VENDOR4: / / DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: 04/28/78 HEAT NUMBER: 8771116 SPECIFICATION: SA105 CAR: 0.240 MAN: 0.800 P-05: 0.000 SUL: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.249 TENSILE: 78.100 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE: HARDNESS: TENSILE: EQUOTIP AVERAGE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAN: 0.100 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVE: 0

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) F16-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Exp. der, PL6-Plug, RED-Reducer, SW6-Swage
- (3) ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- (4) BL-Blind, BW-Butt Weld, FF-Flat Face, L3-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
 NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 19.13 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
 NCR: None POC: 03-19 MR: WRIP MRB: WITHDRAWAL REQ. TASK:

DESCRIPTION
 TYPE: FLG SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: CATEGORY: RF MW SCHEDULE: ASME CLASS: GRADE:
 SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
 VENDOR1: 03M P.O.1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78
 VENDOR3: P.O.3: 1/1 VENDOR4: P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
 CNTR DATE: 04/28/78 HEAT NUMBER: 0771116 SPECIFICATION: SAMS
 CAR: 0.240 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.240
 TENSILE: 78.100 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING
 START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE:

LAB TESTING
 DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- ** Automatically calculated by the Database. DO NOT ENTER.
- ** FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMS=Swage
- ** ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- ** BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MW=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 19.14 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION RATE: 1/1

DOCUMENTATION

MCR: NONE MGI: PDC: 83-19 MG: MGR: WITHDRAWAL RED.: MRR: TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 1.0 PRESSURE: 300 HEAT TREATMENT: CATEGORY: RF MN SCHEDULE: ASME CLASS: GRADE:
 SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: AJA P.O.1: DATE 1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78
 VENDOR3: P.O.3: DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 04/28/78 HEAT NUMBER: 0771116 SPECIFICATION: SAIN
 CAR: 0.240 MAR: 0.000 PHOS: 0.009 SUL: 0.009 NIC: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.240
 TENSILE: 78.100 YIELD: 50.120 ELONGATION: 79.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAR: 0.000 P.S: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: YIELD: ELONGATION: 0.0 REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Seage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) RL=Blind, RW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WW=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 19.15 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
MCR: NDME MRI: 03-19 MRC: 03-19 MRIR: 03-19 MPR: 03-19 WITHDRAWAL REQ.: 1/1 TASK: 03-19

DESCRIPTION
TYPE: FLG SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: RF SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: [W-WAREHOUSE, P-PLANT] Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: WJM P.O.1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-88-78-5 DATE 2: 04/28/78
VENDOR3: 1/1 P.O.3: 1/1 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
CTR DATE: 04/28/78 HEAT NUMBER: W771116 SPECIFICATION: SAJMS
CAR: 0.240 MAN: 0.000 PHOS: 0.000 SUL: 0.030 NIT: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 78,100 YIELD: 50,120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 1/1 EQUOTIP2: 1/1 EQUOTIP3: 1/1 EQUOTIP4: 1/1 EQUOTIP5: 1/1 EQUOTIP AVERAGE: 1/1
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SW6-Swage
- 3) ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- 4) RL-Blind, RM-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, WW-Welding Neck

ATTACHMENT 1
 NPC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 12.16 LAST UPDATED: 07/06/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCR: NONE MRI: PDC: 03-12 MR: WRIR: WITHDRAWAL REC.: MRR: TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 1.0 PRESSURE: 3.00 HEAT TREATMENT: CATEGORY: RT 4H SCHEDULE: ASME CLASS: GRADE: SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: MJM P.O.1: DATE 1: 1/1 VENDOR2: PULLMAN PHOS. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78 VENDOR3: P.O.3: DATE 3: 1/1 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

DATE: 04/28/78 HEAT NUMBER: 0771116 SPECIFICATION: SA106 CAR: 0.240 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.240 TENSILE: 78,100 YIELD: 58,120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE: HARDNESS: TENSILE: EQUTIP AVG.:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QNT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RJ=Raised Face, SO=Slip On, SW=Socket Weld, TH=Threaded, WH=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 12-17 LAST UPDATED: 07/08/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

NCR: NONE MRI: PDC: 83-19 MR: MRIR: MPR: WITHDRAWAL REQ.: TASK:

DESCRIPTION

TYPE: F/G SIZE (IN.): 1.0 PRESSURE: 300 HEAT TREATMENT: CATEGORY: RF MH SCHEDULE: ASME CLASS: GRADE:
 SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
 ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: MJM P.O.1: / / VENDOR2: PULLMAN FWP, PRODUCTS P.O.2: 17-07-00-7P-5 DATE 2: 04/28/78
 VENDOR3: P.O.3: / / VENDOR4: P.O.4: / / DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: 04/28/78 HEAT NUMBER: 0771116 SPECIFICATION: SA105
 CAR: 0.240 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.030 CHR: 0.000 MOL: 0.000 SIL: 0.240
 TENSILE: 70,100 YIELD: 50,120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: YIELD: ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MRC BULLETIN 86-85 DATABASE RECORD

COMPONENT NUMBER: 17.18 LAST UPDATED: 07/08/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

NCR: NONE MRI: PDC: 03-19 MR: MRR: WITHDRAWAL REQ.: MRR: TASK:

DESCRIPTION

TYPE: FLG SIZE (IN.): 16 PRESSURE: 300 HEAT TREATMENT: CATEGORY: AF MH SCHEDULE: ASME CLASS: GRADE: SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (N=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: #12 VENDOR2: PULLMAN PWP. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78 VENDOR3: DATE 1: / / DATE 3: / / DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 04/28/78 HEAT NUMBER: 8771116 SPECIFICATION: SA105 CAP: 0.240 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.030 CHR: 0.000 MOL: 0.000 S.L: 0.240 TENSILE: 78.000 YIELD: 50.120 ELONGATION: 27.4 REDUCTION: 57.8 HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE: HARDNESS: TENSILE: EQUOTIP AVG.:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 11) Automatically calculated by the Database. DO NOT ENTER.
- 12) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 13) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 14) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, 50=Slip on, SM=Socket Weld, TN=Threaded, WN=Welding Neck

ATTACHMENT 1
 WRC RUL-EI 'N 88-85 DATABASE RECORD

COMPONENT NUMBER: 15.19 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
 NCR: None MRI: 03-19 MR: None MR19: None MR18: None MR17: None MR16: None MR15: None MR14: None MR13: None MR12: None MR11: None MR10: None MR9: None MR8: None MR7: None MR6: None MR5: None MR4: None MR3: None MR2: None MR1: None WITHDRAWAL REQ.: None TASK: None

DESCRIPTION
 TYPE: FLG SIZE (IN.): 10 PRESSURE: 3000 HEAT TREATMENT: None CATEGORY: RF WR SCHEDULE: ASME CLASS: GRADE: None
 SYSTEM NO.: 20 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: (Y/N) DRAWING NUMBER: None

CHAIN OF PURCHASE
 VENDOR1: WJM P.O. 1: 1/1 VENDOR2: PULLMAN PRD. PRODUCTS P.O. 2: 17-07-00-78-5 DATE 2: 04/29/78
 VENDOR3: None P.O. 3: 1/1 VENDOR4: None P.O. 4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
 CNTR DATE: 04/28/78 HEAT NUMBER: 0771116 SPECIFICATION: SAMS
 CAR: 0.240 MAN: 0.000 PHOS: 0.009 SUL: 0.030 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
 TENSILE: 78.150 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS: None

EQUTIP TESTING
 START DATE: 1/1 DATE COMPLETE: 1/1 EQUTIP1: None EQUTIP2: None EQUTIP3: None EQUTIP4: None EQUTIP5: None EQUTIP AVERAGE: None
 HARDNESS: None TENSILE: None

LAB TESTING
 DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0 HARDNESS: 0 EQUTIP AVG.: None

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELP=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 19.20 LAST UPDATED: 07/08/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCR: NONE MRI: 83-19 MRR: 83-19 MR: 83-19 MWR: 83-19 WITHDRAWAL REQ.: 83-19 TASK: 83-19

DESCRIPTION

TYPE: FLG SIZE (IN.): 10 PRESSURE: 300 HEAT TREATMENT: AS CATEGORY: RF MM SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 50 SYSTEM DESCRIPTION: CONTAINMENT AND REACTOR SYSTEM LOCATION: [M=WAREHOUSE, P=PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: RJM P.O.1: 1/1 VENDOR2: PULLMAN PWR. PRODUCTS P.O.2: 17-07-00-78-5 DATE 2: 04/28/78
VENDOR3: 1/1 P.O.3: 1/1 VENDOR4: 1/1 P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

QWTP DATE: 04/28/78 HEAT NUMBER: 0771116 SPECIFICATION: S4105
CAR: 0.240 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.240
TENSILE: 70.100 YIELD: 50.120 ELONGATION: 29.4 REDUCTION: 57.8 HARDNESS:

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: 0 EQUTIP2: 0 EQUTIP3: 0 EQUTIP4: 0 EQUTIP5: 0 EQUTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=butt Weld, FF=Flat Face, LJ=Lapped Joint, HF=Beveled Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 20-01 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
MCR: 88-023 MBI: M4035 PDC: 86-52C MR: MR18: WITHDRAWAL REQ.: MR: 20993 TASK: 87-012.24

DESCRIPTION
TYPE: FL6 SIZE (IN.): 1 PRESSURE: 150 HEAT TREATMENT: AS CATEGORY: RF SM SCHEDULE: 80 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (0-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: [Y/N]
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: 1/1 DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: FW56830 P.O.4: 1/1 DATE 4: 1/1
DATE 1: 1/1 VENDOR4: 1/1

MATERIAL CERTIFICATION
CMR DATE: 1/1 HEAT NUMBER: CE5 SPECIFICATION: S410S
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL6=Flange, EL6=Elbow, TEE, CAR, CPL=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, RM=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 20-02 LAST UPDATED: 07/12/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-053 MR1: 00035 FOC: 86-52C MR: 00000 MRIR: 00000 WITHDRAWAL REQ.: 00000 MRR: 20993 TASK: 87-012.24

DESCRIPTION
TYPE: FLG SIZE (IN.): 1 PRESSURE: 120 HEAT TREATMENT: 000 CATEGORY: RF 5M SCHEDULE: 80 ASME CLASS: 000 GRADE: 000
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: W-WAREHOUSE, P-PLANT B: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 00000

CHAIN OF PURCHASE
VENDOR1: PJ1 P.O.1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: 1/1
VENDOR3: BECHTEL P.O.3: FMS28830 DATE 3: 07/17/87 VENDOR4: 00000 P.O.4: 1/1

MATERIAL CERTIFICATION
CMR DATE: 1/1 HEAT NUMBER: 000 SPECIFICATION: SAT05
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 00000 EQUOTIP2: 00000 EQUOTIP3: 00000 EQUOTIP4: 00000 EQUOTIP5: 00000 EQUOTIP AVERAGE: 00000
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 00000

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FL6-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SMG-Swage
- (3) ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- (4) SL-Slip On, BW-Butt Weld, FF-Flat face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 20-03 LAST UPDATED: 08/01/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 88-05J MRI: 04935 PDC: 06-52C MR: MWR: WITHDRAWAL REQ.: MWR: 20993 TASK: 07-017,24

DESCRIPTION

TYPE: FLG SIZE (IN.): 1 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF SM SCHEDULE: 00 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: W (W-WAREHOUSE, P-PLANT) B: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSJ P.O.1: DATE 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: FW558870 DATE 3: 07/17/87 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 1/1 HEAT NUMBER: AKY-04 SPECIFICATION: SAL105
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EDUOTIP TESTING

START DATE: 07/28/88 DATE COMPLETED: 07/28/88 EDUOTIP1: 418 EDUOTIP2: 516 EDUOTIP3: 417 EDUOTIP4: 419 EDUOTIP5: 420 EDUOTIP AVERAGE: 418
HARDNESS: 15J TENSILE: 74.000

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EDUOTIP AVG.:

REMARKS

1A0 INTERNAL TESTS, ONE ON RADIIUS, ONE ON FACE. RADIIUS RESULTS REPORTED ABOVE.
HARDNESS FOR FACE 142.

- 101 Automatically calculated by the Database. DO NOT ENTER.
- 102 FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- 103 ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering
- 104 BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, 50-Slip On, SW-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 20.04 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCR: NONE M01: 00035 PDC: 86-52C MR: MHR: WITHDRAWAL REQ.: MRR: 20993 TASK:

DESCRIPTION

TYPE: 1.6 SIZE (IN.): 1 PRESSURE: 150 HEAT TREATMENT: CATEGORY: AF SH SCHEDULE: 88 ASME CLASS: BRODE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: [M-WAREHOUSE, P-PLANT] Q: 1 [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

P.O. 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O. 2: 1/1
VENDOR1: PSJ DATE 1: 1/1 VENDOR3: DATE 3: 07/17/87 VENDOR4: P.O. 4: 1/1
VENDOR5: BECNTEL DATE 2: 07/17/87 VENDOR6: DATE 6: 1/1

MATERIAL CERTIFICATION

CMR DATE: 1/1 HEAT NUMBER: 000-04 SPECIFICATION: SA105
CAR: 0.000 NMC: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EDUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EDUOTIP1: EDUOTIP2: EDUOTIP3: EDUOTIP4: EDUOTIP5: EDUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 NMC: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EDUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SMS-Swage
- 3) ANW-Annealed, NWSM-Normalized, QET-Quench & Temper, TEM-Tempering
- 4) BL-Blind, BR-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, NI-Ni-Inlaid Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 20.05 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCP: NONE MRI: 80035 POC: 86-52C MR: MR10: WITHDRAWAL REQ.: MRH: 2099J TASK: 07-012,24

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: RF SH SCHEDULE: 80 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: RD SYSTEM ASSIGNED LOCATION: (W-WAREHOUSE, P-PLANT) D: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: DATE 2: 1/1
VENDOR3: BECKTEL P.O.3: F8558030 P.O.4: DATE 3: 07/17/87 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

DATE: 1/1 HEAT NUMBER: C7Y SPECIFICATION: SAIMS
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NTC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NTC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPT=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) RL=Blind, SW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
MPC BULLETIN 88-WS DATABASE RECORD

COMPONENT NUMBER: 20-06 LAST UPDATED: 07/17/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
MCR: NONE M01: M0035 PDC: 86-52C M0: MRIR: WITHDRAWAL REQ.: MR: 20993 TASK: 87-012.14

DESCRIPTION
TYPE: FLB SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: AS CATEGORY: RT SM SCHEDULE: 00 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: IN-WAREHOUSE, P-PLANT D: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: 1/1 DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: FMS58070 VENDOR4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
MTR DATE: 1/1 HEAT NUMBER: CFY SPECIFICATION: SAINS
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS
1. Automatically calculated by the Database. DO NOT ENTER.
2. FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLE=Plug, RED=Reducer, SAG=Seage
3. ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
4. BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WW=Welding Neck

ATTACHMENT 1
 WRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 20-07 LAST UPDATED: 07/15/89 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
 MCR: #001 MRI: #4035 PDC: 06-52C MR: MSIR: WITHDRAWAL REQ.: MR: 20993 TASK: 87-012.24

DESCRIPTION
 TYPE: 1) 1/6 SIZE (IN.): 1/2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF 5H SCHEDULE: 00 ASME CLASS: GRADE:
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: RD SYSTEM ASSIGNED LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: [Y/N]
 ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE
 VENDOR1: PSI P.O.1: DATE 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: DATE 2: 1/1
 VENDOR3: RECITEC P.O.3: FMS58836 DATE 3: 07/17/87 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION
 CMTR DATE: 1/1 HEAT NUMBER: CFY SPECIFICATION: SA105
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
 START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: 0 TENSILE: 0

LAB TESTING
 DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLE-Plug, RED-Reducer, SWG-Swage
- 3) ANN-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
- 4) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SW-Socket Weld, TH-Threaded, MW-Welding Neck

ATTACHMENT I
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 20.00 LAST UPDATED: 07/15/88 DATE IDENTIFIED: / / 30-DAY ACTION DATE: / /

DOCUMENTATION

MCR: NONE M01: #0035 PDC: 86-52C MR: MRIR: WITHDRAWAL RES.: MR: 2099J TASK: 87-017.24

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: AF SM SCHEDULE: B ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: (W-WAREHOUSE, P-PLANT) 0: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: / / VENDOR2: CONSOLIDATED PIPE P.O.2: / /
VENDOR3: BECTEL P.O.3: F#558038 DATE 3: 07/17/87 VENDOR4: P.O.4: / /

MATERIAL CERTIFICATION

DATA DATE: / / HEAT NUMBER: 07 SPECIFICATION: SA103
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CDR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CDR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) R=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WW=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 20.09 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
MCR: 808E M01: 84035 POC: 86-52C M0: M0R: WITHDRAWAL REQ.: MBR: 2099 TASK: 87-012.24

DESCRIPTION
TYPE: FLG SIZE (IN.): 4 PRESSURE: 3000 HEAT TREATMENT: CATEGORY: FF M0 SCHEDULE: 40 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI P.O. 1: VENDOR2: CONSOLIDATED PIPE P.O. 2: 1/1
VENDOR3: BECHTEL P.O. 3: FM258836 DATE 3: 07/17/87 VENDOR4: P.O. 4: 1/1

MATERIAL CERTIFICATION
MTR DATE: 1/1 HEAT NUMBER: 81M SPECIFICATION: S410S
CAR: 0.000 M0N: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 M0L: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 M0N: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 M0L: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- 11) Automatically calculated by the Database. DO NOT ENTER.
- 12) FLG-flange, ELB-Elbow, TEE, CAP, CPT-Coupling, EXP-Expander, PLB-Plug, RED-Reducer, SMS-Swage
- 13) ANN-Annealed, NORM-Normalized, QAT-Buench & Temper, TEM-Tempering
- 14) R-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 20.10 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION
MCR: NONE M01: H0035 PDC: B6-52C M0: M01B: WITHDRAWAL REQ.: MRR: 20993 TASK: 87-012.24

DESCRIPTION
TYPE: FLG SIZE (IN.): 4 PRESSURE: 3000 HEAT TREATMENT: CATEGORY: FF EN SCHEDULE: 40 ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: PSI DATE 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: 1/1
VENDOR3: BECATEL DATE 3: 07/17/87 VENDOR4: P.O.4: 1/1

MATERIAL CERTIFICATION
ENTR DATE: 1/1 HEAT NUMBER: BLN SPECIFICATION: SA105
CAR: 0.000 MARK: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP6: EQUTIP INVERSE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MARK: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUTIP AVG.:

REMARKS

Automatically calculated by the Database. DO NOT ENTER.
FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, ESP=Expander, PLG=Plug, RED=Reducer, SWS=Swage
ANN=Annealed, NORM=Normalized, QLT=Quench & Temper, TEM=Tempering
RL=Roll, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 21.01 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 88-053 MRI: 04433 PDC: 06-52B MR: 00000 MTR: 00000 WITHDRAWAL REQ.: NO TAG: 07-012.73

DESCRIPTION

TYPE: ELF SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: AS CATEGORY: RF SM SCHEDULE: ASME CLASS: GRADE: SA-312
SYSTEM NO.: 00000 PC-DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIB: NO NUMBER: 00000

EXAM

DATE 1: L J VENDOR2: CONSOLIDATED PIPE P.O.2: 066-0141 DATE 2: 07/14/87
F.O.3: 08563460 DATE 3: 07/15/87 VENDOR4: 00000 P.O.4: L J

PROPERTY

ITEM NO: 00000 SPECIFICATION: SA-312
QTY: 1 P-NO: 0.010 SOL: 0.010 NIC: 0.000 DR: 0.000 MOL: 0.000 SIL: 0.270
YIELD: 53.000 ELONGATION: 25.0 REDUCTION: 67.0 HARDNESS: 0

TESTING

DATE: 07/28/86 DATE RECEIVED: 08/04/88 EQUOTIP1: 369 EQUOTIP2: 375 EQUOTIP3: 375 EQUOTIP4: 376 EQUOTIP5: 379 EQUOTIP AVERAGE: 375
HARDNESS: 25 TEMPLE: 53.000

LAB TESTING

DATE TO LAB: 08/03/89 DATE RESULTS RECEIVED: 08/04/88
CAR: 6.100 RAN: 1.060 PHOS: 0.323 SUL: 6.614 NIC: 0.070 DR: 0.130 MOL: 0.010 SIL: 0.240
TEMPLE: 67.000 YIELD: 47.000 ELONGATION: 22.0 REDUCTION: 62.0 HARDNESS: 143 EQUOTIP AVG.: 00000

REMARKS

HEAT 0 "CY" NOT VISIBLE ON PART. APPEARS TO BE "7427". TWO TESTS DONE.
RADIUS TEST REPORTED. FACE TEST HARDNESS 119.

1) Automatically calculated by the Database. DO NOT ENTER.

2) FLG-Flange, ELB-Elbow, YEE, DRP, CPL-Coupling, EXP-Expander, PLB-Plug, RED-Reducer, SMS-Swage

3) ANW-Annealed, NORM-Normalized, QAT-Quench & Temper, TEM-Tempering

4) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WW-Welding Neck

ATTACHMENT: 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 21.02 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MLR: NONE MRI: 04433 PDC: 06-528 MR: MPJR WITHDRAWAL REQ.: MR: 20933 TASK: 07-012.21

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: RF SH CATEGORY: ASME CLASS: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: IN-WAREHOUSE, P-PLANT Q: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O. 2: 066-0141 DATE 2: 07/14/87
VENDOR3: BECCTEL P.O. 3: 08563460 DATE 3: 07/15/87 VENDOR4: 0 P.O. 4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

CTR DATE: 1/1 HEAT NUMBER: CFY SPECIFICATION: SA-195
CAR: 0.250 MAN: 1.250 PHOS: 0.010 SUL: 0.019 NIC: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.270
TENSILE: 06,720 YIELD: 53,090 ELONGATION: 15.0 REDUCTION: 67.8 HARDNESS: 0

EDUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EDUOTIP1: 0 EDUOTIP2: 0 EDUOTIP3: 0 EDUOTIP4: 0 EDUOTIP5: 0 EDUOTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CAR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EDUOTIP AVG.: 0

REMARKS

- 101 Automatically calculated by the Database. DO NOT ENTER.
- 102 FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 103 ANN=Annealed, NORM=Normalized, QBT=Quench & Temper, TEM=Tempering
- 104 BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 21-03 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCR: NONE M01: R4433 PDC: 86-528 M0. WITHDRAWAL REQ.: MR: 20933 TASK: 87-012.23

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: AS CATEGORY: RF SM SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: [W-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O. 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O. 2: 066-0141 DATE 2: 07/14/87
VENDOR3: BECKETT P.O. 3: F0563460 DATE 3: 07/15/87 VENDOR4: P.O. 4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 1/1 HEAT NUMBER: CSY SPECIFICATION: S4105
CAR: 0.250 MAN: 1.350 PHOS: 0.030 SUL: 0.039 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.270
TENSILE: 84,725 YIELD: 53,890 ELONGATION: 35.0 REDUCTION: 67.8 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANW=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- (4) BL=Blind, RW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 22-01 LAST UPDATED: 07/15/89 DATE IDENTIFIED: 07/01/89 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 88-053 MW1: W286-1 PDC: 03-25 MW: 03-25 MWR: 03-25 WITHDRAWAL REQ.: 02-0119 TASK: 02-0119

DESCRIPTION

TYPE: FL6 SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: 0 CATEGORY: RF 00 SCHEDULE: 40 ASME CLASS: 2 GRADE: 0
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: 0 (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: 020 P.O.1: 1-1 VENDOR2: STANDARD PIPE P.O.2: 1-1 DATE 2: 1-1
VENDOR3: BECHTEL P.O.3: 01/04/84 VENDOR4: 0 P.O.4: 1-1 DATE 4: 1-1

MATERIAL CERTIFICATION

HEAT NUMBER: 6111375 SPECIFICATION: S4100
CMR DATE: 1-1 PHOS: 0.910 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
CAR: 0.200 MAN: 0.000 YIELD: 51,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0
TENSILE: 00,000

EQDOTIP TESTING

START DATE: 1-1 DATE COMPLETED: 1-1 EQDOTIP1: 0 EQDOTIP2: 0 EQDOTIP3: 0 EQDOTIP4: 0 EQDOTIP5: 0 EQDOTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAP: 1-1 DATE RESULTS RECEIVED: 1-1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQDOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL6=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, OQT=Quench & Temper, TEM=Tempering
- 4) RL=Roll, BW=Butt Weld, FF=Flat face, LL=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WW=Welding Neck

ATTACHMENT 1

MRC BULLETIN 89-05 DATABASE RECORD

COMPONENT NUMBER: 22-82 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCR: 89ML M01: 8286-1 PDC: 03-22 MR: MHR: WITHDRAWAL REQ.: MMR: 2282 TRSM: 02-0119

DESCRIPTION

TYPE: F/G SIZE (IN.): 0 PRESSURE: 15# HEAT TREATMENT: CATEGORY: AF MH SCHEDULE: 4# ASME CLASS: 2 GRADE: SYSTEM NO.: # SYSTEM DESCRIPTION: #0 SYSTEM ASSIGNED LOCATION: [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: [Y/N] ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: #2# DATE 1: 1/1 VENDOR2: STANDARD PIPE P.O.2: 1/1 VENDOR3: BECATEL DATE 3: 01/04/84 VENDOR4: P.O.4: 1/1

MATERIAL CERTIFICATION

CNR DATE: 1/1 HEAT NUMBER: 6111372 SPECIFICATION: S21P2 CAR: 0.20# MAM: 0.91# PHOS: 0.012 SUL: 0.02# NICK: 0.00# CHR: 0.00# MOL: 0.00# SIL: 0.19# TENSILE: 80,000 YIELD: 51,000 ELONGATION: 17.0 REDUCTION: 61.0 HARDNESS: 0

EDUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EDUOTIP1: EDUOTIP2: EDUOTIP3: EDUOTIP4: EDUOTIP5: EDUOTIP AVERAGE: HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1 CAR: 0.00# MAM: 0.00# PHOS: 0.00# SUL: 0.00# NICK: 0.00# CHR: 0.00# MOL: 0.00# SIL: 0.00# TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EDUOTIP AVG.:

REMARKS

- Automatically calculated by the Database. DO NOT ENTER.
- FLG-Flange, ELB-Elbow, YEE, CAP, CFI-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SW6-Swage
- ANN-Annealed, NORM-Normalized, QAT-Quench & Temper, ITM-Tempering
- BL-Blind, BR-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WW-Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 22.01 LAST UPDATED: 07/15/82 DATE IDENTIFIED: 1/1 30-DAY ACTION DATE: 1/1

DOCUMENTATION

MCR: 80NE M01: 8286-1 PDC: 03-25 MR: 01/04/84 WITHDRAWAL REG.: MR: 2-82 TAGN: 02-0119

DESCRIPTION

TYPE: 116 SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: 0 CATEGORY: 0 SCHEDULE: 40 ASME CLASS: 2 GRADE: 0
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: WAREHOUSE, P-PLANT B: Y (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: BJN P.O. 1: 1/1 VENDOR2: STANDARD PIPE P.O. 2: 1/1
VENDOR3: BECA TEL P.O. 3: 01/04/84 VENDOR4: 0 P.O. 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 1/1 HEAT NUMBER: 6211375 SPECIFICATION: SA193
CAR: 0.200 MAR: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80.600 YIELD: 51.000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: 0 EQUTIP2: 0 EQUTIP3: 0 EQUTIP4: 0 EQUTIP5: 0 EQUTIP AVERAGE: 0
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUTIP AVE.: 0

REMARKS

- *** Automatically calculated by the Database. DO NOT ENTER.
- ** F-flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMS=Seam
- ** ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- ** BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SM=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 23-01 LAST UPDATED: 07/27/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE: 07/27/88
DOCUMENTATION
ACR: 88-052 MRL: 84267 PRC: 86-528 MR: MR18: WITHDRAWAL REQ.: MRP: 20190 TASK: 87-012.23

DESCRIPTION
TYPE: FLG SIZE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF 88 SCHEDULE: 40 ASME CLASS: GRADE:
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: M (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 8-218 SP. 1

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: DATE 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: 066-0109 DATE 2: 06/23/87
VENDOR3: BECNTEL P.O.3: FMS8370 DATE 3: 06/26/87 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION
CTR DATE: 1/1 HEAT NUMBER: 6X11375 SPECIFICATION: SA105
CAR: 0.200 MAR: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80,600 YIELD: 51,000 ELONGATION: 22.0 REDUCTION: 61.0 HARDNESS: 0

EDUOTIP TESTING
START DATE: 1/188 DATE COMPLETED: 07/22/88 EDUOTIP1: 401 F-011P2: 401 EDUOTIP3: 398 EDUOTIP4: 398 EDUOTIP5: 398 EDUOTIP AVERAGE: 399
HARDNESS: 1.2 TENSILE: 66,500

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EDUOTIP AVG.: 0

REMARKS
PARTS STAMPED HEAT 0 "6X1137", CTR 0 MR 5400 "6X11375".

** Automatically calculated by the Database. DO NOT ENTER.
@ FLG-Flange, ELB-Elbow, Tee, CAP, CPL-Coupling, EXP-Expander, PLB-Plug, RED-Reducer, SWG-Swage
@ ANW-Annealed, NORM-Normalized, QT-Quench & Temper, TEM-Tempering
@ BL-Blind, RB-Bolt Weld, FF-Flat Face, L3-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 23-02 LAST UPDATED: 07/27/88 DATE IDENTIFIED: 06/27/88 30-DAY ACTION DATE: 07/27/88

DOCUMENTATION
MCD: 88-052 M01: 04267 PDC: 06-528 MR: _____ MSIR: _____ WITHDRAWAL RED.: _____ TASK: 87-012.23

DESCRIPTION
TYPE: FLG SIZE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: _____ CATEGORY: FF-88 SCHEDULE: 40 ASME CLASS: _____ GRADE: _____
SYSTEM NO.: 10 SYSTEM DESCRIPTION: RESIDUAL HEAT REMOVAL SYSTEM LOCATION: P (IN-WAREHOUSE, P-PLANT) Q: Y [Y/N] SAFETY RELATED: N [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: 0-210 SW-1

CHAIN OF PURCHASE
VENDOR1: PSI P.O.1: _____ DATE 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: 066-0109 DATE 2: 06/23/87
VENDOR3: RECHTEL P.O.3: FW558370 DATE 3: 06/26/87 VENDOR4: _____ DATE 4: 1/1

MATERIAL CERTIFICATION
CTR DATE: 1/1 HEAT NUMBER: 6811375 SPECIFICATION: S4105
CAR: 0-200 MAN: 0-910 PHOS: 0-012 SUL: 0-070 NIC: 0-000 CHR: 0-000 MOL: 0-000 CIL: 0-190
TENSILE: 00-000 YIELD: 51-000 ELONGATION: 32-0 REDUCTION: 61-0 HARDNESS: 0

EQUOTIP TESTING
START DATE: 07/21/88 DATE COMPLETE: 07/21/88 EQUOTIP1: 433 EQUOTIP2: 478 EQUOTIP3: 435 EQUOTIP4: 426 EQUOTIP5: 430 EQUOTIP AVERAGE: 430
HARDNESS: 153 TENSILE: 74-000

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0-000 MAN: 0-000 PHOS: 0-000 SUL: 0-000 NIC: 0-000 CHR: 0-000 MOL: 0-000 SIL: 0-000
TENSILE: 0 YIELD: 0 ELONGATION: 0-0 REDUCTION: 0-0 HARDNESS: 0 EQUOTIP AVG.: _____

REMARKS
PARTS STAMPED HEAT # "681137", CTR & MR SHOW "6811375".

- 111 Automatically calculated by the Database. DO NOT ENTER.
- 112 FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- 113 ANN-Annealed, NORM-Normalized, DQT-Quench & Temper, TEM-Tempering
- 114 RL-Blind, SW-Butt Weld, FF-flat face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, 50-51ip Dn, SW-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 98-MS DATABASE RECORD

COMPONENT NUMBER: 23.03 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 08-053 MRL: R4767 PDC: 06-528 MR: MRIR WITHDRAWAL REQ.: MR: 20190 TASK: 07-012.03

DESCRIPTION

TYPE: FLG SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: FF CATEGORY: FF SCHEDULE: 4B ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: N [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR: P21 P.O. 1: 1/1 VENDOR: CONSOLIDATED PIPE P.O. 2: 066-0109 DATE 2: 06/23/87
VENDOR: BECHTEL P.O. 3: FM558370 DATE 3: 06/26/87 VENDOR 4: P.O. 4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 1/1 HEAT NUMBER: 6X11375 SPECIFICATION: S.A105
CAR: 0.200 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80,600 YIELD: 51,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIT: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

HEATED HEAT # "6X1137". CMR # MRB SHOWN "6X1137".

Automatically calculated by the Database. DO NOT ENTER.
FLG=Flange, ELB=Elbow, CS=CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMS=Seam
ANN=Annular, NORM=Normalized, RL=Lapped Joint, RF=Raised Face, R=Ring Joint, SO=Socket Weld, TH=Threaded, WR=Welding Neck
BL=Blind, BW=Butt Weld, FF=Flat Face, LL=Lapped Joint, RF=Raised Face, R=Ring Joint, SO=Socket Weld, TH=Threaded, WR=Welding Neck

ATTACHMENT 1
MRC BULLETIN 68-85 DATABASE RECORD

COMPONENT NUMBER: 23.84 LAST UPDATED: 07/15/88 DATE IDENTIFIED: 07/01/83 38-DAY ACTION DATE: 07/31/88

DOCUMENTATION

MCR: 68-051 MRI: M4267 POC: 86-528 MR: MRR: 20190 WITHDRAWAL REQ.: TASK: 87-012.23

DESCRIPTION

TYPE: FLG SIZE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: CATEGORY: FF # SCHEDULE: 40 ASME CLASS: GRADE: LOCATION: H (M-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: N (Y/N)
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSJ P.O.1: DATE 1: 1/1 VENDOR2: CONSOLIDATED PIPE P.O.2: D66-0109 DATE 2: 06/23/87
VENDOR3: BECHTEL P.O.3: FMS50370 DATE 3: 06/26/87 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 1/1 HEAT NUMBER: 6X11375 SPECIFICATION: SA145
CAR: 0.200 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80,600 YIELD: 51,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 6

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

PARTS STAMPED HEAT # 6X11375. CNTR & MRR SHOW 6X11375.

11* Automatically calculated by the Database. DO NOT ENTER.
12* FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWG=Swage
13* ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
14* BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 24.01 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-053 MRI: _____ PDC: _____ MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MRR: 679J TASK: 84-028

DESCRIPTION
TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: _____ CATEGORY: _____ SCHEDULE: _____ ASME CLASS: _____ GRADE: _____
SYSTEM NO.: _____ SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M [W=WAREHOUSE, P=PLANT] Q: M [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: _____

CHAIN OF PURCHASE
VENDOR1: MJM P.O.1: _____ DATE 1: / / VENDOR2: BECHTEL P.O.2: F#4128 DATE 2: / /
VENDOR3: _____ P.O.3: _____ DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

MATERIAL CERTIFICATION
DATE: / / HEAT NUMBER: 66048 SPECIFICATION: S4195
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: _____ YIELD: _____ ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: _____

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: _____

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: _____ YIELD: _____ ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: _____ EQUOTIP AVG.: _____

REMARKS
TEMP. 800. 84-028

(1) Automatically calculated by the Database. DO NOT ENTER.
(2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
(3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
(4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24-02 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-053 MBI: PDC: MRIR: WITHDRAWAL REQ.: MRR: 6793 TASK: 84-028

DESCRIPTION
TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: H [W-WAREHOUSE, P-PLANT] Q: H [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: H/N P.O.1: DATE 1: / / VENDOR2: BECHTEL P.O.2: F4128 DATE 2: / /
VENDOR3: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION
CTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: S410S
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: / / DATE COMPLETE: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS
TEMP. MOD. 0 84-028

1) Automatically calculated by the Database. DO NOT ENTER.
2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WW=Welding Neck

ATTACHMENT I
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.03 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

MCR: 88-053 MRI: POC: MR: MRIR: WITHDRAWAL RED.: MRR: 6793 TASK: 84-028

DESCRIPTION

TYPE: FLO SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: H [W-WAREHOUSE, P-PLANT] Q: N [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: H/J DATE 1: / / VENDOR2: BECHTEL P.O.2: F#4126 DATE 2: / /
VENDOR3: P.O.3: / / VENDOR4: P.O.4: / /

MATERIAL CERTIFICATION

DATE: / / HEAT NUMBER: 66042 SPECIFICATION: SA195
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

TEMP. MOD. 0 84-028

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) F=Flange, EL=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) RL=Roll, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.04 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-053 MRI: POC: MR: MRIR: WITHDRAWAL REQ.: MRR: 6793 TASK: 84-021

DESCRIPTION
TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (M-WAREHOUSE, P-PLANT) Q: M (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: M/M DATE 1: / / VENDOR2: BECHTEL P.O.2: FM4128 DATE 2: / /
VENDOR3: DATE 3: / / VENDOR4: DATE 4: / /

MATERIAL CERTIFICATION
CMTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SA105
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS
TEMP. 800. 84-028

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELP=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage
- 3) ANW=Annealed, NORM=Normalized, Q&T=Quench & Temper, TE=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24-05 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-053 MRI: _____ PDC: _____ MR: _____ MRR: _____ WITHDRAWAL REQ.: _____ MRR: 6793 TASK: 84-028

DESCRIPTION
TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: _____ CATEGORY: _____ SCHEDULE: _____ ASME CLASS: _____ GRADE: _____
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (W=WAREHOUSE, P=P-ANT) Q: M (Y/N) SAFETY RELATED: [Y/N]
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: _____

CHAIN OF PURCHASE
VENDOR1: MJR P.O.1: _____ VENDOR2: BECHTEL P.O.2: FR4728 DATE 2: 1/1
VENDOR3: _____ P.O.3: _____ VENDOR4: _____ DATE 3: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
MTR DATE: 1/1 HEAT NUMBER: 66048 SPECIFICATION: SA105
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: _____

REMARKS
TEMP. MOD. 0 84-028

1) Automatically calculated by the Database. DO NOT ENTER.
2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
4) BL=Blind, RM=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 24.86 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
MCR: 88-053 MRI: _____ POC: _____ MR: _____ MRIR: _____ WITHDRAWAL RED.: _____ MRR: 6793 TASK: 84-028

DESCRIPTION
TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: _____ CATEGORY: _____ SCHEDULE: _____ ASME CLASS: _____ GRADE: _____
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (M=WAREHOUSE, P=PLANT) Q: M (Y/N) SAFETY RELATED: [Y/N]
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: _____

CHAIN OF PURCHASE
VENDOR1: M/J P.O.1: _____ DATE 1: / / VENDOR2: BECHTEL P.O.2: FM428 DATE 2: / /
VENDOR3: _____ P.O.3: _____ DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

MATERIAL CERTIFICATION
CTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: S410S
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: 0

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: _____

REMARKS
I.M.P. MOD. 0 84-028

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FL=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 86-05 DATABASE RECORD

COMPONENT NUMBER: 24.07 LAST UPDATED: 07/17/89 DATE IDENTIFIED: 07/01/89 30-DAY ACTION DATE: 07/31/89

DOCUMENTATION

NCR: 88-053 MR1: PDC: MR: MRR: 6793 TASK: 84-078

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 15# HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: (W=WAREHOUSE, P=PLANT) Q: (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: RJM P.O.1: DATE 1: / / VENDOR2: BECHTEL P.O.2: FM4128 DATE 2: / /
VENDOR3: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SA105
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

TTP, MOD. # 84-078

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWB=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) SL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 24.00 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 88-053 MRC: MRI: PDC: MR: MRA: MRR: 6703 WITHDRAWAL REQ.: TASK: 84-028

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 15# HEAT TREATMENT: CATEGORY: SCHEDULE: CSME CLASS: GRADE:
SYSTEM NO.: # SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (M=WAREHOUSE, P=PLANT) Q: M (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: M/J P.C.1: DATE 1: / / VENDOR2: BECNTEL P.O.2: F04120 DATE 2: / /
VENDOR3: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: / / HEAT NUMBER: 60058 SPECIFICATION: SA105
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUR: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: # YIELD: # ELONGATION: 2.0 REDUCTION: 0.0 HARDNESS: #

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: # YIELD: # ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: # EQUOTIP AVG.:

REMARKS

TEMP. MOD. # 84-028

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 24.07 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 38-DAY ACTION DATE: 07/31/88

DOCUMENTATION

MCP: 88-053 MRI: PDC: MRJ: MRP: MRR: 6793 TASK: 84-028

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE: SYSTEM NO.: NO SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M [M-WAREHOUSE, P-PLANT] B: M [Y/N] SAFETY RELATED: [Y/N] ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: M7M P.O.1: DATE 1: / / VENDOR2: BECHTEL P.O.2: FK4128 DATE 2: / / VENDOR3: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SA105 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE: HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

TEMP. MOD. 84-028

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FL=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.10 LAST UPDATED: 07/17/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 88-053 MBI: _____ PDC: _____ MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MRR: 6793 TASK: 84-021

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: _____ CATEGORY: _____ SCHEDULE: _____ ASME CLASS: _____ GRADE: _____
 SYSTEM NO.: _____ SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: H (W=WAREHOUSE, P=PLANT) Q: H (Y/N) SAFETY RELATED: (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER: _____

CHAIN OF PURCHASE

VENDOR1: M/A P.O.1: _____ DATE 1: / / VENDOR2: BECHTEL P.O.2: FM4128 DATE 2: / /
 VENDOR3: _____ P.O.3: _____ DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: S4105
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
 HARDNESS: _____ TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: _____

REMARKS

TEMP. 80P. 0 84-028

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

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COMPONENT NUMBER: 24.11 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE⁽¹⁾: 07/31/88

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DOCUMENTATION

NCR: 88-053 MRI: PDC: MR: MRIR: WITHDRAWAL REQ.: MRR: 6793 TASK: 84-028

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DESCRIPTION

TYPE⁽²⁾: FLG SIZE (IN.): 2 PRESSURE: 15# HEAT TREATMENT⁽³⁾: CATEGORY⁽⁴⁾: SCHEDULE: ASME CLASS: GRADE:
 SYSTEM NO.: # SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: # (W=WAREHOUSE, P=PLANT) Q: # (Y/N) SAFETY RELATED: (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

=====

CHAIN OF PURCHASE

VENDOR1: RJM P.O.1: DATE 1: / / VENDOR2: BECHTEL P.O.2: FN4128 DATE 2: / /
 VENDORS: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

=====

MATERIAL CERTIFICATION

CNTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SA105
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MGL: 0.000 SIL: 0.000
 TENSILE: # YIELD: # ELONGATION: #.# REDUCTION: #.# HARDNESS: #

=====

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE: #

=====

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MGL: 0.000 SIL: 0.000
 TENSILE: # YIELD: # ELONGATION: #.# REDUCTION: #.# HARDNESS: # EQUOTIP AVG.:

=====

REMARKS

TEMP. MOD. # 84-028

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⁽¹⁾ Automatically calculated by the Database. DO NOT ENTER.
⁽²⁾ FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
⁽³⁾ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
⁽⁴⁾ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.12 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

MR: 88-053 MRI: PDC: MR: MRIP: MITHRAMAL RED.: MPR: 6793 TASK: 84-028

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: ASME CLASS: GRADE: LOCATION: # [W=WAREHOUSE, P=PLANT] @: # [Y/N] SAFETY RELATED: [Y/N]
SYSTEM NO.: # SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED DRAWING NUMBER:
ACCESSIBLE: Y [Y/N]

CHAIN OF PURCHASE

VENDOR1: #/# VENDOR2: BECHTEL P.O.2: F#4128 DATE 2: / /
VENDOR3: VENDOR4: P.O.3: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SA105
CAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EDUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EDUOTIP1: EDUOTIP2: EDUOTIP3: EDUOTIP4: EDUOTIP5: EDUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAPS: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 NMC: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EDUOTIP AVG.:

REMARKS

TEMP. MOD. 0 84-028

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) RL=Blind, RW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, R=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 24.13 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

MCR: 88-05J MRL: PDC: MR: MRIR: WITHDRAWAL REQ.: MRR: 6793 TASK: 84-028

DESCRIPTION

TYPE: FL6 SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: W-WAREHOUSE, P-PLANT Q: W [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: W/M P.O.1: DATE 1: VENDOR2: BECHTEL P.O.2: F#4128 DATE 2:
VENDOR3: P.O.3: DATE 3: VENDOR4: P.O.4: DATE 4:

MATERIAL CERTIFICATION

CNTR DATE: HEAT NUMBER: 66048 SPECIFICATION: S4105
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: DATE COMPLETED: EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: DATE RESULTS RECEIVED:
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

TEMP. MOD. # 84-028

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FL6=Flange, EL6=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SW6=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temp r, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, 50=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.14 LAST UPDATED: 07/17/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-053 MRI: _____ MR: _____ MRR: 6793 TASK: 84-028
PDC: _____ WITHDRAWAL REQ.: _____

DESCRIPTION
TYPE: FLG SIZE(IN.): 2 PRESSURE: 150 HEA TREATMENT: _____ CATEGORY: _____ SCHEDULE: _____ ASME CLASS: _____ GRADE: _____
SYSTEM NO.: _____ SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (M-WAREHOUSE, P-PLANT) Q: M [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: _____

CHAIN OF PURCHASE
VENDOR1: BJH DATE 1: / / VENDOR2: BECHTEL P.O.2: F44128 DATE 2: / /
VENDOR3: _____ DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

MATERIAL CERTIFICATION
CTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SAT05
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: _____ YIELD: _____ ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: _____

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: _____

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: _____ YIELD: _____ ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: _____ EQUOTIP AVG.: _____

REMARKS
TEMP. MOD. 0 84-028

11) Automatically calculated by the Database. DO NOT ENTER.
12) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, FLG=Plug, RED=Reducer, SMG=Seage
13) ANN=Annealed, NORM=Normalized, BQT=Cuench & Temper, TEM=tempering
14) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.15 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01 30-DAY ACTION DATE¹¹¹: 07/31/88

DOCUMENTATION

MCR: 88-053 MRI: PDC: NR: MRIR: WITHDRAWAL REQ.: MRR: 6793 TASK: 84-028

DESCRIPTION

TYPE¹²²: FLG SIZE(IN.): 2 PRESSURE: 150 HEAT TREATMENT¹²³: CATEGORY¹²⁴: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: W [W=WAREHOUSE, P=PLANT] Q: N [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: RJM P.O.1: DATE 1: / / VENDOR2: BECHTEL P.O.2: FN4128 DATE 2: / /
VENDORS: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SA105
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

TEMP. MOD. # 84-028

¹¹¹ Automatically calculated by the Database. DO NOT ENTER.

¹²² FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage

¹²³ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

¹²⁴ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.16 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 88-053 MRI: POC: MRIR: WITHDRAWAL REQ.: MRP: 6793 TASK: 84-028

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (W=WAREHOUSE, P=PLANT) 0: M [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: BJM P.O.1: DATE 1: / / VENDOR2: BECHTEL P.O.2: F44128 DATE 2: / /
VENDOR3: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: S4105
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

TEMP. MOD. 0 84-028

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TE=CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TM=Tempering
- (4) Fc=Blind, SW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MW=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.17 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION

NCR: 88-053 MRC: PDC MR: MRR: WITHDRAWAL REQ.: MRR: 6793 TASK: 84-029

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M [W-WAREHOUSE, P-PLANT] Q: M [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: M/J P.O.1: / / VENDOR2: BECNTEL P.O.2: F4478 DATE 2: / /
VENDOR3: P.O.3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SA105
CAR: 0.000 MAN: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

TEMP. MOD. 0 84-028

1) Automatically calculated by the Database. DO NOT ENTER.
2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMS=Swage
3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, PJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 24.1B LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
MCR: 88-053 MRI: _____ PDC: _____ MRR: _____ WITHDRAWAL REQ.: _____ MRR: 6793 TASK: 84-028

DESCRIPTION
TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: _____ CATEGORY: _____ SCHEDULE: _____ ASME CLASS: _____ GRADE: _____
SYSTEM NO.: _____ SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: # [W=WAREHOUSE, P=PLANT] 0: # [Y/N] SAFETY RELATED: [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: _____

CHAIN OF PURCHASE
VENDOR1: #/M DATE 1: / / VENDOR2: BECHTEL P.O.2: F4178 DATE 2: / /
VENDOR3: _____ DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

MATERIAL CERTIFICATION
MTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SAT05
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 TON: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: _____

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: _____

REMARKS
TEMP. 00. 84-028

*** Automatically calculated by the Database. DO NOT ENTER.
** FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, FLE=Plug, RED=Reducer, SWG=Swage
*** ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
*** BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 24.19 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
NCR: 88-053 MRI: _____ PDC: _____ MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MRR: 6793 TASK: 04-078

DESCRIPTION
TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: _____ CATEGORY: _____ SCHEDULE: _____ ASME CLASS: _____ GRADE: _____
SYSTEM NO.: _____ SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (M=WAREHOUSE, P=PLANT) Q: M (Y/N) SAFETY RELATED: [Y/N]
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: _____

CHAIN OF PURCHASE
VENDOR1: AJM P.O.1: _____ DATE 1: / / VENDOR2: BECHTEL P.O.2: F#4128 DATE 2: / /
VENDOR3: _____ P.O.3: _____ DATE 3: / / VENDOR4: _____ P.O.4: _____ DATE 4: / /

MATERIAL CERTIFICATION
CTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SAL05
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUOTIP1: _____ EQUOTIP2: _____ EQUOTIP3: _____ EQUOTIP4: _____ EQUOTIP5: _____ EQUOTIP AVERAGE: _____
HARDNESS: _____ TENSILE: _____

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: _____

REMARKS
TEMP. 800. 0 84-028

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANW=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SU=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 24.2# LAST UPDATED: 87/19/88 DATE IDENTIFIED: 87/01/88 30-DAY ACTION DATE: 87/31/88

DOCUMENTATION

MCR: 88-85J MRI: PDC: MR: MRIR: WITHDRAWAL REQ.: MRR: 6793 TASK: 84-828

DESCRIPTION

TYPE: 1# SIZE(IN.): 2 PRESSURE: 15# HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: # SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: # (M=WAREHOUSE, P=PLANT) Q: # (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: #JM P.O.1: DATE 1: / / VENDOR2: BECTEL P.O.2: 6M4128 DATE 2: / /
VENDOR3: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

DATE: / / HEAT NUMBER: 66848 SPECIFICATION: SAMS
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: # YIELD: # ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: #

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: # TENSILE: #

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: # YIELD: # ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: # EQUOTIP AVG.:

REMARKS

TEMP. MOD. # 84-828

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 24.21 LAST UPDATED: 07/19/88 DATE IDENTIFIED: 07/01/88 30-DAY ACTION DATE: 07/31/88

DOCUMENTATION
MCR: 88-053 MRI: PDC: MR: MRR: WITHDRAWAL REQ.: MRR: 6793 TASK: 84-028

DESCRIPTION
TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: SCHEDULE: ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: M (M=WAREHOUSE, P=PLANT) Q: N (Y/N) SAFETY RELATED: (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: MJM P.O.1: DATE 1: / / VENDOR2: BECNTEL P.O.2: FM4128 DATE 2: / /
VENDOR3: P.O.3: DATE 3: / / VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION
MTR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SA105
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0

EQUTIP TESTING
START DATE: / / DATE COMPLETED: / / EQUTIP1: EQUTIP2: EQUTIP3: EQUTIP4: EQUTIP5: EQUTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING
DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUTIP AVG.:

REMARKS
TEMP. 800. 0 84-028

1) Automatically calculated by the Database. DO NOT ENTER.
2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WW=Welding Neck

ATTACHMENT 1
MPC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24-22 LAST UPDATED: 08/03/88 DATE IDENTIFIED: 07/26/88 30-DAY ACTION DATE: 08/27/88

DOCUMENTATION

MCR: NONE MRI: POC MR: MRIR MRR: 6793 WITHDRAWAL REQ.: TASK: 04-098

DESCRIPTION

TYPE: FL6 SIZE(IN.): 2 PRESSURE: 150 HEAT TREATMENT: SM RF SCHEDULE: 80 ASME CLASS: GRADE:
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: [W=WAREHOUSE, P=PLANT] 0: N [Y/N] SAFETY RELATED: N [Y/N]
 ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: HJM P.O.1: DATE 1: / / VENDOR2: BECHTEL P.O.2: F4178 DATE 2: / /
 VENDOR3: DATE 3: / / VENDOR4: DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: / / HEAT NUMBER: 66040 SPECIFICATION: SAT#5
 CAR: MAN: PHOS: SUL: NIC: CHR: MOL: SIL:
 TENSILE: YIELD: 0 ELONGATION: REDUCTION: HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
 HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
 CAR: MAN: PHOS: SUL: NIC: CHR: MOL: SIL:
 TENSILE: YIELD: 0 ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

TEMP. NO. 0 24-020

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FL6=Flange, ELB=Elbow, TEE, COP, CPL=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SMS=Swage
- (3) ANR=Annealed, NOR=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.2J LAST UPDATED: 08/03/88 DATE IDENTIFIED: 07/26/88 30-DAY ACTION DATE: 08/25/88

DOCUMENTATION

NCR: NONE MRI: PDC: MRB: MRIR: MITHORAWAL RED.: MRR: 679J TASK: 04-078

DESCRIPTION

TYPE: F16 SIZE (IN.): 2 PRESSURE: 15# HEAT TREATMENT: CATEGORY: SW RF SCHEDULE: 6# ASME CLASS: GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: [W-WAREHOUSE, P-PLANT] Q: N (Y/N) SAFETY RELATED: N (Y/N)
ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: A/JM P.O. 1: / / VENDOR2: BECHTEL P.O. 2: FM428 DATE 2: / /
VENDOR3: P.O. 3: / / VENDOR4: P.O. 4: DATE 4: / /

MATERIAL CERTIFICATION

CMTR DATE: / / HEAT NUMBER: 66008 SPECIFICATION: SA1#5
CAR: MAM: PHOS: SUL: CHR: MOL: SIL:
TENSILE: 0 YIELD: 0 ELONGATION: REDUCTION: HARDNESS:

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: MAM: PHOS: SUL: NIC: CHR: MOL: SIL:
TENSILE: 0 YIELD: 0 ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

TENF. ROD. # 04-078

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FL=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage
- (*) ANN=Annealed, NDRM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- (*) RL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WW=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 24.24 LAST UPDATED: 08/03/88 DATE IDENTIFIED: 07/26/88 30-DAY ACTION DATE: 09/25/88

DOCUMENTATION

MR: MRI: PDC: MR: MRIR: MDR: 6793 TASK: 84-098 WITHDRAWAL REQ.:

DESCRIPTION

TYPE: FLG SIZE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: SW RF SCHEDULE: 80 ASME CLASS: GRADE: SYSTEM NO.: 0 SYSTEM DESCRIPTION: NO SYSTEM ASSIGNED LOCATION: (W-WAREHOUSE, P-PLANT) Q: H (Y/N) SAFETY RELATED: H (Y/N) ACCESSIBLE: [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: 828 VENDOR2: BECNTEL P.D.1: DATE 1: / / VENDOR3: P.D.2: FM4128 DATE 2: / / P.D.3: DATE 3: / / VENDOR4: P.D.4: DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: / / HEAT NUMBER: 66048 SPECIFICATION: SAI#S MOL: SIL: CAR: MAN: PHOS: SUL: NIC: CHR: HARDNESS: TENSILE: 0 YIELD: 0 ELONGATION: REDUCTION: 0

EDUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EDUOTIP1: EDUOTIP2: EDUOTIP3: EDUOTIP4: EDUOTIP5: EDUOTIP AVERAGE: HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / DATE RESULTS RECEIVED: / / MOL: SIL: CAR: MAN: PHOS: SUL: NIC: CHR: HARDNESS: EDUOTIP AVG.: TENSILE: 0 YIELD: 0 ELONGATION: REDUCTION: 0

REMARKS

TEMP. MOD. 84-028

- 11) Automatically calculated by the Database. DO NOT ENTER.
- 12) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 13) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 14) RL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 25.01 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 07/19/88 30-DAY ACTION DATE: 08/13/88

DOCUMENTATION

MCR: 88-067 MBI: POC: 83-37 MR: MRIR: WITHDRAWAL REQ.: MRR: 2584 TASK: 82-0119

DESCRIPTION

TYPE: FLG SIZE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: AF WN CATEGORY: AF WN SCHEDULE: ASME CLASS: 2 GRADE: LOCATION: P (W-WAREHOUSE, P-PLANT) Q: (Y/N) SAFETY RELATED: N (Y/N)
SYSTEM NO.: 0 SYSTEM DESCRIPTION: AUGMENTED OFF-GAS ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0210

CHAIN OF PURCHASE

VENDOR: R2M P.O. 1: 1/1 VENDOR 2: STANDARD PIPE DATE 1: 1/1 DATE 2: 1/1
VENDOR 3: RECITEL P.O. 3: F18310 DATE 3: 01/04/83 VENDOR 4: P.O. 4: DATE 4: 1/1

MATERIAL CERTIFICATION

CONTR DATE: 12/07/83 HEAT NUMBER: 6X11375 SPECIFICATION: S4105
CAR: 0.200 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80.000 YIELD: 51.000 ELONGATION: 37.0 REDUCTION: 61.0 HARDNESS: 0

EDUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EDUOTIP1: 0 EDUOTIP2: 0 EDUOTIP3: 0 EDUOTIP4: 0 EDUOTIP5: 0 EDUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EDUOTIP AVG.: 0

REMARKS

- 11) Automatically calculated by the Database. DO NOT ENTER.
- 12) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-S-age
- 13) ANW-Annealed, NORM-Normalized, QNT-Quench & Temper, TEM-Tempering
- 14) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SC-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT I
 NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 25-#2 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 07/19/88 30-DAY ACTION DATE: 08/18/88

DOCUMENTATION

MCR: 08-#67 NRI: 03-39 PDC: 03-39 MRIR: 03-39 WITHDRAWAL REQ.: 03-39 MRR: 2584 TASK: 02-#119

DESCRIPTION

TYPE: FLG SIZE (IN.): 0 PRESSURE: 15# HEAT TREATMENT: 0 CATEGORY: RF-WH SCHEDULE: ASME CLASS: 2 GRADE: 0
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: AUGMENTED OFF-GAS LOCATION: P (W-WAREHOUSE, P-PLANT) Q: [Y/N] SAFETY RELATED: M [Y/N]
 ACCESSIBLE: Y [Y/N] DRAWING NUMBER: 021#

CHAIN OF PURCHASE

VENDOR1: 03# DATE 1: 1/1 VENDOR2: STANDARD PIPE P.O.2: 026# DATE 2: 1/1
 VENDOR3: BECCATEL DATE 3: 01/04/83 VENDOR4: 0 P.O.4: 0 DATE 4: 1/1

MATERIAL CERTIFICATION

QTR DATE: 12/09/83 HEAT NUMBER: 611175 SPECIFICATION: S4105
 CAR: 0.29# MAR: 0.91# PHOS: 0.012 SUL: 0.020 NIC: 0.000 UHR: 0.000 MOL: 0.003 SIL: 0.19#
 TENSILE: 60,000 YIELD: 51,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTS

START P: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP AVERAGE: 0
 HARDNESS: 0 TENSILE: 0

LAB TESTS

DATE TO: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 UHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- *** Automatically calculated by the Database. DO NOT ENTER.
- 1) FLG-Flange, ELB-Elbow, TEE, COP, CPL-Coupling, EXP-Expander, PLG-Plug, RED-Reducer, SWG-Swage
- 2) ANN-Annealed, NORM-Normalized, GQI-Quench & Temper, TEM-Tempering
- 3) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SD-Slip On, SW-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 25-03 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 07/19/88 30-DAY ACTION DATE: 08/18/88

DOCUMENTATION

MCR: 88-067 MBI: 83-39 PDC: 83-39 MD: 83-39 MRIR: 83-39 WITHDRAWAL REQ.: 83-39 MRR: 2584 TASK: 82-0119

DESCRIPTION

TYPE: FLG SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: 30 CATEGORY: RF SCHEDULE: ASME CLASS: 2 GRADE: 304
SYSTEM NO.: 0 SYSTEM DESCRIPTION: AUGMENTED OFF-GAS LOCATION: P (M-WAREHOUSE, P-PLANT) Q: [Y/N] SAFETY RELATED: N (Y/N)
ACCESSIBLE: Y (Y/N) WORKING NUMBER: 0210

CHAIN OF PURCHASE

VENDOR1: BECHTEL P.O.1: 1/1 VENDOR2: STANDARD PIPE P.O.2: 8260 DATE 1: 1/1 DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: FM18310 VENDOR4: 0 P.O.4: 0 DATE 3: 01/04/83 DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 12/09/83 HEAT NUMBER: 6111375 SPECIFICATION: SAT05
CAR: 0.200 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80,000 YIELD: 51,000 ELONGATION: 17.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMG=Seage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) B=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WP=Welding Neck

ATTACHMENT 1
WEC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 25.04 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 07/17/88 30-DAY ACTION DATE: 08/18/88

DOCUMENTATION

NCR: 88-067 MRI: PDC: 83-37 MR: MTR: WITHDRAWAL REQ.: MNR: 2584 TASK: 82-0115

DESCRIPTION

TYPE: FLG SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: CATEGORY: AF IN SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: AUGMENTED OFF-GAS LOCATION: P (IN-WAREHOUSE, P-PLANT) D: (Y/N) SAFETY RELATED: N (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0210

CHAIN OF PURCHASE

VENDOR1: M/M DATE 1: / / VENDOR2: STANDARD PIPE P.O.2: 0260 DATE 2: / /
VENDOR3: BECHTEL DATE 3: 01/04/83 VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNR DATE: 12/09/83 HEAT NUMBER: 6411375 SPECIFICATION: SA105
CAR: 0.200 MAN: 0.210 PHOS: 0.012 SUL: 0.020 NIC: 0.009 CHR: 0.000 MOL: 0.000 SIL: 0.170
TENSILE: 80,000 YIELD: 51,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LL=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 25.05 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 07/17/88 30-DAY ACTION DATE: 08/18/88

DOCUMENTATION

MCR: 88-067 MRI: PDC: 83-39 MR: MMR: WITHDRAWAL REQ.: MMR: 2284 TASK: 82-015

DESCRIPTION

TYPE: FLG SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: CATEGORY: AF #N SCHEDULE: ASME CLASS: 2 GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: AUGMENTED PFF-64S LOCATION: P [N-WAREHOUSE, P-PLANT] Q: [Y/N] SAFETY RELATED: M [Y/N]
ACCESSORY: Y [Y/N] DRAWING NUMBER: 0210

CHAIN OF PURCHASE

VENDOR: B2M P.O.1: 1/1 VENDOR2: STANDARD PIPE DATE 1: 1/1 DATE 2: 1/1
VENDOR: BECTEL P.O.3: F818310 DATE 3: 01/04/83 VENDOR4: P.O.2: 0260 DATE 4: 1/1

MATERIAL CERTIFICATION

CMT# DATE: 12/09/81 NUMBER: 621175 SPECIFICATION: SA105
CAR: 0.200 MAN: 0.910 SUL: 0.070 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 02,600 YIELD: ELONGATION: 12.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLS=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WH=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 25.06 LAST UPDATED: 08/29/88 DATE IDENTIFIED: 07/17/88 30-DAY ACTION DATE: 08/18/88

DOCUMENTATION

MCR: 88-067 MRI: PDC: 83-37 MR: MRIR: WITHDRAWAL RED.: MRR: 2584 TASK: 82-0119

DESCRIPTION

TYPE: FLG SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: RF MN CATEGORY: ASME CLASS: 2 GRADE:
SYSTEM NO.: 0 SYSTEM DESCRIPTION: AUGMENTED OFF-GAS LOCATION: P (W-WAREHOUSE, P-PLANT) D: (Y/N) SAFETY RELATED: N (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0210

CHAIN OF PURCHASE

VENDOR1: 028 VENDOR2: STANDARD PIPE P.O.2: 0260 DATE 2: 1/1
VENDOR3: RECHTEL VENDOR4: P.O.3: FN:9310 DATE 4: 1/1

MATERIAL CERTIFICATION

CMTR DATE: 12/09/83 HEAT NUMBER: 6X11375 SPECIFICATION: S4105
CAR: 6.200 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 00,000 YIELD: 51,000 ELONGATION: 37.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.020 NIC: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.:

REMARKS

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, TAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, OQT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 26.01 LAST UPDATED: 07/25/88 DATE IDENTIFIED: 07/20/88 30-DAY ACTION DATE: 08/19/88

DOCUMENTATION

MCR: 88-068 MRF1: POC: 03-28 MR: MR18: WITHDRAWAL REQ.: MRR: 2482 TASK: 07-0.19

DESCRIPTION

TYPE: FL6 SITE (IN.): 20 PRESSURE: 150 HEAT TREATMENT: RF CATEGORY: RF SCHEDULE: ASME CLASS: 2 GRADE:
 SYSTEM NO.: 23 SYSTEM DESCRIPTION: HIGH PRESSURE COOLANT INJECTION SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) C: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR: BECHTEL P.O. 1: 1/1 VENDOR2: STANDARD PIPE P.O. 2: 1/1
 VENDOR3: BECHTEL P.O. 3: FM19290 VENDOR4: P.O. 4: 1/1

MATERIAL: CERTIFICATION

QWTR DATE: 12/19/83 HEAT NUMBER: 6Z28819 SPECIFICATION: SAS#0
 CAR: 0.360 MAN: 0.980 PHOS: 0.015 SUL: 0.010 NTC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.100
 TENSILE: 74.100 YIELD: 47.700 ELONGATION: 34.0 REDUCTION: 59.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIPS: 0 EQUOTIP AVERAGE:
 HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NTC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

INSULATED

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FL6=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PL6=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, OAT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flare Face, LJ=Lapped Joint, RF=Raised Face, SJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 26-02 LAST UPDATED: 07/25/88 DATE IDENTIFIED: 07/20/88 30-DAY ACTION DATE: 08/19/88

DOCUMENTATION

MCP: 88-668 MRI: 03-26 MR: 03-26 MRR: 2482 WITHDRAWAL REQ.: 02-0 19

DESCRIPTION

TYPE: FLG SIZE (IN.): 20 PRESSURE: 150 HEAT TREATMENT: RF SCHEDULE: ASME CLASS: 2 GRADE: SA350
SYSTEM NO.: 23 SYSTEM DESCRIPTION: HIGH PRESSURE COOLANT INJECTION SYSTEM LOCATION: P (W=WAREHOUSE, P=PLANT) Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: BJM P.O.1: 1/1 VENDOR2: STANDARD PIPE P.O.2: 1/1
VENDOR3: BECHTEL P.O.3: F018790 VENDOR4: 1/1 P.O.4: 1/1

MATERIAL CERTIFICATION

CNTR DATE: 12/19/83 HEAT NUMBER: 6X288/1 SPECIFICATION: SA350
CAR: 0.260 MAN: 0.280 PHOS: 0.015 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.100
TENSILE: 74.100 YIELD: 47.700 ELONGATION: 34.0 REDUCTION: 59.0 HARDNESS: 0

EQUTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUTIP1: 0 EQUTIP2: 0 EQUTIP3: 0 EQUTIP4: 0 EQUTIP5: 0 EQUTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUTIP AVG.: 0

REMARKS

INSULATED

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- 3) ANN=Annealed, NORM=Normalized, OQT=Quench & Temper, TEM=Tempering
- 4) B=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 27.01 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 JO-DAY ACTION DATE: 08/22/88

DOCUMENTATION

NCR: 88-069 MRI: PDC: 87-43 MR: MTR: WITHDRAWAL REQ.: MRR: 20792 TASK: 87.007

DESCRIPTION

TYPE: FLG SIZE (IN.): 1.0 PRESSURE: 600 HEAT TREATMENT: CATEGORY: PF NH SCHEDULE: 80 ASME CLASS: GRADE: SYSTEM NO.: 23 SYSTEM DESCRIPTION: HIGH PRESSURE COOLANT INJECTION SYSTEM LOCATION: P [W-WAREHOUSE, P-PLANT] Q: Y [Y-N] SAFETY RELATED: Y [Y/N] ACCESSIBLE: Y [Y/N] DRAWING NUMBER: K243

CHAIN OF PURCHASE

VENDOR1: P51 VENDOR2: RADHOR P.O.1: / / DATE 1: / / VENDOR3: BECHTEL VENDOR4: P.O.3: F859740 DATE 3: 07/10/87 P.O.2: / / DATE 2: / / P.O.4: / / DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: 07/10/87 HEAT NUMBER: 55112 SPECIFICATION: SA105 CAR: 0.280 MAN: 0.960 PHOS: 0.010 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.230 TENSILE: 83.500 YIELD: 52.000 ELONGATION: 27.0 REDUCTION: 48.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIPS: 0 EQUOTIP AVERAGE: HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

INSULATED
NPCI AUX BOILER 11E-1H

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELP=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QNT=Quench & Temper, TEM=Tempering
- (4) RL=Ring, RW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 27.02 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/83 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

MCP: 88-070 MRL: PDC: 87-43 MR: MRR: 20792 WITHDRAWAL REQ.: MRR: 20792 TASK: 87.087

DESCRIPTION

TYPE: F6 SIZE (IN.): 1 PRESSURE: 600 HEAT TREATMENT: RADIATOR CATEGORY: RF #H SCHEDULE: 160 ASME CLASS: GRADE:
SYSTEM NO.: 13 SYSTEM DESCRIPTION: REACTOR CORE ISOLATION COOLING SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: #245

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: RADIATOR P.O.2: DATE 2: / /
VENDOR3: BECHTEL P.O.3: #59740 DATE 3: 07/10/87 VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 07/10/87 HEAT NUMBER: 6011375 SPECIFICATION: SAI105
CAR: 0.200 MAN: 0.210 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80,600 YIELD: 31,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

INSULATED
ECIC BOX BOILER TIE-IN

- (*) Automatically calculated by the Database. DO NOT ENTER.
- (*) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWG=Swage
- (*) ANN=Annealed, NORM=Normalized, BQT=Quench & Temper, TEM=Tempering
- (*) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RJ=Raised Face, SP=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 27.01 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

MCR: 88-070 MRI: PDC: 07-43 MR: MRR: WITHDRAWAL REQ.: MRR: 20792 TASK: 07.007

DESCRIPTION

TYPE: FLG SIZE (IN.): 3 PRESSURE: 600 HEAT TREATMENT: CATEGORY: RF BL SCHEDULE: ASME CLASS: GRADE: SYSTEM NO.: 1J SYSTEM DESCRIPTION: REACTOR CORE ISOLATION COOLING SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: PSI P.O.1: DATE 1: / / VENDOR2: PADMOR P.O.2: DATE 2: / / VENDOR3: BECHTEL P.O.3: F899740 DATE 3: 07/10/87 VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CMR DATE: 07/10/87 HEAT NUMBER: 6072002 SPECIFICATION: SA105 CAR: 0.260 MAR: 1.220 PHOS: 0.010 SUL: 0.024 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.200 TENSILE: 78.400 YIELD: 51.600 ELONGATION: 31.0 REDUCTION: 55.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE: HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: YIELD: ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

INSULATED
RCIC AUX BOILER TIE-IN

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NORM=Normalized, QNT=Burrch & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SD=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 83-05 DATABASE RECORD

COMPONENT NUMBER: 28.01 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

NCR: 88-071 MRI: PDC: 83-25 MR: MRR: 2583 WITHDRAWAL REQ.: MRR: 2583 TASK: 82-0119

DESCRIPTION

TYPE: FLG SIZE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF # SCHEDULE: 40 ASME CLASS: 2 GRADE:
SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (IN-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: #27-1

CHAIN OF PURCHASE

VENDOR1: RJM P.O.1: DATE 1: / / VENDOR2: STANDARD PIPE P.O.2: DATE 2: / /
VENDOR3: BECNTEL P.O.3: #18280 DATE 3: 01/04/83 VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CONTR DATE: 12/09/83 HEAT NUMBER: 6X28819 SPECIFICATION: SA516
CAR: 0.260 MAN: 0.980 PHOS: 0.015 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.180
TENSILE: 74,100 YIELD: 47,700 ELONGATION: 34.0 REDUCTION: 59.0 HARDNESS: 153

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: EQUOTIP2: EQUOTIP3: EQUOTIP4: EQUOTIP5: EQUOTIP AVERAGE:
HARDNESS: TENSILE:

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: YIELD: ELONGATION: REDUCTION: HARDNESS: EQUOTIP AVG.:

REMARKS

CONTAINMENT PURGE & VENT A05035A

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TFM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
NRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 28.02 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE¹¹¹: 08/20/88

DOCUMENTATION

NCR: 88-071 MRI: PDC: 83-25 MR: MRIR: WITHDRAWAL REQ.: MRR: 2503 TASK: 82-0117

DESCRIPTION

TYPE¹¹²: FL6 SIZE(IN.): 0 PRESSURE: 150 HEAT TREATMENT¹¹³: CATEGORY¹¹⁴: RF WN SCHEDULE: 40 ASME CLASS: 2 GRADE:
SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: M227-1

CHAIN OF PURCHASE

VENDOR1: WJM P.O.1: DATE 1: / / VENDOR2: STANDARD PIPE P.O.2: DATE 2: / /
VENDOR3: BECHTEL P.O.3: FW18280 DATE 3: 01/04/83 VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 12/09/83 HEAT NUMBER: 6X11375 SPECIFICATION: SA105
CAR: 0.280 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80,600 YIELD: 51,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.200 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

CONTAINMENT PURGE & VENT A0503'A

¹¹¹ Automatically calculated by the Database. DO NOT ENTER.

¹¹² FL6=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

¹¹³ ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering

¹¹⁴ BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT I

NRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 28 03 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

MCR: 68-071 MRI: PDC: 03-25 MR: MRIR: WITHDRAWAL REQ.: NRR: 2583 TASK: 02-0 19

DESCRIPTION

TYPE: FLG SITE (IN.): 2 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF W SCHEDULE: 4# ASME CLASS: 2 GRADE: SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (W-WAREHOUSE, P--PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0227-1

CHAIN OF PURCHASE

VENDOR1: MJM P.C.1: DATE 1: / / VENDOR2: STANDARD PIPE P.O.2: DATE 2: / / VENDOR3: BEC-JEL P.O.3: FM18280 DATE 3: 01/04/83 VENDOR4: P.O.4: DATE 4: / /

MATERIAL CERTIFICATION

CONTR DATE: 12/09/83 HEAT NUMBER: 6X11375 SPECIFICATION: SA105 CAR: 0.280 WAK: 0.910 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190 TENSILE: 80,600 YIELD: 51,000 ELONGATION: 22.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / CAR: 0.000 MAR: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

CONTAINMENT PURGE & VENT AM50358

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, FLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WH=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 28.04 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

MCR: 88-071 MRP1: PDC: 03-25 MR: MRP2: WITHDRAWAL REQ.: MRR: 2583 TASK: 82-0119

DESCRIPTION

TYPE: 116 SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF # SCHEDULE: 4# ASME CLASS: 2 GRADE:
 SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (W-WAREHOUSE, P-PLANT) B: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 8277-1

CHAIN OF PURCHASE

VENDOR1: M2M P.O. 1: 1/1 VENDOR2: STANDARD PIPE P.O. 2: 1/1
 VENDOR3: BECHTEL P.O. 3: 01/04/83 VENDOR4: DATE 4: 1/1

MATERIAL CERTIFICATION

QTR DATE: 12/09/83 HEAT NUMBER: 6X11375 SPECIFICATION: SA105
 CAR: 0.200 WMS: 0.910 SML: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.170
 TENSILE: 80.600 YIELD: 51.000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
 HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 WMS: 0.000 SML: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

CONTAINMENT FORGE & WENT 805328

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, Q&T=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, L3=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MPC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 28.05 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

NCR: 88-071 MBI: PDC: 83-25 MR: MBR: WITHDRAWAL REV.: MBR: 2583 TASK: 82-0119

DESCRIPTION

TYPE: 116 SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: CATEGORY: AF # SCHEDULE: 40 ASME CLASS: 2 GRADE:
SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (W-WAREHOUSE, P-PLANT) B: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 8227-1

CHAIN OF PURCHASE

VENDOR1: BJA P.O.1: DATE 1: 1/1 VENDOR2: STANDARD PIPE P.O.2: DATE 2: 1/1
VENDOR3: BECHTEL P.O.3: F818280 DATE 3: 01/04/83 VENDOR4: HARDNESS: DATE 4: 1/1

MATERIAL CERTIFICATION

CNR DATE: 12/09/83 HEAT NUMBER: 6X11373 SPECIFICATION: SA105
CAR: 0.280 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.170
TENSILE: 00,000 YIELD: 51,000 ELONGATION: 37.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

CONTAINMENT PURGE & VENT AP5036A

(1) Automatically calculated by the Database. DO NOT ENTER.

(2) FL=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage

(3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering

(4) BL=Blind, BW=Butt Weld, FF=Flat Face, LI=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT I

MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 23-86 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE (13): 08/20/88

DOCUMENTATION

NCR: 88-071 MBI: _____ POC: RJ-25 MR: _____ MRIR: _____ WITHDRAWAL REQ.: _____ MRR: 2583 TASK: 02-0119

DESCRIPTION

TYPE (12): FLG SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT (3): _____ CATEGORY (4): RF 00 SCHEDULE: 40 ASME CLASS: 2 GRADE: _____
 SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (W-WAREHOUSE, P-PLANT) D: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER: W277-1

CHAIN OF PURCHASE

VENDOR1: RJM P.O.1: _____ DATE 1: 1/1 VENDOR2: STANDARD PIPE P.O.2: 1/1
 VENDOR3: BECHTEL P.O.3: FR18200 DATE 3: 01/04/83 VENDOR4: _____ P.O.4: 1/1

MATERIAL CERTIFICATION

HEAT NUMBER: 6X28619 SPECIFICATION: S4350
 CAR: 0.260 MAN: 0.200 PHOS: 0.015 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.100
 TENSILE: 74,100 YIELD: 47,700 ELONGATION: 34.0 REDUCTION: 59.0 HARDNESS: 153

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: _____
 HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: _____

REMARKS

CONTAINMENT PURGE & VENT APC036A

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CFI=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WW=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 26.07 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 JO-BAY ACTION DATE: 08/20/88

DOCUMENTATION

MCR: 88-071 MRI: POC: 83-25 MR: MRR: WITHDRAWAL REQ.: MRR: 2583 TASK: 82-0119

DESCRIPTION

TYPE: FL6 SIZE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: NONE CATEGORY: RF NH SCHEDULE: 4# ASME CLASS: 2 GRADE:
SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: N27-1

CHAIN OF PURCHASE

VENDOR1: NJM
VENDOR3: BECATEL

P.O.1: P.O.2: DATE 1: / / VENDOR2: STANDARD PIPE P.O.2: / /
P.O.3: FMI8280 P.O.4: DATE 3: 01/04/83 VENDOR4: P.O.4: / /

MATERIAL CERTIFICATION

CNTR DATE: 12/07/83 HEAT NUMBER: 6X11375 SPECIFICATION: SAI05
CAR: 0.280 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80.600 YIELD: 51.000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / /
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

CONTAINMENT PURGE & VENT 08/03/88

- 1) Automatically calculated by the Database. DO NOT EDIT.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- 3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- 4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 28-08 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

NCR: 88-071 M01: PDC: 83-25 M0: MRIR: WITHDRAWAL REQ.: MGR: 2583 TASK: 82-0119

DESCRIPTION

TYPE: FLG SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: AF CATEGORY: AF SCHEDULE: 40 ASME CLASS: 2 GRADE: SA105
 SYSTEM NO.: 0 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (W=WAREHOUSE, P=PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
 ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0227-1

CHAIN OF PURCHASE

VENDOR1: MJM P.O.1: 1/1 VENDOR2: STANDARD PIPE P.O.2: 1/1
 VENDOR3: BECHTEL P.O.3: 01/04/83 VENDOR4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 12/09/83 HEAT NUMBER: 6211375 SPECIFICATION: SA105
 CAR: 0.200 MAN: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.170
 TENSILE: 80,600 YIELD: 51,000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
 HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
 CAR: 0.000 MAN: 0.500 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

CONTAINMENT PURGE & VENT 0050360

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SW6=Swage
- (3) ANN=Annealed, NORM=Normalized, G&T=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT I
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 28-09 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

MCR: 88-071 MBI: 03-25 MRC: 03-25 PDC: 03-25 MRIR: 03-25 MRR: 25-83 WITHDRAWAL REQ.: 03-25 TASK: 82-019

DESCRIPTION

TYPE: FLG SIZE (IN.): 6 PRESSURE: 150 HEAT TREATMENT: 0 CATEGORY: RF SCHEDULE: 40 ASME CLASS: 2 GRADE: 0
SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P [M-WAREHOUSE, P-PLANT] Q: Y [Y/N] SAFETY RELATED: Y [Y/N]
ACCESSIBLE: Y [Y/N] DRAWING NUMBER: 0227-1

CHAIN OF PURCHASE

VENDOR1: BECHTEL P.O.1: 1/1 VENDOR2: STANDARD PIPE P.O.2: 1/1
VENDOR3: BECHTEL P.O.3: FN19280 VENDOR4: 01/04/83 P.O.4: 1/1

MATERIAL CERTIFICATION

CMTR DATE: 12/07/83 HEAT NUMBER: 6X28819 SPECIFICATION: S4350
CAR: 0.260 MAN: 0.980 PHOS: 0.015 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.160
TENSILE: 74,100 YIELD: 47,700 ELONGATION: 34.0 REDUCTION: 59.0 HARDNESS: 153

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

CONTAINMENT PORGE & VENT AB-0420
TIP ROOM (1)

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
- (3) ANN=Annealed, NDRN=Normalized, Q&T=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, MN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 28.10 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION
MCR: 88-071 M-1: 83-25 MGR: MRIR WITHDRAWAL REQ.: 2583 TASK: 82-0119

DESCRIPTION
TYPE: F16 SIZE(IN.): 8 PRESSURE: 150 HEAT TREATMENT: AS CATEGORY: RF IN SCHEDULE: 40 ASME CLASS: 2 GRADE:
SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: W227-1

CHAIN OF PURCHASE
VENDOR1: 838 P.O.1: 1/1 VENDOR2: STANDARD PIPE P.O.2: 1/1
VENDOR3: BECHTEL P.O.3: FW10280 DATE 3: 01/04/83 VENDOR4: DATE 4: 1/1

MATERIAL CERTIFICATION
CNTR DATE: 12/09/83 LEAT NUMBER: 6X11375 SPECIFICATION: S4105
CAR: 0.280 MAN: 0.210 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.100
TENSILE: 80.000 YIELD: 51.000 ELONGATION: 37.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS
CONTAINMENT PURGE & PZNT AP50444
FUEL POOL RX ROOM-EAST

- 11) Automatically calculated by the Database. DO NOT ENTER.
- 12) FL=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWB=Swage
- 13) ANN=Annealed, NORM=Normalized, QNT=Quench & Temper, TEM=Tempering
- 14) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1

MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 28.11 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/27/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

MCR: 88-071 MRF: PDC: 83-25 MR: MTR: WITHDRAWAL REQ.: MRR: 2583 TASK: 02-01.9

DESCRIPTION

TYPE: FLE SIZE(IN.): 0 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF/M SCHEDULE: 60 ASME CLASS: 2 GRADE: SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (W-WAREHOUSE, P-PLANT) R: Y (Y/N) SAFETY RELATED: Y (Y/N) ACCESSIBLE: Y (Y/N) DRAWING NUMBER: K277-1

CHAIN OF PURCHASE

VENDOR1: MJA P.O.1: DATE 1: 1/1 VENDOR2: STANDARD PIPE P.O.2: DATE 2: 1/1 VENDOR3: BECHTEL P.O.3: FM1280 DATE 3: 01/01/83 VENDOR4: P.O.4: DATE 4: 1/1

MATERIAL CERTIFICATION

CMR DATE: 12/07/83 HEAT NUMBER: 6X11375 SPECIFICATION: SA105 CAR: 0.280 NON: 0.910 PHOS: 0.012 SUL: 0.020 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190 TENSILE: 80,000 YIELD: 51,000 ELONGATION: 17.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE: HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1 CAR: 0.000 NON: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000 TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

CONTAINMENT PURGE & VENT M05044A
FUEL POOL RX ROOM-EAST

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLB=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLB=Plug, RED=Reducer, SM6=Swage
- (3) ANN=Annealed, NORM=Normalized, QAT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BU=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SM=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 28.12 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 30-DAY ACTION DATE: 08/20/88

DOCUMENTATION

MCR: 88-071 MBI: PDC: 83-25 MB: MBR: WITHDRAWAL REQ.: MRR: 2583 TASK: 82-0119

DESCRIPTION

TYPE: FLG SIZE (IN.): 0 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF 8H SCHEDULE: 40 ASME CLASS: 2 GRADE:
SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0227-1

CHAIN OF PURCHASE

VENDOR1: MJM P.O. 1: 1/1 VENDOR2: STANDARD PIPE P.O. 2: 1/1
VENDOR3: BECTEL P.O. 3: FN18280 DATE 3: 01/04/83 VENDOR4: P.O. 4: 1/1

MATERIAL CERTIFICATION

CMTR DATE: 12/09/83 HEAT NUMBER: 6211375 SPECIFICATION: SA105
CAR: 0.200 WRM: 0.910 PHOS: 0.020 SUL: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.190
TENSILE: 80.600 YIELD: 51.000 ELONGATION: 32.0 REDUCTION: 61.0 HARDNESS: 0

EQUOTIP TESTING

START DATE: 1/1 DATE COMPLETED: 1/1 EQUOTIP1: 0 EQUOTIP2: 0 EQUOTIP3: 0 EQUOTIP4: 0 EQUOTIP5: 0 EQUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 WRM: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EQUOTIP AVG.: 0

REMARKS

CONTAINMENT PURGE & VENT 135044B
FUEL POOL IN ROOM-EAST

- (1) Automatically calculated by the Database. DO NOT ENTER.
- (2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SMS=Swage
- (3) ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
- (4) BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WM=Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-05 DATABASE RECORD

COMPONENT NUMBER: 28-13 LAST UPDATED: 07/26/88 DATE IDENTIFIED: 07/21/88 JOB-DAY ACTION DATE: 08/20/88

DOCUMENTATION
MCR: 88-071 MRI: PDC: 83-25 MR: MRR: 2583 WITHDRAWAL REQ.: MRR: 2583 TASK: 82-0119

DESCRIPTION
TYPE: FLG SIZE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF IN SCHEDULE: 4# ASME CLASS: 2 GRADE:
SYSTEM NO.: 2 SYSTEM DESCRIPTION: PRIMARY CONTAINMENT ATMOSPHERE CONTROL LOCATION: P (N-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER: 0277-1

CHAIN OF PURCHASE
VENDOR1: M/M DATE 1: 1/1 VENDOR2: STANDARD PIPE P.O.7: 1/1 DATE 2: 1/1
VENDOR3: BECHTEL DATE 3: 01/04/83 VENDOR4: P.O.4: 1/1 DATE 4: 1/1

MATERIAL CERTIFICATION
CTR DATE: 12/07/83 MEAT NUMBER: 6X28819 SPECIFICATION: SA350
CAR: 0.260 MAN: 0.980 PHOS: 0.015 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.180
TENSILE: 74,000 YIELD: 47,000 ELONGATION: 34.0 REDUCTION: 59.0 HARDNESS: 151

EDUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EDUOTIP1: 0 EDUOTIP2: 0 EDUOTIP3: 0 EDUOTIP4: 0 EDUOTIP5: 0 EDUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: 0.000 MAN: 0.000 PHOS: 0.000 SUL: 0.000 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.000
TENSILE: 0 YIELD: 0 ELONGATION: 0.0 REDUCTION: 0.0 HARDNESS: 0 EDUOTIP AVG.:

REMARKS
CONTAINMENT PURGE 3 VENT AB50448
FUEL POOL RX ROOM-EAST

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG-Flange, ELB-Elbow, TEE, CAP, CPL-Coupling, EXP-Expander, FLG-Plug, RED-Reducer, SWG-Swage
- 3) ANN-Annealed, NORM-Normalized, OAT-Quench & Temper, TEM-Tempering
- 4) BL-Blind, BW-Butt Weld, FF-Flat Face, LJ-Lapped Joint, RF-Raised Face, RJ-Ring Joint, SO-Slip On, SM-Socket Weld, TH-Threaded, WN-Welding Neck

ATTACHMENT 1
MRC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 29.41 LAST UPDATED: 07/28/89 DATE IDENTIFIED: 07/22/89 JO-BAY ACTION DATE: 09/21/88

DOCUMENTATION
MCR: 88-872 MRI: PDC: 8J-29 MR: MRIR: WITHDRAWAL REQ.: MGR: 2480 TASK: 82-119

DESCRIPTION
TYPE: FLG SIZE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: CATEGORY: RF SCHEDULE: 40 ASME CLASS: 2 GRADE:
SYSTEM NO.: 1J SYSTEM DESCRIPTION: REACTOR CORE ISOLATION COOLING SYSTEM LOCATION: P (W-WAREHOUSE, P-PLANT) Q: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE
VENDOR1: 8JM P.O.1: DATE 1: 1/1 VENDOR2: STANDARD PIPE P.O.2: 1/1
VENDOR3: BECHTEL P.O.3: FR1830 DATE 3: 12/28/83 VENDOR4: P.O.4: 1/1

MATERIAL CERTIFICATION
MTR DATE: 12/17/81 HEAT NUMBER: 6X28819 SPECIFICATION: SA350
CAR: 0.260 MAR: 0.980 PHOS: 0.015 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.180
TENSILE: 74.100 YIELD: 47.700 ELONGATION: 34.0 REDUCTION: 59.0 HARDNESS: 0

EDUOTIP TESTING
START DATE: 1/1 DATE COMPLETED: 1/1 EDUOTIP1: EDUOTIP2: EDUOTIP3: EDUOTIP4: EDUOTIP5: EDUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING
DATE TO LAB: 1/1 DATE RESULTS RECEIVED: 1/1
CAR: PHOS: SUL: NIC: CHR: MOL: SIL:
TENSILE: 0 YIELD: 0 ELONGATION: 0 REDUCTION: HARDNESS: EDUOTIP AVG.:

REMARKS
FLANGES FOR RECIP TURB. EXH. VALVE 1301-64

111 Automatically calculated by the Database. DO NOT P...
121 FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWG=Swage
131 ANN=Annealed, NORM=Normalized, QT=Quench & Temper, TEM=Tempering
141 BL=Blind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SO=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

ATTACHMENT 1
MPC BULLETIN 88-85 DATABASE RECORD

COMPONENT NUMBER: 29.02 LAST UPDATED: 07/28/88 DATE IDENTIFIED: 07/22/88 30-DAY ACTION DATE: 08/21/88

DOCUMENTATION

NCR: 88-072 MRI: 03-29 POC: MR MR19: MR19 WITHDRAWAL REQ.: MRR: 2480 TASK: 82-119

DESCRIPTION

TYPE: FLG SITE (IN.): 8 PRESSURE: 150 HEAT TREATMENT: 3 CATEGORY: RF IN SCHEDULE: 40 ASME CLASS: 2 GRADE:
SYSTEM NO.: 13 SYSTEM DESCRIPTION: REACTOR CORE ISOLATION COOLING SYSTEM LOCATION: P (W-WAREHOUSE, P-PIANT) 0: Y (Y/N) SAFETY RELATED: Y (Y/N)
ACCESSIBLE: Y (Y/N) DRAWING NUMBER:

CHAIN OF PURCHASE

VENDOR1: BJM P.O.1: / / VENDOR2: STANDARD PIPE P.O.2: / / DATE 2: / /
VENDOR3: BECCTEL P.O.3: F18330 DATE 3: 12/28/83 VENDOR4: P.O.4: / / DATE 4: / /

MATERIAL CERTIFICATION

CNTR DATE: 12/12/83 HEAT NUMBER: 6X28819 SPECIFICATION: S4350
CAR: 0.260 MAN: 0.980 PHOS: 0.015 SUL: 0.010 NIC: 0.000 CHR: 0.000 MOL: 0.000 SIL: 0.100
TENSILE: 74.100 YIELD: 47.700 ELONGATION: 34.0 REDUCTION: 59.0 HARDNESS: 0

EDUOTIP TESTING

START DATE: / / DATE COMPLETED: / / EDUOTIP1: EDUOTIP2: EDUOTIP3: EDUOTIP4: EDUOTIP5: EDUOTIP AVERAGE:
HARDNESS: 0 TENSILE: 0

LAB TESTING

DATE TO LAB: / / DATE RESULTS RECEIVED: / / M3N: PHOS: SUL: NIC: CHR: MOL: SIL:
CAR: 0 YIELD: 0 ELONGATION: 0 REDUCTION: 0 HARDNESS: 0 EDUOTIP AVE.:

REMARKS

FLANGES FOR ACIC TURB. EXH. VALVE 13M1-64

- 1) Automatically calculated by the Database. DO NOT ENTER.
- 2) FLG=Flange, ELB=Elbow, TEE, CAP, CPL=Coupling, EXP=Expander, PLG=Plug, RED=Reducer, SWB=Swage
- 3) ANN=Annealed, NORM=Normalized, QBT=Quench & Temper, TEM=Tempering
- 4) EL=Elind, BW=Butt Weld, FF=Flat Face, LJ=Lapped Joint, RF=Raised Face, RJ=Ring Joint, SB=Slip On, SW=Socket Weld, TH=Threaded, WN=Welding Neck

Attachment 2
(13 Pages)
Hardness Testing of Flanges and Fittings
Using the Equotip Hardness Tester

Temporary Procedure Number TP88-39

Rev. 1

BOSTON EDISON

PILGRIM NUCLEAR POWER STATION

Temporary Procedure Number TP88-39

HARDNESS TESTING OF FLANGES AND FITTINGS
USING THE EQUOTIP HARDNESS TESTER

List of Effective Pages

TP88-39-1
TP88-39-2
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Attachments

TP88-39A-1
TP88-39B-1
TP88-39C-1
TP88-39D-1
TP88-39E-1

FOR INFORMATION
ONLY

Approved: _____

Plant Manager

Date

Expiration Date: _____

7/8/90

1.0 PURPOSE

To provide a procedure for hardness testing of loose and installed potentially nonconforming flanges and fittings in response to NRC Bulletin 88-05.

2.0 DISCUSSION

Installed flanges and fittings identified under NRC Bulletin 88-05 as being potentially nonconforming must be hardness tested for within 30 days of identification. The Electric Power Research Institute (EPRI) recommends the EQUOTIP hardness tester. Tensile strength will be predicted from hardness test results by NED using ASTM standard A-370.

3.0 REFERENCES

- 3.1 Operating instructions for EQUOTIP hardness tester
- 3.2 Maintenance Request (MR); PNPS procedures 1.5.3/1.5.7
- 3.3 NUMARC "Guidelines for Hardness Testing in Response to NRC Bulletin 88-05"

4.0 EQUIPMENT

- 4.1 EQUOTIP portable hardness tester with Model D impact device.
- 4.2 Standard calibration block (supplied with hardness tester).
- 4.3 Magnetic field strength detector (gaussmeter), supplied by EQUOTIP.
- 4.4 Calibrated surface pyrometer or thermometer.
- 4.5 Hand grinder with 60,120 and 150 or 180 grit flapper wheels or abrasive discs.

5.0 PREREQUISITES

- 5.1 The operator shall be trained in the use of the EQUOTIP tester. Training shall consist of one half hour of oral instruction and reading on the use of the EQUOTIP tester. The operator shall demonstrate proficiency by performing at least 5 hardness tests (impacts) on a sample flange or fitting per this procedure. The range between the highest and lowest of 5 impact "L" values shall not be more than 10 "L" units.
- 5.2 A record of the training of each operator and training test results shall be placed in the QC Training file.
- 5.3 A Maintenance Request is required to perform this procedure on installed components.
- 5.4 A Radiation Work Permit may be required to perform this procedure.

6.0 PROCEDURE

6.1 Surface Preparation

- 6.1.1 The portion of the surface selected for hardness testing shall be a true representation of the material of the test piece. It shall be free of scale, rust, paint, oil, grease, or other foreign material.
- 6.1.2 The surface shall be smooth, finely ground and approximately 2 - 3 square inches in area. Proper, surface conditioning shall be obtained by abrading the surface evenly in one direction with a small hand grinder using a 60 grit flapper wheel or disc. The surface is then abraded in a direction 90 degrees from the original direction using a 120 grit abrasive. Total metal removed shall be approximately 1/32". It may be necessary to remove more material to obtain consistent readings.
- 6.1.3 Care shall be taken that the surface is free of gouges or tool marks that may affect hardness.
- 6.1.4 For flanges mounted in horizontal piping lines, the prepared surface shall be at the 12 o'clock position on the outer ring, if possible. Otherwise, the prepared surface shall be 45, 90, 135 or 180 degrees from the 12 o'clock position.

NOTE:

The preferred location of the prepared surface on flanges is on the outer rim (circumferential surface) of the disc. If necessary, the prepared surface may be situated between the bolts.

6.1.5 Precautions

- A. Surface roughness can cause erroneous hardness measurements resulting in lower "L" values.
- B. Broad variations between individuals measurements are an indication of excessive surface roughness.
- 6.1.6 During the surface preparation, caution shall be exercised so as not to remove or obliterate any permanent markings, such as grade or heat numbers on the test piece.

6.2 Calibration of Hardness Tester

- 6.2.1 The hardness tester shall be calibrated against the reference standard test block. The calibration block shall be backed up with a solid heavy support base to avoid inertia errors. The calibration shall be checked with the impact device in the vertical down position.

At least two readings shall be taken to determine the accuracy of the machine prior to start of work or whenever it is suspected that the results are erroneous. Calibration shall be performed once per day as a minimum.

- 6.2.2 Read the hardness value "L" from the reference standard test block and compare it with the reference "L" value. The instrument is functioning properly when each measured "L" value falls within ± 6 "L" of the reference value stamped on the test block.

When deviations exceed ± 12 "L" units from the reference "L" value, the instrument shall not be used and must be repaired. With smaller deviations, the "L" value can be corrected in accordance with the following equation:

| | | | |
|--------|---------------------|---|--|
| | L_k | = | $L_{\text{sample}} \times L_{\text{ref}}/L_{\text{actual}}$ |
| where: | L_k | = | corrected "L" value |
| | L_{sample} | = | read-off "L" value during testing a sample |
| | L_{ref} | = | reference value from standard test block |
| | L_{actual} | = | actual value when carrying out hardness measurements on the test piece |

6.3 Method

- 6.3.1 The materials to be hardness tested shall be fixed in place or supported in a non-yielding rigid support. Samples that are not sufficiently supported can cause hardness values to be on the lower side.

6.3.2 Precautions

- A. Small parts, weighing less than 5kg (11 lbs), shall be placed on a heavy support base. The bottom side of the parts shall be coated with a thin layer of coupling paste and pressed firmly against this heavy support base and rigidly supported.
- B. In case of parts with curved surfaces, the impact tester shall be used with the small support ring at its base. On flat surfaces, the large support ring is used.

6.3.3 The following steps shall be followed for hardness testing:

A. Indicator Device

- Connect the impact device and turn on the instrument. At the digital display window there will then appear 3 zeros and the battery checking indicator will move within the green field.

NOTE:

If the batteries are discharged, then no digital display appears and the indicator will be in the red field. In the event of insufficient power, the digital display automatically extinguishes. Thus, erroneous measurements due to insufficiently charged batteries are impossible.

- After turning on the instrument, wait 5 seconds before carrying out the first test. For all subsequent tests, no waiting time is required.
- The minimum ambient temperature is +5°C (42°F). Whenever the instrument is stored at a temperature below +5°C (42°F), it should be sufficiently warmed-up before it is placed into operation.

B. Impact Device

- Place the impact device upon the test surface. The hand holding the device then rests upon the work piece.
- Depress the charging tube with the other hand until contact is felt and then allow it to return to starting position slowly. The device is now ready for carrying out the hardness test.
- Trigger the impact by exerting light pressure on the release button. The device must be used perpendicular to the test surface, i.e., the support ring must bear snugly against the surface of the work piece.
- Read-off the hardness value "L" from the indicator and record it on the test report. It may be necessary to apply any correction factor (calibration, position and/or temperature factors) as described in Paragraphs 6.2.2, 6.3.3 and 6.5.2 to obtain the correct hardness value. The indicated "L" value automatically clears with the following test impact. The device is now ready for the next hardness test.

C. Precautions

- The impact device tip shall be clean and not contaminated with any grease, oil, metallic dust or dirt. If there are any contaminants on the tip, it shall be cleaned with alcohol and a special brush provided.
- The impact device tip shall be checked with a magnifying glass for cracks. If the tip is damaged, it shall be replaced.
- Do not apply oil or lubricants to any parts of the impact device.
- The surface of the material being tested shall be free of oil or grease. This can cause low hardness values.
- For surface temperatures above 75°F, a temperature correction factor (Attachment C) shall be added to the measured "L" value. Record the temperature correction factor used on Attachment D.
- Avoid surface temperatures above 240°F due to possible melting of the impact device tip.
- Magnetic field strengths greater than 4 Gauss will inhibit the EQUOTIP tester. The indicator shall be rotated at least 180° when measuring magnetic field strength.
- Vibration interferes with the proper functioning of the EQUOTIP tester. If vibration can be felt in the part to be tested, test results will most likely be unacceptable.
- Ambient test temperatures must be between 40° and 125°F.

6.4 Hardness Measurement

- 6.4.1 Each measuring area should be tested by at least 5 impacts. Record the hardness value for each impact. If the range of the 5 hardness values from one area exceeds 10 "L" units, check whether the surface preparation is sufficiently smooth or if the sample yields during impact. Additional grinding may be required with a 150 or 180 grit flapper wheel, followed by retesting with a new set of 5 impacts.
- 6.4.2 If the range of the 5 hardness values is not greater than 10 "L" units, the highest and lowest values shall be discarded. The average of the remaining three values shall be recorded.

- 6.4.3 Indentations (impacts) should be at least 3/16" apart and at least 3/16" from any edge. There shall be only one impact at any one location.
- 6.4.4 Hardness measurements taken on the outer rim surface of flanges shall be taken from the center third of the flange face thickness.

6.5 Evaluation of the Hardness Values

- 6.5.1 The hardness value in "L" units obtained during the test shall be noted and any applicable correction factor will be applied to this value and reported in the test report. The calibration correction factor shall be determined during the calibration process for the EQUCTIP Hardness Tester with the indenter in the vertical down direction. This correction factor will be available with the machine and shall be kept current during each calibration period.
- 6.5.2 Impact Direction - The impact device is calibrated for the vertical impact direction (impact from the top towards the bottom). With other impact directions (45, 90, 135 and 180 degrees from the 12 o'clock position), the position correction factor values for the specific impact direction given in Attachment A shall be subtracted from the hardness values obtained during testing.
- 6.5.3 It is possible to convert the average hardness value "L" into equivalent Rockwell C, Brinell, or Vickers hardness numbers by using applicable conversion tables given in the manufacturer's data. The table for conversion of numbers to Brinell hardness numbers (HB) is contained in Attachment B.

7.0 REPORTING

- 7.1 All data accumulated during the hardness test shall be recorded on the data sheet (Attachment C). Data Sheets will be sent to the OQC Division Manager with copies to NED. Evaluation of test data will be performed by NED.
 - 7.1.1 Date examination performed
 - 7.1.2 Name of the person who conducted the test
 - 7.1.3 Items inspected (component description, manufacturer, heat number or code, location and identification number)
 - 7.1.4 NCR Number
 - 7.1.5 Instrument used
 - 7.1.6 Component surface temperature (*F)

7.1.7 Results of examination including all hardness values with impact device orientations, average hardness values, corrected hardness value, and hardness in HB.

7.1.8 Magnetic field strength (gauss)

7.1.9 Signature of responsible person

8.0 ATTACHMENT

- A. Correction for Other Impact Directions (for Impact Device D)
- B. EQUOTIP - BRINELL Hardness Conversion Table
- C. Temperature Correction Table
- D. EQUOTIP Hardness Data Sheet
- E. Diagram of Preferred Test Location

| 1

CORRECTION FOR OTHER IMPACT DIRECTIONS (FOR IMPACT DEVICE D)

Values To Be Subtracted From EQUOTIP "L" Measurements

| Measured "L" Value | Impact Device Positions | | | |
|-----------------------|-----------------------------|-------------------------|---------------------------|-----------------|
| | Inclined 45° Downward | Horizontal Direction | Inclined 45° Upward | -Vertical Up |
| 200 | 7 | 14 | 23 | 33 |
| 250 | 6 | 13 | 22 | 31 |
| 300 | 6 | 12 | 20 | 29 |
| 350 | 6 | 12 | 19 | 27 |
| 400 | 5 | 11 | 18 | 25 |
| 450 | 5 | 10 | 17 | 24 |
| 500 | 5 | 10 | 16 | 22 |
| 550 | 4 | 9 | 15 | 20 |
| 600 | 4 | 8 | 14 | 19 |
| 650 | 4 | 8 | 13 | 18 |
| 700 | 3 | 7 | 12 | 17 |
| 750 | 3 | 6 | 11 | 16 |
| 800 | 3 | 6 | 10 | 15 |
| 850 | 2 | 5 | 9 | 14 |
| 900 | | | | |

ATTACHMENT B

EQUOTIP - BRINELL HARDNESS CONVERSION TABLE

For Use After All Correction Factors Have Been Applied

| LD | HB | LD | HB | LD | HB |
|-----|-----|-----|-----|-----|-----|
| 300 | 80 | 368 | 117 | 426 | 165 |
| 302 | 81 | 370 | 118 | 438 | 167 |
| 304 | 81 | 372 | 120 | 440 | 168 |
| 306 | 82 | 374 | 121 | 442 | 170 |
| 308 | 83 | 376 | 122 | 444 | 172 |
| 310 | 84 | 378 | 123 | 446 | 173 |
| 312 | 85 | 380 | 125 | 448 | 175 |
| 314 | 86 | 382 | 126 | 450 | 176 |
| 316 | 87 | 384 | 127 | 452 | 178 |
| 318 | 88 | 386 | 129 | 454 | 180 |
| 320 | 90 | 388 | 130 | 456 | 181 |
| 322 | 91 | 390 | 131 | 458 | 183 |
| 324 | 92 | 392 | 133 | 460 | 185 |
| 326 | 93 | 394 | 134 | 462 | 186 |
| 328 | 94 | 396 | 136 | 464 | 188 |
| 330 | 95 | 398 | 137 | 466 | 190 |
| 332 | 96 | 400 | 138 | 468 | 192 |
| 334 | 97 | 402 | 140 | 470 | 193 |
| 336 | 98 | 404 | 141 | 472 | 195 |
| 338 | 99 | 406 | 143 | 474 | 197 |
| 340 | 100 | 408 | 144 | 476 | 199 |
| 342 | 101 | 410 | 145 | 478 | 200 |
| 344 | 103 | 412 | 147 | 480 | 202 |
| 346 | 104 | 414 | 148 | 482 | 204 |
| 348 | 105 | 416 | 150 | 484 | 206 |
| 350 | 106 | 418 | 151 | 486 | 208 |
| 352 | 107 | 420 | 153 | 488 | 209 |
| 354 | 108 | 422 | 154 | 490 | 211 |
| 356 | 110 | 424 | 156 | 492 | 212 |
| 358 | 111 | 426 | 157 | 494 | 215 |
| 360 | 112 | 428 | 159 | 496 | 217 |
| 362 | 113 | 430 | 160 | 498 | 219 |
| 364 | 115 | 432 | 162 | 500 | 221 |
| 366 | 116 | 434 | 164 | | |

Accuracy: From 80 to 138 HB : ± 10 HB
 From 138 to 221 HB : ± 13 HB

ATTACHMENT C

TEMPERATURE CORRECTION TABLE

Values to be added to EQUOTIP "L" Measurements

| Measured Temperature (F) | Add Temperature Correction (L) |
|--------------------------|-----------------------------------|
| 75 | 0 |
| 100 | 8 |
| 125 | 16 |
| 150 | 22 |
| 175 | 28 |
| 200 | 33 |
| 225 | 38 |
| 250 | 42 |
| 275 | 46 |
| 300 | 49 |
| 325 | 52 |
| 350 | 54 |
| 375 | 56 |
| 400 | 58 |
| 425 | 60 |
| 450 | 62 |
| 475 | 64 |
| 500 | 66 |
| 525 | 68 |
| 550 | 70 |
| 575 | 72 |
| 600 | 74 |

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ATTACHMENT D

EQUOTIP HARDNESS DATA SHEET

Date: _____

NCR# _____

Name of Operator _____

Inspected Item _____

Description: _____

Location: _____

Component Identification No.: _____

Manufacturer: _____

Heat Code: _____

Instrument Used (Serial Number): _____

Component Surface Temp.: _____ °F

Component Magnetic Field Strength: _____ Gauss

Hardness Results

| Reading No. | Impact Position | Hardness in "L" Units | Position Correction Factor (Subtract) | Temp. Correction (Add) + | Calibration Correction Factor (If any) x | Corrected Hardness in "L" Units | Brinell Hardness (HB) |
|-------------|-----------------|-----------------------|---------------------------------------|--------------------------|--|---------------------------------|-----------------------|
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

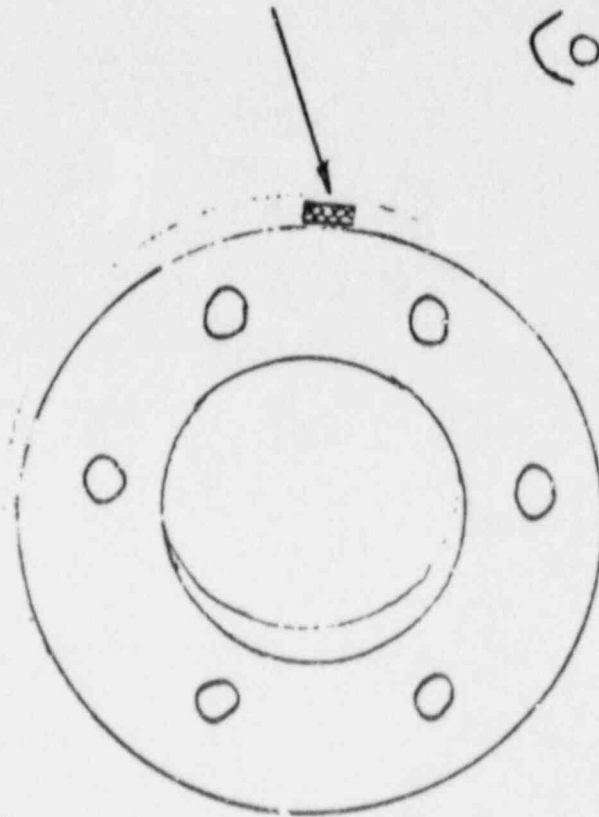
Signature of Operator _____

Witness Signature _____

...

PREFERRED TEST LOCATION

(0°, 1200 clock position)



...