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SUBJECT: Forwards "Turkey Point Nuclear Power Plant Third Ten-Yr
 ISI Interval IST Program for Pumps & Valves."

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10 CFR 50.55a

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Inservice Testing Program

This letter submits to the Nuclear Regulatory Commission (NRC) revision 0 of the Third Ten-Year Inservice Testing (IST) Program for Turkey Point Units 3 and 4.

Attachment 1 is a status and abstract of the relief requests associated with the program. Attachment 2 is revision 0 of the Third Ten-Year IST Program for Turkey Point. Attachment 3 is a current set of drawings to assist in pump and valve identification. The program incorporates seven relief requests, of which five are reliefs from pump testing requirements and two are reliefs from valve testing requirements. One new relief request (PR-5) is being submitted for NRC review and approval. FPL requests that the NRC's review and approval of the new relief request be completed by August 31, 1994. One additional relief request (PR-3) has received prior NRC approval, however it has been revised to clarify that the pump discharge pressure gauge is included within the scope of the relief request. As this revision is only a clarification, with no change to the alternate testing being performed, no NRC review is requested and the relief continues to be implemented. The remaining relief requests (reliefs which have received previous NRC approval) have been revised to reference the appropriate version of the ASME code and the latest plant drawings. No additional NRC review is being asked for these relief requests and the reliefs continue to be implemented.

If you should have any questions, please contact us.

Very truly yours,

T. F. Plunkett
Vice President
Turkey Point Nuclear

attachments

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC (w/o att.)
Thomas P. Johnson, Senior Resident Inspector, USNRC, Turkey Point Plant (w/o att.)

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FLORIDA POWER and LIGHT COMPANY
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UNIT NOS. 3&4
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THIRD TEN-YEAR INSERVICE INSPECTION INTERVAL
INSERVICE TESTING PROGRAM

FOR

PUMPS AND VALVES

NRC DOCKET NUMBERS: 50-250 / 50-251

COMMERCIAL SERVICE DATE: PTN-3 DECEMBER 14, 1972

COMMERCIAL SERVICE DATE: PTN-4 SEPTEMBER 14, 1973

TURKEY POINT PLANT REVIEWS AND APPROVALS:

PREPARED BY: [Signature]
PTN PLANT IST COORDINATOR

DATE: 11-18-93

APPROVED BY: [Signature]
PTN SYSTEM PERFORMANCE SUPERVISOR

DATE: 11-18-93

APPROVED BY: [Signature]
PTN TECHNICAL DEPT. MANAGER

DATE: 12-28-93

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10/28/93

RECORD OF REVISIONS

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0	TURKEY POINT PLANT, UNIT 3&4 THIRD TEN YEAR PUMP AND VALVE TESTING PROGRAM	10-28-93



INSERVICE TESTING (IST) PROGRAM PLAN
TURKEY POINT UNITS 3&4

1.0 INTRODUCTION

This document outlines the Turkey Point Plant, Units 3 and 4, Inservice Test (IST) Program for the third 10-year interval based on the requirements of Section XI of the ASME Boiler and Pressure Vessel Code, 1989 Edition. Subsections IWP and IWV thereof refer to implementing ASME/ANSI OM-6 and OM-10, respectively. In accordance with Title 10, Part 50 of the Code of Federal Regulations, paragraph 50.55a, the Turkey Point IST Program is based on the applicable requirements set forth in ASME/ANSI OM-1987, Operation and Maintenance of Nuclear Power Plants, including ASME/ANSI OMa-1988 Addenda.

Revision 0 of the third 10-year IST Program will be in effect through the end of the third 120-month (10-year) interval unless changed and reissued for reasons other than the routine update required at the start of the fourth interval per 10 CFR 50.55a(g). The third inspection intervals are defined as follows:

	<u>Begins</u>	<u>Ends</u>
Unit 3	February 22, 1994	February 21, 2004
Unit 4	April 15, 1994	April 14, 2004

2.0 APPLICABLE DOCUMENTS

This Program Plan was developed per the requirements and guidance provided by the following documents:

- 2.1 Title 10, Code of Federal Regulations, Part 50.55a.
- 2.2 NRC Regulatory Guides - Division 1
- 2.3 Standard Review Plan 3.9.6, Inservice Testing of Pumps and Valves.
- 2.4 Final Safety Analysis Report, Turkey Point Units 3 & 4
- 2.5 Turkey Point Plant Units 3&4 Technical Specifications
- 2.6 ASME Boiler and Pressure Vessel Code, Section XI, 1989 Edition
- 2.7 NRC Generic Letter 89-04, Guidance on Developing Acceptable Inservice Testing Programs.
- 2.8 ASME/ANSI OM-1987, Operation and Maintenance of Nuclear Power Plants including ASME/ANSI OMa-1988 Addenda.

3.0 PROGRAM DEVELOPMENT

ASME B&PV Code, Section XI (hereby referred to as the 'Code') requires that the owner of each nuclear power plant prepare and submit a plan for testing and inspection of systems and components under the jurisdiction of the Code and in compliance with Title 10, Part 50 of the Code of Federal Regulations (Para. 50.55.a). With respect to the elements of that plan related to the testing of pumps and valves, Section XI, Subsections IWP and IWV direct each licensee to comply with the applicable portions of ASME/ANSI OM-6 and OM-10. In response to this, the NRC directed that pump and valve testing should be performed in accordance with Parts 6 and 10 of ASME/ANSI OM-1987 with OMA-1988 Addenda. Specifically, Part 1 of OM-1987 and Paragraphs 1.1 of OMA-1988 Addenda, Parts 6 and 10, establish the Program scope with the provision that the rules apply only to ISI Class 1,2, and 3 as stated by the NRC via Federal Register, Vol. 56, No. 21 dated January 31, 1991.

The IST Program must include those pumps and valves that perform a specific function in shutting down a reactor to the cold shutdown condition, in maintaining the cold shutdown condition, or in mitigating the consequences of an accident. During development of the Program, each of the systems within the ISI Class 1,2, or 3 boundaries were evaluated taking into account the function of each component and the need for its operability as it relates to the scope of applicability as defined in ASME Section XI Code. The following guidelines are set forth for evaluation of system components (pumps and valves) with respect to their inclusion in the Turkey Point IST Program and to what extent testing will be performed.

- 3.1 Components performing redundant functions are included in the testing program only if, in the process of analysis or licensing justification, they are relied upon to be operable during the design basis accident (ie. containment isolation valves, redundant pumps, valves with alternate power supplies, etc.)
- 3.2 Valves installed primarily for the purpose of providing convenient operational flexibility are not included in the Program.
- 3.3 For pumps and valves that are not categorized as ISI Class 1,2, or 3 but included in the IST Program, specific relief from Code requirements is not required as stated therein 10CFR50.55a(f)(5)(iv).

- 3.4 Valves that are actuated as a result of a safety system automatic response are included in the Program to the extent that the testing shall verify valve operational readiness as defined by the Code.
- 3.5 Valves whose sole function is to provide system or component redundancy related to failure of passive components are not included if a set of all of the active components (pumps and valves) needed to fulfill the specified system (train) function are tested - i.e. double or unrelated simultaneous failures need not be assumed.
- 3.6 System safety/relief valves are included to the extent that a valve protects a system (or portions thereof) that performs a required function in shutting down the reactor to the cold shutdown condition, maintaining the cold shutdown condition, or mitigating the consequences of an accident.
- 3.7 All valves included in the Turkey Point leakrate testing program complying with 10CFR50, Appendix J are included in the Program as Category A valves. (Reference 2.7, Position 10)
- 3.8 All valves designated as high-low pressure interface valves (pressure isolation valves) are included in the Program as Category A valves. (Reference 2.7, Position 4)
- 3.9 Pumps and valves whose only safety function is predicated on plant shutdown and recovery from a fire per commitments made as a result of 10CFR50, Appendix R are not included in the IST Program.
- 3.10 All active Category A valves are designated for testing (exercising) to the closed direction.
- 3.11 Valves whose normal position during operation is the position required to perform the designated safety function, where valve movement may be required due to normal plant evolutions or possible repositioning during accident response or recovery operations, are included (ie. the valve cannot be considered passive).
- 3.12 Where an air-operated valve is provided with a simple air-pilot valve, the pilot valve is not specifically included in the Program provided that the testing

performed on the main valve verifies the proper operation of the pilot valve.

3.13 Control valves are specifically excluded from testing provided they are used only for system control (eg. pressure regulating valves). If a control valve must change position to support a safety-related function and it has a fail-safe position, then it is included in the Program.

3.14 Where a valve performs a safety function in both directions (open and closed), exercising in both directions is included. For power-operated valves, stroke time measurements in both directions is required.

Based upon the rules outlined above, all pumps and valves which have been determined to be within the scope of 10 CFR 50.55a and the applicable version of ASME Section XI Code, and their respective testing requirements, have been included in the IST Program.

During the third 10-year interval, it is expected that the scope of the Program will be modified in response to unrelated activities including, but not limited to, plant design changes, changes in operating practices, and changes in accident mitigating procedures or philosophy. To ensure the continued maintenance of the Program, the plant staff has assigned designated engineers who are responsible for revisions to the Program Plan and the respective plant procedures.

4.0 INSERVICE TESTING PROGRAM FOR PUMPS

4.1 Code Compliance

This IST Program for pumps meets the requirements of Part 6 of Reference 2.8 and any interpretations or additional requirements imposed by Reference 2.7. Paragraph and table references in this section refer to specific paragraphs and tables in Reference 2.8, Part 6. Where these requirements have been determined to be impractical, conformance would cause unreasonable hardship without any compensating increase in safety, or an alternative test provides an acceptable level of quality and safety, relief from Code requirements is requested pursuant to the requirements of 10 CFR 50.55a(g)(iii) and Reference 2.7.

4.2 Allowable Ranges of Test Quantities

The allowable ranges for test parameters as specified in Table 3 of Reference 2.8 will be used for all measurements of pressure, flow, and vibrations except as provided for in specific relief requests.

4.3 Testing Intervals

The test frequency for pumps included in the Program will be as set forth in Part 6 of Reference 2.8 and related relief requests. An allowable extension, not to exceed +25 percent of the surveillance interval, may be applied to a test schedule as allowed by the Turkey Point Technical Specifications to provide for operational flexibility.

4.4 Pump Program Tables

Appendices A and B list those pumps included in the IST Program with references to parameters to be measured and applicable requests for relief.

4.5 Relief Requests for Pump Testing

Relief requests PR-1 through PR-5 are initiated per 10CFR50.55a where appropriate.

RELIEF REQUEST NO. PR-1

COMPONENTS:

Boric Acid Transfer Pumps *-P203 A&B

PART 6 REQUIREMENT:

An inservice test shall be conducted with the pump operating at specified test reference conditions. Pressure, flow rate and vibration shall be determined and compared with corresponding reference values. (Paragraph 5.2(d))

BASIS FOR RELIEF:

The normal test loops for these pumps consist of fixed resistance circuits sized to limit flow but with no flow measuring devices installed. Since the system resistance is fixed and can be assumed to be a constant, pump degradation can be monitored by comparing successive measurements of pump differential pressure.

An alternative test circuit is available in which pump flowrate can be measured, however it requires injection of highly concentrated boric acid solution into the reactor coolant system. During plant operation, this is not practical since it would adversely effect reactor power level and create a potential plant transient. If injection were to be performed during cold shutdown periods the result would be excessive boration of the reactor coolant system and associated potential difficulties during the subsequent plant startup. This is especially significant near the end of core life.

ALTERNATE TESTING:

During quarterly testing of these pumps, differential pressure and vibration measurements will be taken utilizing the fixed resistance flowpath and evaluated in accordance with Table 3. At each reactor refueling these pumps will be tested and all appropriate measurements taken in accordance with Paragraph 5.2. This satisfies the requirements of Reference 2.7, Position 9.

RELIEF REQUEST NO. PR-2

COMPONENTS:

Residual Heat Removal (RHR) Pumps *-P210 A&B

PART 6 REQUIREMENT:

The resistance of the system shall be varied until the flowrate equals the reference value. Alternatively, the flowrate may be varied until the differential pressure equals the reference value. (Para. 5.2(b))

BASIS FOR RELIEF:

During quarterly testing of the RHR Pumps, flow is routed through a minimum flow recirculation line leading to the suction of the pump being tested. This recirculation flowpath is capable of passing a flowrate somewhat less than 10 percent of that at the pump design operating point. A flow instrument is installed in this recirculation piping, however there is concern regarding the practice of throttling under minimum flow conditions with the potential for causing pump damage. In addition, hydraulic pump test data at or near a pump's shutoff head provides little information as to the mechanical condition of a pump.

NRC Generic Letter 89-04, Position 9, (Reference 2.7) allows elimination of minimum flow test line flowrate measurements providing inservice tests are performed during cold shutdowns or refueling under full or substantial flow conditions where pump flowrate is recorded and evaluated. The proposed alternate testing is consistent with this philosophy and the intent of this position.

These pumps are standby pumps and little degradation is expected with respect to hydraulic performance during operational periods when the pumps are idle. Thus, the alternate testing will provide adequate monitoring of these pumps with respect to the applicable Code requirements to ensure continued operability and availability for accident mitigation.

RELIEF REQUEST NO. PR-2 (cont.)

ALTERNATE TESTING:

During quarterly testing of the RHR pumps, a fixed-resistance test circuit will be used and pump differential pressure and flowrate will be determined and compared to their respective reference values per Paragraph 5.2(c).

During testing performed at cold shutdown or refueling, pump differential pressure, flowrate, and vibration will be recorded and evaluated per Paragraph 5.2(b). Testing during cold shutdowns will be on a frequency determined by intervals between shutdowns as follows:

For intervals of 3 months or longer - each shutdown.

For intervals of less than 3 months - testing is not required unless 3 months have passed since the last shutdown test.

RELIEF REQUEST NO. PR-3

COMPONENTS:

Residual Heat Removal Pumps *-P210 A&B

PART 6 REQUIREMENT:

The full-scale range of each analog instrument shall be not greater than three times the reference value. (Para. 4.6.1.2(a))

BASIS FOR RELIEF:

The installed suction and discharge pressure gauges of the RHR pumps are sized to accommodate the pressure range of 4 to 600 psig expected under standby and cold shutdown testing conditions (instrument range is 0-600 psig). As a result, the instrument range exceeds the Code requirement since, under some test conditions, the pump suction and/or discharge pressures can be considerably less than 200 psig. or 1/3 times the pressure gauge range.

In this particular case, the specification for the installed gauges is as follows:

Range: Compound gauge: 1st revolution 0-300 psig;
2nd revolution 300-600 psig.

Accuracy: ± 0.25 percent of full scale (± 1.5 psig)

Suction Pressure

Suction pressure measurements are used primarily to derive the pump differential pressure through calculation. The accuracy of the suction pressure measurement normally has little or no effect on the results of this calculation since, generally, the pump discharge pressure exceeds the suction pressure by 2 or 3 orders of magnitude. When determining pump differential pressure (D_p), where typically RHR Pump D_p is approximately 100 psig (discharge and suction pressures approximately 120 and 20 psig, respectively) the maximum effect of suction pressure inaccuracy is ± 1.5 psig, or ± 1.5 percent of the calculated D_p . This compares reasonably with the maximum allowable accuracy (per Code) of the suction pressure gauge of ± 2 percent of 60 psig, or ± 1.2 psig.



RELIEF REQUEST NO. PR-3 (cont.)

BASIS FOR RELIEF (cont.):

Discharge Pressure

Discharge pressure measurements are also used to derive the pump differential pressure through calculation. When determining pump differential pressure (D_p), where typically RHR Pump D_p is approximately 100 psig. (discharge and suction pressures approximately 120 and 20 psig., respectively) the maximum effect of the discharge pressure inaccuracy is ± 1.5 psig, or ± 1.5 percent of the calculated D_p . This is considered to be negligible when compared to the maximum allowable accuracy (per Code) of the discharge pressure gauge of ± 2 percent of 360 psig, or ± 7.2 psig.

Combination

Based on the inaccuracies of the suction and discharge pressure gauges (± 1.5 psig), the largest possible error in the differential pressure calculation is ± 3 psig (assuming a conservative simple arithmetical method). Thus the maximum inaccuracy is approximately three times better (5.4 psig) than the "allowable" combined Code inaccuracy of 8.4 psig.

ALTERNATE TESTING:

When measuring the suction and discharge pressures of the RHR pumps, in lieu of satisfying the specified instrument range requirement of Paragraph 4.6.1.2.(a), the instruments used for measuring pressure will meet the following specifications:

Accuracy: +0.25 percent of Full Scale (or better)

Range: Compound Gauge: 1st revolution 0-300 psig.
 2nd revolution 300-600 psig.
 (or better).

RELIEF REQUEST NO. PR-4

COMPONENTS:

All pumps in the Program

PART 6 REQUIREMENT:

If the presence or absence of liquid in a gage line could produce a difference of more than 0.25% in the indicated value of the measured pressure, means shall be provided to ensure or determine the presence or absence of liquid as required for the static correction used. (Paragraph 4.6.2.1)

BASIS FOR RELIEF:

When this requirement is applied where measured pressures are at relatively low levels, e.g. suction pressure, the 0.25% limit many times results in complicated venting procedures and related health physics risks associated with the disposal of radioactive contaminated water with no commensurate improvement of test reliability.

Normally, the only quantitative use of suction pressure measurements, where significant accuracy is required, is in determining pump differential pressure or head. In most cases the pump discharge pressure exceeds the suction pressure by at least a factor of five (5). This being the case, a .25% error introduced into the suction pressure measurement results in an error of .05% in the differential pressure calculation. This is insignificant in light of the potential 6% error allowance applied to both the suction and discharge pressure instruments (Paragraph 4.6.1.1).

ALTERNATE TESTING:

If the presence or absence of liquid in a gage line used for sensing pump suction pressure could produce a difference of more than 0.25% in the calculated value of the pump differential pressure, means shall be provided to ensure or determine the presence or absence of liquid as required for the static correction used.

RELIEF REQUEST NO. PR-5

COMPONENTS:

Intake Cooling Water Pumps *-P9A thru *-P9C

PART 6 REQUIREMENT:

The frequency response range of the vibration measuring transducers and their readout system shall be from one-third minimum pump shaft rotational speed to at least 1000 Hz.
(Paragraph 4.6.1.6)

BASIS FOR RELIEF:

The speed of the intake cooling water (ICW) pumps is approximately 900 rpm relating to a rotational frequency of 15 Hz. In order to satisfy the requirements of Paragraph 4.6.1.6, a vibration measurement system capable of measuring vibration to a lower limiting frequency of 5 Hz. would be required.

The instruments currently being used at Turkey Point have a lower frequency limit of 350 CPM or 5.8 Hz. This instrumentation is "state-of-the-art" industrial grade, high quality equipment. Satisfying the Code requirements with respect to frequency response would require the unnecessary procurement of new and more sophisticated equipment beyond that intended by the Code.

Monitoring lower frequencies (less than rotational speed) is performed primarily for the purpose of detecting oil whirl in the pump bearings. Other conditions that could result in low frequency vibration (less than shaft speed) are included in the general category of mechanical "rub" which is not considered to be significant from the aspect of pump degradation.

RELIEF REQUEST NO. PR-5 (cont.)

BASIS FOR RELIEF (cont.):

The use of the existing instrumentation as specified by the alternate testing will adequately provide for monitoring pump condition for the following reasons:

- a) For vertical shaft equipment rotating at these speeds oil whirl is an unlikely phenomenon; and
- b) If oil whirl were to occur, it would be manifested at a frequency equal to one-half of the rotational frequency, or, in this case, approximately 7.5 Hz., which is well within the range of the proposed instrumentation.

Vibration measurements taken on these pumps with instruments capable of monitoring frequencies to 5.8 Hz. are adequate for assessing the operational readiness of these pumps as required by the Code.

ALTERNATE TESTING:

The instruments used for measuring vibration on the ICW pumps will have a frequency response range that extends to a lower limiting frequency of 6 Hz. or less.

5.0 INSERVICE TESTING PROGRAM FOR VALVES

5.1 Code Compliance

This IST Program for valves meets the requirements of Reference 2.8, Parts 1 and 10 and any interpretations or additional requirements imposed by Reference 2.7. Paragraph and table references in this section refer to specific paragraphs and tables in Reference 2.8, Part 10. Where these requirements have been determined to be impractical, conformance would cause unreasonable hardship without any compensating increase in safety, or an alternative test provides an acceptable level of quality and safety, relief from Code requirements is requested pursuant to the requirements of 10 CFR 50.55a(g)(iii) and Reference 2.7.

5.2 Stroke Time Acceptance Criteria

When required, the acceptance criteria for the stroke times of power-operated valves will be as set forth in References 2.7 and 2.8.

5.3 Check Valve Testing

Where required, full-stroke exercising of check valves to the open position using system flow requires that a test be performed whereby the predicted full accident condition flowrate through the valve be verified and measured or full stroke of the obturator is verified by appropriate non-obtrusive methods. Any deviation to this requirement must satisfy the requirements of Reference 2.7, Position 1.

5.4 Testing Intervals

The test frequency for valves included in the Program will be as set forth in Parts 1 and 10 of Reference 2.8, and related relief requests. An allowable extension, not to exceed +25 percent of the surveillance interval, may be applied to the test schedule as allowed by the Turkey Point Technical Specifications to provide for operational flexibility.

5.5 Valve Program Tables

Appendices C and D list those valves included in the IST Program with references to required testing, respective test intervals, and requests for relief.

5.6 Deferred Testing

Where quarterly testing of valves is impractical or otherwise undesirable, testing may be deferred and performed during cold shutdown or refueling periods as permitted by Paragraphs 4.2.1.2 and 4.3.2.2.

It should be noted that there are two conditions of cold shutdown identified in the program tables (Appendices C and D). For the purpose of this requirement, the term 'cold shutdown' refers to the respective condition as noted in the tables. The program tables identify those valves to which deferred testing applies. Justification for such testing (arranged by system) follows:

5.6.1 COLD SHUTDOWN TESTING JUSTIFICATION

Component Cooling - (5613(4)-M-3030-5(4))

MOV-3-0626, MOV-3-0716 A&B and MOV-3-0730

MOV-4-0626, MOV-4-0716 A&B and MOV-4-0730

Component Cooling Water Supply/Return Isolation Valves

These valves are required to be open to ensure continued cooling of reactor coolant pump auxiliary components including the controlled seal leakage system, the pump seals, and the main drive motors. Closing these valves during pump operation could result in degradation of the RCP seals and motors, eventually resulting in potential RCP damage and subsequent plant shutdown.

MOV-3-1417 and MOV-3-1418

MOV-4-1417 and MOV-4-1418

Component Cooling Cont. Supply/Return Isolation Valves

These valves provide normal cooling to the normal containment coolers, control rod drive mechanism coolers, and the primary shield cooling coils. Exercising any of these valves during plant operation at power could cause overheating of the associated components. Should any one of these valves fail to reopen after closure serious damage to equipment could occur necessitating an immediate plant shutdown and cooldown.

3-0738
4-0738

Excess Letdown Heat Exchanger CCW Supply Check Valves

These valves are simple check valves located inside the containment building with no external or remote position indication; thus the only practical method of determining disc position is via a backflow or backleakage test. During the performance of such a test, a considerable length of piping (and potentially the heat exchanger) is drained. Since the CCW water is treated with a chemical corrosion inhibitor, this would create a significant waste disposal problem, whereby performance of this test on a quarterly basis would prove to be an unwarranted burden on the plant staff.

Reactor Coolant (5613(4)-M-3041-2)

PCV-3-0455C and PCV-3-0456
PCV-4-0455C and PCV-4-0456
Power-Operated Relief Valves

Exercising these valves at power has the potential for causing seat damage that could result in unacceptable RCS leakage. Consequently, this could necessitate isolation of the affected PORV(s).

SV-3-6318 A&B, SV-3-6611 and SV-3-6612
SV-4-6318 A&B, SV-4-6611 and SV-4-6612
Reactor Coolant System Vents

These valves are administratively controlled in the key-locked closed position to prevent inadvertent operation. Since these are Class 1 isolation valves for the reactor coolant system, failure of a valve to close or leakage following closure could result in a loss of coolant in excess of the limits imposed by the Plant Technical Specifications. Furthermore, failure of the valve to indicate a return to the fully closed position following exercising, could likely result in a containment entry at power or a plant shutdown.

Chemical & Volume Control - (5613(4)-M-3047-1)

CV-3-0204

CV-4-0204

Letdown Line Outboard Isolation Valves

Closing these valves during operation would result in undesirable pressurizer level or CVCS system transients with the potential for a plant trip. If a valve failed to reopen, then an expedited plant shutdown would be required.

Chemical & Volume Control - (5613(4)-M-3047-2)

3-0357

4-0357

RWST Discharge Valves

Exercising these check valves during operation would require injection of RWST borated water into the reactor coolant system. This would, in turn, result in boration of the reactor coolant system with an adverse reaction in reactor power and the potential of a power transient.

HCV-3-0121

HCV-4-0121

Charging Line Flow Control Valves

These valves provide the primary flow path to the RCS via the Charging Pumps. Measuring valve opening stroke time would first necessitate valve closure. Closing these valves during operation could result in oscillations in RCP seal injection flow and undesirable pressurizer level transients with the potential for a plant trip.

LCV-3-0115B

LCV-4-0115B

RWST Outlet Valves

Opening these valves during operation would result in injection of RWST borated water into the reactor coolant system. This would, in turn, result in boration of the reactor coolant system with an adverse reaction in reactor power and the potential for a power transient.

100



LCV-3-0115C

LCV-4-0115C

Volume Control Tank Outlet Valves

Closing these valves during operation would necessitate configuring the Charging Pump suction from the VCT to the RWST in order to maintain charging flow. Injection of RWST borated water into the RCS would result in overboration with an adverse reaction in reactor power level and a potential for a reactor power transient.

Chemical & Volume Control (5613(4)-M-3047-3)

MOV-3-0381 and MOV-3-6386

MOV-4-0381 and MOV-4-6386

RCP Seal Water Return Isolation Valves

Exercising these valves to the closed position when the reactor coolant pumps (RCP's) are in operation would interrupt flow from the RCP seals and may result in damage to the pumps' seals.

Residual Heat Removal (5613(4)-M-3050-1)

3-0753 A&B

4-0753 A&B

Residual Heat Removal (RHR) Pump Discharge Check Valves

The only flowpath available for full-flow exercising these valves to the open position requires pumping from each RHR pump to the reactor coolant system. The residual heat removal system is designed and interlocked so as to make it impossible to pump to the reactor coolant system at elevated pressures. Note that these valves will be partial-stroke exercised open on a quarterly basis via the minimum flow test lines.

MOV-3-0750 and MOV-3-0751

MOV-4-0750 and MOV-4-0751

RHR Supply From the Reactor Coolant System Isolation Valves

These valves are provided with electrical interlocks that prevent opening when any one of the following conditions exists (in the corresponding unit):

- * Reactor coolant system pressure exceeds 525 psig;
- * MOV-*-862 A or B is open; or
- * MOV-*-863 A or B is open.

This precludes exercising these valves in any other plant condition than cold shutdown.

MOV-3-0862 A&B
MOV-4-0862 A&B
RHR Pump Suction Isolation Valves

Exercising and failure of either of these valves in the closed position during testing will isolate both unit's residual heat removal pumps from the respective refueling water storage tank rendering them inoperable and losing all capability of low-pressure safety injection.

MOV-3-0863 A&B
MOV-4-0863 A&B
Safety Injection Pump Recirculation Phase Suction Stop Valves

Failure of either of these valves in the open position during testing will open a recirculation path from the discharge of the RHR heat exchangers to the RWST or suction of the RHR pumps. In the event of a safety injection signal, this would result in diverting flow from the injection flowpath and thus adversely impact the effectiveness of the LP safety injection system function.

Containment Purge System (5613(4)-M-3053-1)

POV-3-2600 and POV-3-2602
POV-4-2600 and POV-4-2602
Containment Bldg. Purge Supply/Exhaust Otbd. Isolation Valves

Due to the history of these valves with respect to operational-related seat leakage, the plant staff has imposed restrictions on their operation whereby unnecessary cycling of the valves is to be avoided and additional leaktests are performed based on cycling frequency. Thus, it is undesirable to cycle these valves more often than is absolutely necessary. In addition, typically these valves are closed (their safety-related position) during plant operation and are usually opened only for containment ventilation during shutdown periods.

POV-3-2601 and POV-3-2603
POV-4-2601 and POV-4-2603
Containment Bldg. Purge Supply/Exhaust Inbd. Isolation
Valves

Due to the history of these valves with respect to operational-related seat leakage, the plant staff has imposed restrictions on their operation whereby unnecessary cycling of the valves is to be avoided and additional leaktests are performed based on cycling frequency. Thus, it is undesirable to cycle these valves more often than is absolutely necessary. In addition, typically these valves are closed (their safety-related position) during plant operation and are usually opened only for containment ventilation during shutdown periods.

Safety Injection (5613(4)-M-3062-1)

MOV-0878 A&B
SIS Pump Discharge Unit Cross-Tie

The Turkey Point plant design takes credit for the added redundancy of the shared safety injection systems and the capability of maintaining four (4) pumps capable of taking suction from either refueling water storage tank. The plant Technical Specifications require three of the four pumps to be operable during single unit power operation, and all four pumps to be operable during dual unit power operation, when Tav_g is greater than 380 deg.-F. Failure of either one of these valves to reopen while testing would reduce the capability of the safety injection system to respond to a LOCA in the operating unit(s) and place the plants in a 72 hour LCO action statement.

MOV-3-0856 A&B
MOV-4-0856 A&B
Minimum Flow Line Isolation Valves

Exercising or failure of either of these valves in the closed position during testing will prohibit flow through the minimum flow recirculation lines for the associated safety injection and containment spray pumps. Due to the probability of damage should these pumps be started and operated in this condition (no flow), exercising of these valves will only be performed during cold shutdown periods when these pumps are not required to be operable.

MOV-3-864 A&B
MOV-4-864 A&B
RWST Outlet Isolation Valves

Failure of these valves in the closed position isolates the associated RWST rendering the associated safety injection and containment spray systems inoperable. Thus, closing any of these valves while the associated unit is not in a cold shutdown or refueling mode is considered imprudent.

MOV-3-866 A&B
MOV-4-866 A&B
Hot Leg Safety Injection (SI) Isolation Valves

Opening either of these valves while the RCS is at operating pressure subjects the SI system to a situation where the only isolation between the RCS and SI systems is established by a single check valve. Because of this, opening these motor-operated valves while the RCS is at pressures above 600 psig is considered to be imprudent.

Safety Injection (5613/4-M-3064-1)

3-0876A
4-0876A
Low-head Safety Injection/RHR Injection Check Valves

The only flowpath available for full-flow exercising these valves is via the RHR pumps to the reactor coolant system. The residual heat removal system is designed and interlocked to preclude injection into the reactor coolant system at elevated pressures.

Verifying closure of these valves would require establishing a test boundary which could only be obtained via isolation of the RWST, thereby rendering the Low Head Safety Injection System capability inoperative.

3-0876 B&C
4-0876 B&C
Low-Head Safety Injection/RHR Injection Check Valves

Verifying closure of these valves would require establishing a test boundary which could only be obtained via isolation of the RWST, thereby rendering the Low Head Safety Injection System inoperative.

3-0875 A,B,&C
4-0875 A,B,&C
SIS Cold Leg Injection Check Valves

Verifying closure of these valves during power operation would require establishing a test boundary which could only be obtained via isolation or depressurization of the SIS Accumulators, and is therefore considered imprudent.

MOV-3-0744 A&B
MOV-4-0744 A&B
RHR/Low-Head Cold Leg Injection/Isolation Valves

Opening these valves while the RCS is at operating pressure results in a situation where the only isolation between the RCS and RHR systems is established by two check valves. Failure of these check valves to seat could subject the RHR system to pressures above its design pressure. Therefore, opening these motor-operated valves while the RCS is at pressures above 600 psig is considered imprudent.

MOV-3-0865A thru MOV-3-0865C
MOV-4-0865A thru MOV-4-0865C
Safety Injection Accumulator Isolation Valves

During plant operation these valves are required to be locked open to ensure availability of the safety injection accumulators. Intentionally isolating an accumulator during operation is considered to be imprudent. Furthermore, if a valve were to fail in the closed position during testing, a plant shutdown would be required.

Main Steam (5613(4)-M-3072-1)

3-10-0004 thru 3-10-0006
4-10-0004 thru 4-10-0006
Main Steam Non-Return Valves

During plant operation at power, closure of any one of these valves is not practical as it would require isolating a steam generator which would result in a severe transient on the steam and reactor systems and result in a probable plant trip.



CV-3-1606 thru CV-3-1608
CV-4-1606 thru CV-4-1608
Main Steamline Atmospheric Steam Dump Valves

Opening these valves during power operation would result in unacceptable power transients unless the valves are isolated prior to opening. Isolation of one of these lines will reduce the related plant capability to limit a pressure transient and prevent lifting of a safety valve in the event of such an occurrence.

POV-3-2604, POV-3-2605 and POV-3-2606
POV-4-2604, POV-4-2605 and POV-4-2606
Main Steam Isolation Valves

During plant operation at power, closure of any one of these valves is not practical as it would require isolating a steam generator which would result in a severe transient on the steam and reactor systems and result in a plant trip.

Feedwater (5613(4)-M-3074-3)

FCV-3-0478, FCV-3-0488 and FCV-3-0498
FCV-4-0478, FCV-4-0488 and FCV-4-0498
Main Feedwater Flow Control Valves

Testing of these valves to the closed position during plant operation above 20% reactor power would result in severe steam generator level transients and a plant trip.

FCV-3-0479, FCV-3-489 and FCV-3-499
FCV-4-0479, FCV-4-489 and FCV-4-499
Main Feedwater Regulating Valve Bypass Valves

Opening these normally closed valves in order to exercise them to the closed position would result in possible steam generator level transients with the potential of a plant trip. In addition, testing requires installation of electrical jumpers in various safeguard relay racks which provides the potential for an inadvertent plant trip. These valves are normally closed and remain so except for low-power periods associated with startup and shutdown.

Auxiliary Feedwater (5613(4)-M-3075-1)

3-10-0381, 3-10-0382 and 3-10-0383

4-10-0381, 4-10-0382 and 4-10-0383

Aux. Feedwater Steam Supply Non-Return Valves

Verification of closure capability for these valves requires isolation of the respective steam supply line from its associated steam generator and performing a backflow test. Considering the importance of the auxiliary feedwater system and the undesirability of altering system lineups while the plant is operating, it would be imprudent to perform such a test at plant conditions other than cold shutdown.

5.6.2 REFUELING OUTAGE TESTING JUSTIFICATION

Plant Service Air (5610-M-3013-1)

3-40-0205

4-40-0205

Service Air Containment Isolation Check Valves

These are simple check valves with no external means of position indication, thus the only practical means of verifying closure is by performing a leaktest or backflow test. This would require entry into the containment building and thus is impractical to perform during plant operation and would be an unreasonable burden on the plant staff to perform at cold shutdown.

Component Cooling - (5613(4)-M-3030-5(4))

3-0721A,B,&C

4-0721A,B,&C

CCW Supply to RCP Thermal Barrier Cooling Coil

These piston check valves are located inside the containment building with no external or remote position indication; thus the only practical method of verifying closure is via a backflow or backleakage test. Performance of such a test during shutdowns would require draining a considerable length of piping. Since the CCW water is treated with a chemical corrosion inhibitor, this would create a significant waste disposal problem, which would prove to be an unwarranted burden on the plant staff.

Chemical and Volume Control (CVCS) (5610-M-3046-1)

3-0397 A&B

4-0397 C&D

Boric Acid Transfer Pump Discharge Check Valves

During plant operation the boric acid pumps are tested via a recirculation flowpath that is not provided with flow indication. At cold shutdown conditions, the pumps can be aligned to the suction of the charging pumps and thus through an instrumented line. However, testing these valves in this manner would result in the introduction of highly concentrated boric acid solution to the RCS, and thus cause considerable operational difficulty during the ensuing startup. This would be especially true near the end of core life (EOL).



Residual Heat Removal (5613(4)-M-3050-1)

3-2052

4-2052

Containment Spray Suction Relief Discharge Check Valves

These valves are located between the containment recirculation sump and the innermost containment isolation valve located outside containment. The only feasible method of exercising these valves to the open position is to induce flow in the line via an alternate medium such as air or water. Opening the drain connection valve during power operation would constitute a breach of containment integrity and therefore is considered imprudent. The injection of air or water into this system during cold shutdowns could ultimately result airborne contamination or drainage to the containment sump, thereby creating a significant clean-up effort which would prove to be an unwarranted burden on the plant staff.

Nitrogen and Hydrogen (5610-M-3065-1)

3-0518

4-0518

Nitrogen Supply To PRT Containment Isolation Check Valves

These are simple check valves with no external means of position indication, thus the only practical means of verifying closure is by performing a leaktest or backflow test. This would require entry into the containment building and thus is impractical to perform during plant operation and would be an unreasonable burden on the plant staff to perform at cold shutdown.

3-0519

4-0519

Nitrogen Supply To PRT Containment Isolation Check Valves

These valves are normally closed with the valve operating shaft for 3-0519 (stop check) in the open position. The only effective method of verifying closure of these valves is to perform a reverse flow (leak test). This would require entry into the containment building and thus is impractical to perform during plant operation and would be an unreasonable burden on the plant staff to perform at cold shutdown.

Auxiliary Feedwater (5610-M-3075-2)

AFWU-3-0017

AFWU-4-0016

AFW Pump Bearing Cooling Water Return Check Valves

Full-stroke exercising of these valves would require simultaneous operation of all three auxiliary feedwater pumps. Operation in such a mode during a test is not practical nor desirable.

It is unlikely that the 8-18 gpm developed by one operating auxiliary feedwater pump is sufficient to fully open these valves. Thus, the use of non-intrusive methods of verifying full stroke is impractical.

Instrument Air (5613(4)-M-3013-7)

3-40-0336

4-40-0336

Instrument Air Supply Containment Isolation Check Valves

These valves are simple check valves with no external means of position indication, thus the only practical means of verifying closure is by performing a leaktest or backflow test. This would require entry into the containment building and thus is impractical to perform during plant operation and would be an unreasonable burden on the plant staff to perform at cold shutdown.

3-40-340A

4-40-340A

Instrument Air Supply Containment Isolation Check Valves

Stop-check valve 3-40-340A is normally closed with the valve operating shaft in the open direction while 4-40-340A is a simple, normally closed, check valve. The only effective method of verifying closure of either of these valves is to perform a reverse flow (leak test). This would require entry into the containment building and thus is impractical to perform during plant operation and would be an unreasonable burden on the plant staff to perform at cold shutdowns.

Primary Makeup Water (5613(4)-M-3020-2)

3-10-0567

4-10-0567

Primary Makeup Water Containment Isolation Check Valves

These are simple check valves with no external means of position indication, thus the only practical means of verifying closure is by performing a leaktest or backflow test. This would require a considerable effort, including bleeding down the pressure in the primary water supply system, which is undesirable during plant operation and would be an unreasonable burden on the plant staff to perform at cold shutdown.

In addition, these valves are normally closed during plant operation with the inboard manual valves (*-10-0582) also closed. Thus, in effect, they are passive valves and essentially, need not be exercised.

Chemical & Volume Control (CVCS) (5613(4)-M-3047-2)

3-0312C

4-0312C

Charging Header Containment Isolation Check Valves

These are simple check valves with no external means of position indication, thus the only practical means of verifying closure is by performing a leaktest or backflow test. During plant operation, the valves are normally open supplying charging water to the reactor coolant system. Interruption of this flow during operation could result in a CVCS flow imbalance and a possible plant trip as a result of pressurizer level fluctuations. Performing leaktests of these valves involves a considerable effort such that testing at each cold shutdown outage would constitute an unreasonable burden on the plant staff.

3-0351

4-0351

Emergency Boration Check Valves

Testing these valves requires the introduction of highly concentrated boric acid solution from the boric acid tanks to the suction of the charging pumps. This, in turn, would result in the addition of excess boron to the RCS which adversely affects plant power level

and operational parameters with the potential for an undesirable plant transient and a plant trip or shutdown. During cold shutdown, the additional boric acid introduced into the RCS would cause considerable operational difficulty during the ensuing startup.

Chemical & Volume Control (CVCS) (5613(4)-M-3047-3)

3-0298A thru 3-0298C

4-0298A thru 4-0298C

RCP Seal Water Containment Isolation Check Valves

These are simple check valves with no external means of position indication, thus the only practical means of verifying closure is by performing a leaktest or backflow test. During plant operation, the valves are normally opened supplying seal water to the RCP's. Interruption of this flow during pump operation could result in RCP seal failure. Performing leaktests of these valves involves a considerable effort such that testing at each cold shutdown outage would constitute an unreasonable burden on the plant staff.

Safety Injection (5613(4)-M-3062-1)

3-0874 A&B

4-0874 A&B

Safety Injection Hot-Leg Injection Check Valves

Exercising these valves (open) requires operating a safety injection pump and injecting into the reactor coolant system. At power operation this is not possible because the SIS pumps cannot develop sufficient discharge pressure to overcome reactor coolant system pressure. During normal cold shutdown conditions, injection via the SIS pumps is precluded by operational restrictions related to low-temperature over-pressurization protection concerns and Technical Specifications.

3-0879 A&B

4-0879 C&D

Safety Injection Pump Discharge Check Valves

Full stroke exercising of these valves would require operating each safety injection pump at nominal accident flowrate. At power operation the only

flowpath available for such operation would necessitate injecting into the reactor coolant system since the full flow recirculation path is located upstream of the pump discharge check valves. During cold shutdown conditions, injection via the SIS pumps is precluded by operational restrictions related to low-temperature over-pressurization protection concerns and Turkey Point Technical Specifications, Section 3.4.9.3.

Safety Injection (SIS) (5613(4)-M-3064-1)

3-0873A thru 3-0873C

4-0873A thru 4-0873C

SIS Cold Leg Branch Injection Line Check Valves

Full stroke exercising of these valves would require operating a safety injection pump at nominal accident flowrate and injecting into the reactor coolant system. At power operation this is not possible because the safety injection pumps can not develop sufficient discharge pressure to overcome reactor coolant system pressure. During normal cold shutdown conditions, injection via the safety injection pumps is precluded by operational restrictions related to low-temperature over-pressurization protection concerns.

3-0875A thru 3-0875C

4-0875A thru 4-0875C

SIS Cold Leg Injection Check Valves

Partial-flow testing of these valves requires injecting fluid into the RCS. At power operation this is not possible because neither the RHR or the SIS pumps can develop sufficient discharge pressure to overcome reactor coolant system pressure. During normal cold shutdown conditions, however, injection via the RHR pumps can be accomplished.

With respect to full stroke exercising of these valves to the open position, in order to satisfy the requirements of Generic Letter 89-04, a demonstration of the maximum accident flow must be performed or some other indication of full-stroke of the obturator must be provided. For these valves the maximum accident flowrate is defined as that flowrate resulting from a fully pressurized SIS accumulator injecting into a depressurized RCS loop. Achieving this flowrate during power operation is not practical due to limitations associated with the reactor coolant system pressure.

It has been demonstrated, by past testing, that these valves can be opened by blowdown from a partially pressurized (~100 psi) accumulator to the associated RCS loop. Performing such a test during plant operation is not possible due to the limitations associated with reactor coolant system pressure. The extensive preparations (including insulation removal, erection of scaffolding, etc.) required to perform such a test make it impractical to perform during cold shutdown periods.

3-0875 D-F

4-0875 D-F

SI Accumulator Discharge Check Valves

Full stroke exercising of these valves to the open position, based on the maximum accident flowrate resulting from SIS accumulator injection to a de-pressurized RCS loop, is not practical due to limitations associated with the effects of such a test on system components.

It has been demonstrated, by past testing, that these valves can be fully opened by blowdown from a partially pressurized (100 psig.) accumulator to the associated RCS loop. Performing such a test during plant operation is not possible due to the limited pressure capability of the SI tanks. During cold shutdown periods the extensive preparations required to perform an accumulator discharge test make it impractical.

The only practical means of verifying closure involves performing a leakage test. Performance of such a test would necessitate closure of the upstream motor operated valve or de-pressurization of the associated SIS accumulator, which is not practical during power operation and would constitute an unwarranted burden on plant staff during cold shutdowns.

3-0876 B&C

4-0876 B&C

Low Head Injection Line Check Valves

Since no recirculation path exists, exercising these valves requires operating an RHR pump and injecting into the reactor coolant system. At power operation this is not possible due to system design pressure and interlocks that prevent operation of the RHR system in cooldown alignment when RCS pressure exceeds 515 psig.

During normal cold shutdown conditions, injection via the RHR pumps is practical and these valves can be full-stroke exercised. Since they have no position indicators and are installed such that the only lineup available causes them to form a parallel path, full accident flow through each valve cannot be confirmed and thus full stroke verification by simple means is not possible. Employing non-obtrusive methods for verifying full stroke would require extensive preparations including containment entry, insulation removal, erection of scaffolding, etc. and thus is not practical during cold shutdown periods.

3-0945E

4-0945E

Safety Injection Nitrogen Supply Check Valve

These are check valves with no external means of position indication, thus the only practical means of verifying closure is by performing a leaktest or backflow test. This would require entry into the containment building and thus is impractical to perform during plant operation and would be an unreasonable burden on the plant staff to perform at cold shutdown.

Containment Spray (5613(4)-M-3068-1)

3-0890 A&B

4-0890 A&B

Containment Spray Pump Discharge Check Valves

Since these are simple-acting check valves with no provision for determining disc position, the only practical means of verifying closure involves performing a leaktest. Performance of such a test would require considerable effort, including isolation and draining of the containment spray piping, system reconfiguration, hooking up and disconnecting leak testing equipment, and pressurizing the downstream piping with air or nitrogen while venting the upstream piping. Such a test is not practical during plant operation and could result in delays in the return to power operation during cold shutdown periods to the extent that it would be an unreasonable burden on the plant staff. These valves remain closed at all times except during an MHA in which the containment spray system operates for containment cooling and de-pressurization.

Containment Post-Accident Evaluation (5613(4)-M-3094-1)

3-11-0003

4-11-0003

Containment Atmosphere Sample Return Isolation Check
Valves

These are simple check valves with no external means of position indication, thus the only practical means of verifying closure is by performing a leaktest or backflow test. This would require entry into the containment building and thus is impractical to perform during plant operation and would be an unreasonable burden on the plant staff to perform at cold shutdown.

Breathing Air System (5613(4)-M-3101-1)

3-BA-0201

4-BA-0201

Breathing Air Supply Containment Isolation Check Valves

These are simple check valves with no external means of position indication, thus the only practical means of verifying closure is by performing a leaktest or backflow test. This would require entry into the containment building and thus is impractical to perform during plant operation and would be an unreasonable burden on the plant staff to perform at cold shutdown.

5.7 Relief Requests for Valve Testing

Relief requests VR-1 and VR-2, provided in the following pages, are initiated per 10CFR50.55a where appropriate.

RELIEF REQUEST NO. VR-1

SYSTEM:

Containment Spray (5613(4)-M-3068-1)

COMPONENTS:

3-0890 A&B

4-0890 A&B

CATEGORY:

A/C

FUNCTION:

These check valves open to provide flowpaths from the containment spray pumps to the containment spray headers in containment. They are required to close for containment isolation.

PART 10 REQUIREMENT:

Check valves shall be exercised nominally every 3 months, except as provided by Paragraph 4.3.2.2, 4.3.2.3, 4.3.2.4, and 4.3.2.5. (Paragraph 4.3.2)

As an alternative to the testing in (a) or (b) above, disassembly every refueling outage to determine operability of check valves may be used. (Paragraph 4.3.2.4(c))

BASIS FOR RELIEF:

Full-stroke exercising these valves to the open position would require operating each containment spray pump at nominal accident flowrate. Since no recirculation flowpath exists downstream of these valves, the only flowpath available for such a test would result in injecting radioactive-contaminated borated water into the containment spray headers and thence into the containment building via the spray nozzles. Dousing personnel and equipment in this manner is obviously undesirable.

RELIEF REQUEST NO. VR-1 (cont.)

BASIS FOR RELIEF (cont.)

Partial stroking of the valves can be achieved by pressurizing the upstream piping with air or nitrogen via the air test connection. Performing partial flow exercising by this method during any mode of plant operation (at power or cold shutdown), however, has the potential of creating an airborne contamination personnel hazard in the auxiliary building and containment.

The alternate testing proposed below meets the intent of Reference 2.7, Position 2 for sample inspection programs.

Background

Each of these valves has been disassembled and inspected in the past and they have not displayed any indication of degradation that would impede their capability to perform their safety function to open. Past inspections were conducted as follows with no indication of a valve inoperability with respect to its capability to full open:

3-0890A	4-7-90 and 11-28-92
3-0890B	3-24-90 and 11-28-92
4-0890A	3-18-89 and 3-8-91
4-0890B	3-18-89, 3-8-91 and 5-18-93

ALTERNATE TESTING:

During each reactor refueling outage at least one of these valves will be disassembled, inspected, and manually exercised on a sequential and rotating schedule. If, in the course of this inspection a valve is found to be inoperable with respect to its function to fully open, then the other valve will be inspected during the same outage. During activities associated with valve disassembly and inspection and prior to system closure, appropriate precautions will be applied and inspections performed to ensure internal

RELIEF REQUEST NO. VR-1 (cont.)

ALTERNATE TESTING (cont).:

cleanliness standards are maintained and foreign materials are excluded from valve and system internals. These measures may include creating controlled work areas, maintaining a tool and equipment accounting system, installation of covers during non-work periods, and final close-out inspections.

Following valve re-assembly, the subject valve will be partial-stroked in the open direction and a seat leakage test will be performed. These functional testing activities will ensure that the subject valve has been re-assembled and aligned properly.



RELIEF REQUEST NO. VR-2

SYSTEM:

Safety Injection (SIS) (5613(4)-M-3062-1)
Safety Injection (SIS) (5613(4)-M-3064-1)

COMPONENTS:

3-0873 A&B
4-0873 A&B
3-0874 A&B
4-0874 A&B

CATEGORY:

A/C

FUNCTIONS:

3-0873 A&B and 4-0873 A&B

These valves open to provide flowpaths for borated water injection from the SIS pumps each of the RCS cold legs. Additionally, they close to provide isolation of the safety injection system from the RCS high pressure.

3-0874 A&B and 4-0874 A&B

These valves open to provide flowpaths for borated water injection from the SIS pumps to "A" and "B" RCS hot legs. Additionally, they close to provide isolation of the safety injection system from the RCS high pressure.

PART 10 REQUIREMENT:

Check valves shall be exercised nominally every 3 months, except as provided by Paragraph 4.3.2.2, 4.3.2.3, 4.3.2.4, and 4.3.2.5. (Paragraph 4.3.2)

RELIEF REQUEST NO. VR-2 (cont.)

BASIS FOR RELIEF:

Since these are simple-acting check valves with no provision for determining disc position, the only practical means of verifying closure involves performing a leaktest. Performance of such a test at each cold shutdown would constitute an unreasonable burden on the plant staff. The Technical Specifications, Section 4.4.6.2.2, establishes a more appropriate frequency for leak testing based on their pressure isolation function. The Technical Specification requirements are adequate to confirm valve operability in the closed position. The requirements of the Technical Specifications are as follows:

- * At least once every 18 months;
- * Prior to entering Mode 2 whenever the plant has been in cold shutdown for 72 hours or more and if leakage testing has not been performed in the previous 9 months;
- * Prior to returning a valve to service following maintenance, repair, or replacement work on the valve; and
- * Following valve actuation due to automatic or manual action or flow through the valve:
 1. Within 24 hours by verifying valve closure, and
 2. Prior to entering Mode 2 by verifying valve leakrate

ALTERNATE TESTING:

Valve closure testing will conform to the requirements of Turkey Point Technical Specification, Section 4.4.6.2.2.

LEGEND A

LEGEND FOR PUMP PROGRAM TABLES

PUMP NUMBER	Numerical designator indicated on the respective flow diagram.
PUMP NUMBER, C/D	Refers to system test configuration during cold shutdown or refueling outage conditions.
DESCRIPTION	Generic name/function of the pump.
CL	ISI Classification per the associated ISI boundary drawing(s)
DRAWING #/COORD	Corresponds to the flow diagram and drawing coordinates of the pump.
Test Parameters	The table indicates by a "Y" (yes) or "N" (no) that the specific parameter is measured, evaluated, and recorded per the applicable Code requirement. If a "N" is indicated, the associated relief request number is also noted in the same column. "NA" indicates that the specific parameter is not applicable to this pump.
PR-XX	Where indicated this refers to the specific relief request where there is a deviation regarding the measurement or analysis of a parameter.

LEGEND B

LEGEND FOR VALVE PROGRAM TABLES

VALVE NUMBER	The plant alpha-numerical designator for the subject valve
COORD	The coordinate location of the valve on the designated drawing
CL	The ISI Classification of the valve
CAT	The valve category per Paragraph 1.4
SIZE	The valve's nominal size in inches
TYPE	The valve type
A/P	The active (A) or passive (P) determination for the valve
ACT. TYPE	The valve actuator type as follows: A/O Air-operated MAN Manual valve MO Electric motor-operated S/A Self-actuated SO Solenoid-operated
NORM POS.	Designates the normal position of the valve during plant operation at power
REM IND	Notes if a valve has remote position indication
FAIL MODE	Identifies the failure mode (open or closed) for a valve. FAI indicates the valve fails "as is".
EXAM	Identifies the test requirements for a valve as follows: EO Exercise to the open position-stroke time will not be measured. EC Exercise to the closed position-stroke time will not be measured. FS Fail safe test INSP Disassembly and inspection of check valves PEO Partial-stroke test to the open position of check valves S/R Safety/relief valve setpoint test SLT-1 Seat leakrate test per 10 CFR 50, App J SLT-2 Seat leakrate test for pressure isolation valves TC Exercise to closed position-stroke time will be measured. TO Exercise to open position-stroke time will be measured V Position indication verification

100
100



LEGEND B

LEGEND FOR VALVE PROGRAM TABLES, con't.

TEST FREQ

Identifies the required test interval as follows:

- 1 Each reactor refueling outage (cycle)
- 2 Cold shutdown as defined by Tech. Specs.
- 3 Quarterly (during plant operation)
- 4 During cold shutdown with the reactor
coolant system cooled down and vented
- 5 Every 2 years
- 6 Prior to placing a system or component
in operable status
- 7 Other (See applicable Request for Relief)
- 8 5 Years
- 9 10 Years

RELIEF REQ

Refers to the specific relief request
associated with the indicated test
requirement.

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Appendix A
Pump Program Tables
Unit 3

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PUMP TABLES
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PUMP NUMBER	DESCRIPTION	CL	DRAWING #/COORD	SPEED	DISCH. PRES.	DIFF. PRES.	FLOW RATE	VIBRA.	REMARKS
3-P10A	DIESEL OIL TRANSFER	NA	5613-M-3022-3/D-5	NA	NA	Y	Y	Y	
3-P10B	DIESEL OIL TRANSFER	NA	5613-M-3022-4/C-4	NA	NA	Y	Y	Y	
3-P201A	CHARGING	2	5613-M-3047-2/G-5	Y	Y	NA	Y	Y	
3-P201B	CHARGING	2	5613-M-3047-2/F-5	Y	Y	NA	Y	Y	
3-P201C	CHARGING	2	5613-M-3047-2/D-5	Y	Y	NA	Y	Y	
3-P203A	BORIC ACID TRANSFER	2	5610-M-3046-1/D-6	NA	NA	Y	N:PR-1	Y	
3-P203A,C/D	BORIC ACID TRANSFER	2	5610-M-3046-1/D-6	NA	NA	Y	Y	Y	
3-P203B	BORIC ACID TRANSFER	2	5610-M-3046-1/E-5	NA	NA	Y	N:PR-1	Y	
3-P203B,C/D	BORIC ACID TRANSFER	2	5610-M-3046-1/E-5	NA	NA	Y	Y	Y	
3-P210A	RESIDUAL HEAT REMOVAL	2	5613-M-3050-1/C-3	NA	NA	Y:PR-3	Y:PR-2	Y	
3-P210A,C/D	RESIDUAL HEAT REMOVAL	2	5613-M-3050-1/C-3	NA	NA	Y:PR-3	Y	Y	
3-P210B	RESIDUAL HEAT REMOVAL	2	5613-M-3050-1/E-3	NA	NA	Y:PR-3	Y:PR-2	Y	
3-P210B,C/D	RESIDUAL HEAT REMOVAL	2	5613-M-3050-1/E-3	NA	NA	Y:PR-3	Y	Y	
3-P211A	COMPONENT COOLING	3	5613-M-3030-1/F-4	NA	NA	Y	Y	Y	
3-P211B	COMPONENT COOLING	3	5613-M-3030-1/F-3	NA	NA	Y	Y	Y	
3-P211C	COMPONENT COOLING	3	5613-M-3030-1/F-2	NA	NA	Y	Y	Y	
3-P212A	SPENT FUEL PIT COOLING	3	5613-M-3033-1/F-5	NA	NA	Y	Y	Y	
3-P212B	SPENT FUEL PIT COOLING	3	5613-M-3033-1/E-5	NA	NA	Y	Y	Y	
3-P214A	CONTAINMENT SPRAY	2	5613-M-3068-1/D-3	NA	NA	Y	Y	Y	
3-P214B	CONTAINMENT SPRAY	2	5613-M-3068-1/G-3	NA	NA	Y	Y	Y	
3-P215A	HIGH HEAD SAFETY INJECT	2	5613-M-3062-1/E-3	NA	NA	Y	Y	Y	
3-P215B	HIGH HEAD SAFETY INJECT	2	5613-M-3062-1/G-3	NA	NA	Y	Y	Y	
3-P9A	INTAKE COOLING WATER	3	5613-M-3019-1/F-2	NA	NA	Y	Y	Y:PR-5	
3-P9B	INTAKE COOLING WATER	3	5613-M-3019-1/D-2	NA	NA	Y	Y	Y:PR-5	

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PUMP NUMBER	DESCRIPTION	CL	DRAWING #/COORD	SPEED	DISCH. PRES.	DIFF. PRES.	FLOW RATE	VIBRA.	REMARKS
3-P9C	INTAKE COOLING WATER	3	5613-M-3019-1/B-2	NA	NA	Y	Y	Y:PR-5	
P2A	AUXILIARY FEED	3	5610-M-3075-2/B-3	Y	NA	Y	Y	Y	COMMON
P2B	AUXILIARY FEED	3	5610-M-3075-2/E-3	Y	NA	Y	Y	Y	COMMON
P2C	AUXILIARY FEED	3	5610-M-3075-2/G-3	Y	NA	Y	Y	Y	COMMON

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Appendix B
Pump Program Tables
Unit 4

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PUMP NUMBER	DESCRIPTION	CL	DRAWING #/COORD	SPEED	DISCH. PRES.	DIFF. PRES.	FLOW RATE	VIBRA.	REMARKS
4-P201A	CHARGING	2	5614-M-3047-2/G-5	Y	Y	NA	Y	Y	
4-P201B	CHARGING	2	5614-M-3047-2/F-5	Y	Y	NA	Y	Y	
4-P201C	CHARGING	2	5614-M-3047-2/D-5	Y	Y	NA	Y	Y	
4-P203A	BORIC ACID TRANSFER	2	5610-M-3046-1/E-4	NA	NA	Y	N:PR-1	Y	
4-P203A,C/D	BORIC ACID TRANSFER	2	5610-M-3046-1/E-4	NA	NA	Y	Y	Y	
4-P203B	BORIC ACID TRANSFER	2	5610-M-3046-1/F-3	NA	NA	Y	N:PR-1	Y	
4-P203B,C/D	BORIC ACID TRANSFER	2	5610-M-3046-1/F-3	NA	NA	Y	Y	Y	
4-P210A	RESIDUAL HEAT REMOVAL	2	5614-M-3050-1/C-3	NA	NA	Y:PR-3	Y:PR-2	Y	
4-P210A,C/D	RESIDUAL HEAT REMOVAL	2	5614-M-3050-1/C-3	NA	NA	Y:PR-3	Y	Y	
4-P210B	RESIDUAL HEAT REMOVAL	2	5614-M-3050-1/E-3	NA	NA	Y:PR-3	Y:PR-2	Y	
4-P210B,C/D	RESIDUAL HEAT REMOVAL	2	5614-M-3050-1/E-3	NA	NA	Y:PR-3	Y	Y	
4-P211A	COMPONENT COOLING	3	5614-M-3030-1/F-4	NA	NA	Y	Y	Y	
4-P211B	COMPONENT COOLING	3	5614-M-3030-1/F-3	NA	NA	Y	Y	Y	
4-P211C	COMPONENT COOLING	3	5614-M-3030-1/F-2	NA	NA	Y	Y	Y	
4-P212A	SPENT FUEL PIT COOLING	3	5614-M-3033-1/F-5	NA	NA	Y	Y	Y	
4-P212B	SPENT FUEL PIT COOLING	3	5614-M-3033-1/E-5	NA	NA	Y	Y	Y	
4-P214A	CONTAINMENT SPRAY	2	5614-M-3068-1/C-3	NA	NA	Y	Y	Y	
4-P214B	CONTAINMENT SPRAY	2	5614-M-3068-1/G-3	NA	NA	Y	Y	Y	
4-P215A	HIGH HEAD SAFETY INJECT	2	5614-M-3062-1/E-3	NA	NA	Y	Y	Y	
4-P215B	HIGH HEAD SAFETY INJECT	2	5614-M-3062-1/G-3	NA	NA	Y	Y	Y	
4-P241A	DIESEL OIL TRANSFER	3	5614-M-3022-3/C-5	NA	Y	NA	Y	Y	
4-P241B	DIESEL OIL TRANSFER	3	5614-M-3022-4/C-5	NA	Y	NA	Y	Y	
4-P9A	INTAKE COOLING WATER	3	5614-M-3019-1/F-2	NA	NA	Y	Y	Y:PR-5	
4-P9B	INTAKE COOLING WATER	3	5614-M-3019-1/D-2	NA	NA	Y	Y	Y:PR-5	

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PUMP NUMBER	DESCRIPTION	CL	DRAWING #/COORD	SPEED	DISCH. PRES.	DIFF. PRES.	FLOW RATE	VIBRA.	REMARKS
4-P9C	INTAKE COOLING WATER	3	5614-M-3019-1/8-2	NA	NA	Y	Y	Y:PR-5	

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Appendix C
Valve Program Tables
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P & ID: 5610-M-3013-1

SYSTEM: INSTRUMENT AIR/SERVICE AIR DIST.

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-40-0204	C-6	2	A	2.000	GATE	P	MAN	LC	NO		SLT-1	5		
3-40-0205	C-7	2	A/C	2.000	CHECK	A	S/A	NC	NO		EC SLT-1	1 5		
HV-3-0017	C-6	2	A	2.000	GLOBE	P	MAN	LC	NO		SLT-1	5		

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P & ID: 5610-M-3046-1

SYSTEM: CVCS - BORIC ACID

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. NORM REM FAIL				EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
3-0397A	D-7	2	C	2.000	CHECK	A	S/A	NC	NO		EC	3		
											EO	1		
											PEO	3		
3-0397B	E-6	2	C	2.000	CHECK	A	S/A	NC	NO		EC	3		
											EO	1		
											PEO	3		



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P & ID: 5610-M-3065-1

SYSTEM: NITROGEN AND HYDROGEN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0518	D-7	2	A/C	0.750	CHECK	A	S/A	NC	NO		EC SLT-1	1 5		
3-0519	D-6	2	A/C	0.750	S/CHK	A	S/A	NC	NO		EC SLT-1	1 5		
3-4656	D-7	2	A	1.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
CV-3-0855	E-6	2	A	1.000	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
PCV-3-1014	D-6	2	A	1.000	GLOBE	P	A/O	NC	NO	FC	SLT-1	5		

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P & ID: 5610-M-3075-1

SYSTEM: AFW - TURBINE DRIVE FOR AFW PUMPS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
AFSS-0003B	D-4	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3	
AFSS-0003C	F-4	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3	
MOV-6459A	B-5	3	B	3.000	GATE	A	MO	NO	YES	FAI	TO V	3 5	
MOV-6459B	D-5	3	B	3.000	GATE	A	MO	NO	YES	FAI	TO V	3 5	
MOV-6459C	F-5	3	B	3.000	GATE	A	MO	NO	YES	FAI	TO V	3 5	

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P & ID: 5610-M-3075-2

SYSTEM: AFW - AUX. FEEDWATER SUPPLY TO STM GEN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
20-0143	B-7	3	C	6.000	CHECK	A	S/A	NC	NO		EC EO	6 3		NOTE 1
20-0243	D-7	3	C	6.000	CHECK	A	S/A	NC	NO		EC EO	3 3		
20-0343	G-7	3	C	6.000	CHECK	A	S/A	NC	NO		EC EO	3 3		
AFWU-0013	A-4	3	C	1.000	CHECK	A	S/A	NC	NO		EO	3		
AFWU-0014	D-4	3	C	1.000	CHECK	A	S/A	NC	NO		EO	3		
AFWU-0015	F-4	3	C	1.000	CHECK	A	S/A	NC	NO		EO	3		
AFWU-3-0017	A-6	3	C	2.000	CHECK	A	S/A	NC	NO		INSP PEO	1 3		
RV-6401A	B-4	3	C	1.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-6401B	D-4	3	C	1.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-6401C	F-4	3	C	1.000	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5613-M-3013-7

SYSTEM: INSTRUMENT AIR

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-40-0336	B-3	2	A/C	2.000	CHECK	A	S/A	NO	NO		EC SLT-1	1 5		
3-40-0340A	B-3	2	A/C	2.000	S/CHK	A	S/A	NO	NO		EC SLT-1	1 5		

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P & ID: 5613-M-3018-1

SYSTEM: CONDENSATE STORAGE

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.	NORM	REM	FAIL	TEST	RELIEF	REMARKS
							TYPE	POS.	IND	MODE	EXAM	FREQ	REQ.
3-20-0401	D-3	3	C	8.000	CHECK	A	S/A	NC	NO		EO	3	

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P & ID: 5613-M-3019-1

SYSTEM: INTAKE COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-50-0311	F-3	3	C	24.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
3-50-0321	D-3	3	C	24.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
3-50-0331	B-3	3	C	24.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
POV-3-4882	B-4	3	B	30.000	BUTFY	A	A/O	NO	YES	FC	FS TC V	3 3 5		
POV-3-4883	F-4	3	B	30.000	BUTFY	A	A/O	NO	YES	FC	FS TC V	3 3 5		

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P & ID: 5613-M-3020-2

SYSTEM: PRIMARY MAKEUP WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-10-0567	D-5	2	A/C	2.000	CHECK	A	S/A	NC	NO		EC SLT-1	1 5		
3-10-0582	D-6	2	A	2.000	GATE	P	MAN	NC	NO		SLT-1	5		

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P & ID: 5613-M-3022-1

SYSTEM: EDG 3A AIR STARTING

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-70-0274A	C-3	NC	C	2.000	CHECK	A	S/A	NC	NO		EC	3		NOTE 2
3-70-0276A	D-3	NC	C	2.000	CHECK	A	S/A	NC	NO		EC	3		NOTE 2
RV-3-0210A	B-4	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0211A	B-4	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0212A	B-3	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0213A	B-3	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2

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SYSTEM: EDG 3B AIR STARTING

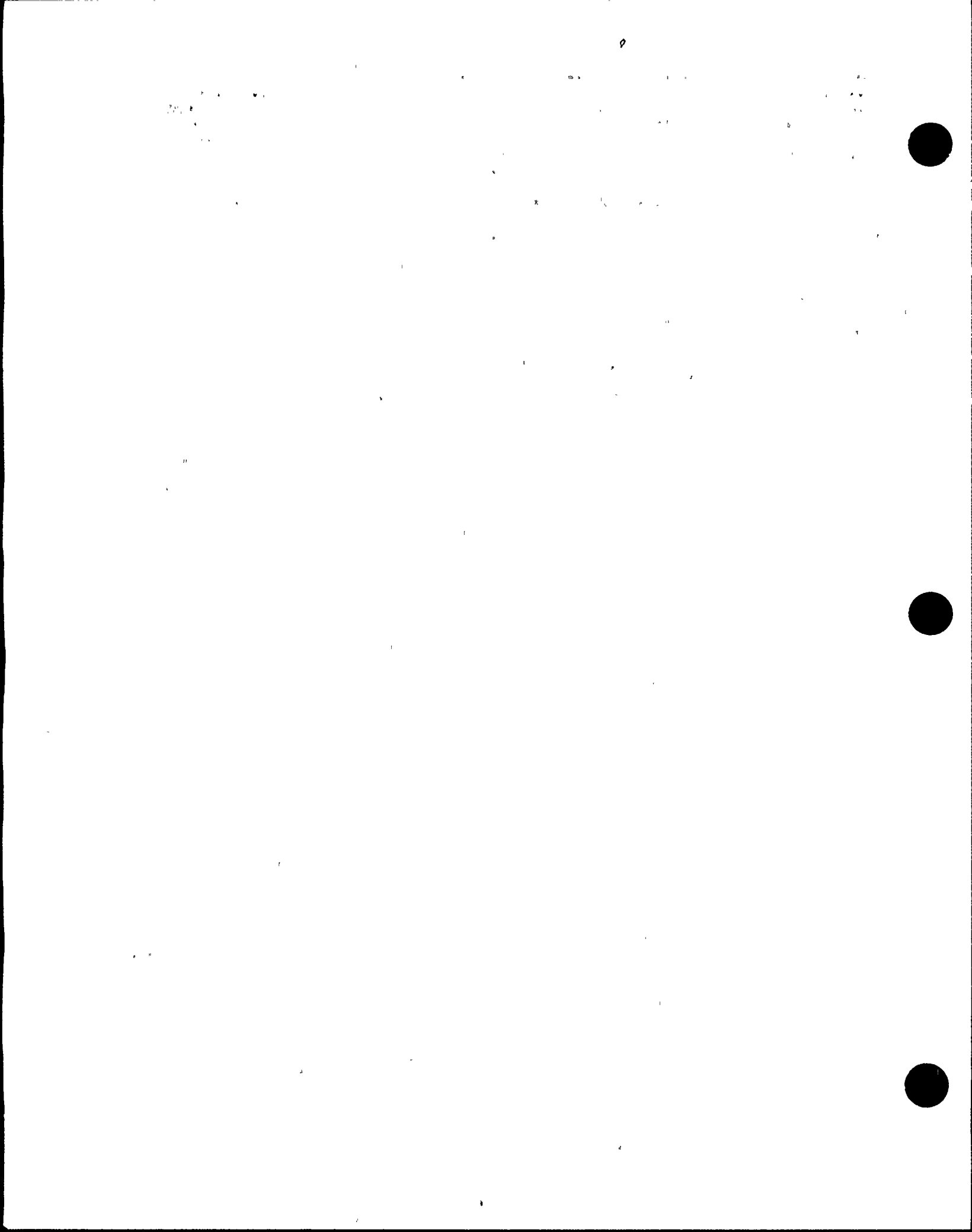
VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-70-0274B	C-3	NC	C	2.000	CHECK	A	S/A	NC	NO		EC	3		NOTE 2
3-70-0276B	D-3	NC	C	2.000	CHECK	A	S/A	NC	NO		EC	3		NOTE 2
RV-3-0210B	B-4	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0211B	B-4	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0212B	B-3	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0213B	B-3	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2

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P & ID: 5613-M-3022-3 SYSTEM: EDG 3A FUEL SYSTEM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-70-0006A	C-5	NC	C	2.000	CHECK	A	S/A	NC	NO		EO	3		
CV-3-2046A	D-6	NC	B	2.000	GLOBE	A	A/O	NC	NO	FC	EO	3		NOTE 3
SV-3-2051A	C-4	NC	B	2.000	GLOBE	A	SO	NC	NO	FC	EO	3		NOTE 3
SV-3-3522A	F-4	NC	B	1.500	GLOBE	A	SO	NC	NO	FC	EO	3		NOTE 3



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P & ID: 5613-M-3022-4

SYSTEM: EDG 3B FUEL SYSTEM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-70-0006B	C-4	NC	C	2.000	CHECK	A	S/A	NC	NO		EO	3		
CV-3-2046B	C-6	NC	B	2.000	GLOBE	A	A/O	NC	NO	FC	EO	3		NOTE 3
SV-3-2051B	C-2	NC	B	2.000	GLOBE	A	SO	NC	NO	FC	EO	3		NOTE 3
SV-3-3522B	E-4	NC	B	1.500	GLOBE	A	SO	NC	NO	FC	EO	3		NOTE 3

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P & ID: 5613-M-3030-1

SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0702A	E-4	3	C	16.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
3-0702B	E-3	3	C	16.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
3-0702C	E-2	3	C	16.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
CWST VAC BKR	C-6	3	C	2.000	CHECK	A	S/A	NC	NO		EC EO	3 3		
RV-3-0707	C-7	3	C	3.000	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5613-M-3030-2 SYSTEM: COMPONENT COOLING WATER

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VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-3-0749A	F-7	3	B	16.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0749B	F-7	3	B	16.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		

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P & ID: 5613-M-3030-4 SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-2903	D-3	2	B	10.000	BUTFY	P	A/O	NO	YES	FO	V	5		
CV-3-2904	C-3	2	B	10.000	BUTFY	P	A/O	NO	YES	FO	V	5		
CV-3-2905	B-3	2	B	10.000	BUTFY	P	A/O	NO	YES	FO	V	5		
CV-3-2906	G-3	2	B	10.000	BUTFY	A	A/O	NC	YES	FO	FS TO V	3 3 5		
CV-3-2907	F-3	2	B	10.000	BUTFY	A	A/O	NC	YES	FO	FS TO V	3 3 5		
CV-3-2908	E-3	2	B	10.000	BUTFY	A	A/O	NC	YES	FO	FS TO V	3 3 5		

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P & ID: 5613-M-3030-5 SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0721A	E-6	3	C	1.500	CHECK	A	S/A	NO	NO		EC	1		
3-0721B	A-6	3	C	1.500	CHECK	A	S/A	NO	NO		EC	1		
3-0721C	C-6	3	C	1.500	CHECK	A	S/A	NO	NO		EC	1		
3-0738	D-3	2	C	3.000	CHECK	A	S/A	NC	NO		EC	2		
CV-3-0739	C-2	2	B	3.000	GLOBE	A	A/O	NO	YES	FC	FS TC V	3 3 5		
MOV-3-0626	H-3	2	B	3.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-3-0716A	E-2	3	B	6.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-3-0716B	E-2	2	B	6.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-3-0730	G-3	2	B	6.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-3-1417	B-2	2	B	10.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-3-1418	F-2	2	B	10.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
RV-3-0715	C-3	3	C	3.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-0729	F-7	3	C	3.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1426	E-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1427	E-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1428	C-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1429	A-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1430	D-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1431	B-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5613-M-3032-1 SYSTEM: STEAM GENERATOR BLOWDOWN RECOVERY

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VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-3-1425	D-2	2	B	1.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
MOV-3-1426	C-2	2	B	1.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
MOV-3-1427	B-2	2	B	1.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		

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P & ID: 5613-M-3033-1.

SYSTEM: SPENT FUEL POOL COOLING

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0911	F-5	3	C	8.000	CHECK	A	S/A	NO	NO		EO	3		
3-0914	E-5	3	C	8.000	CHECK	A	S/A	NO	NO		EO	3		

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P & ID: 5613-M-3036-1

SYSTEM: SAMPLE SYSTEM - NSSS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
CV-3-0951	A-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0953	B-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0955C	D-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0955D	E-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0955E	E-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0956A	A-3	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0956B	B-3	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0956D	E-3	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
SV-3-6427A	C-2	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	

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P & ID: 5613-M-3036-1 (cont) SYSTEM: SAMPLE SYSTEM - NSSS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	TYPE	POS.	IND	MODE	EXAM	TEST RELIEF		REMARKS
												FREQ	REQ.	
SV-3-6427B	D-2	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
SV-3-6428	C-3	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		

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P & ID: 5613-M-3041-2

SYSTEM: REACTOR COOLANT (RCS)

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-0516	G-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
MOV-3-0535	B-6	1	B	3.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
MOV-3-0536	C-6	1	B	3.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
PCV-3-0455C	C-7	1	B	2.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO V	2 2 2 5		
PCV-3-0456	B-7	1	B	2.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO V	2 2 2 5		
RV-3-0551A	B-5	1	C	4.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-0551B	C-4	1	C	4.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-0551C	C-3	1	C	4.000	SAFE	A	S/A	NC	NO		S/R	8		
SV-3-6318A	E-7	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5		
SV-3-6318B	E-7	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5		
SV-3-6385	G-2	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
SV-3-6611	F-7	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5		
SV-3-6612	F-6	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5		

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P & ID: 5613-M-3041-3

SYSTEM: RCS - REACTOR COOLANT PUMPS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-0519A	A-8	2	A	3.000	DIAPH	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-3-0519B	A-3	2	A	3.000	DIAPH	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-3-0522A	B-7	2	A	0.750	DIAPH	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-3-0522B	B-7	2	A	0.750	DIAPH	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-3-0522C	C-7	2	A	0.750	DIAPH	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		

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P & ID: 5613-M-3047-1 SYSTEM: CVCS - CHARGING AND LETDOWN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-0200A	A-2	1	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0200B	B-2	1	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0200C	C-2	1	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0204	C-4	2	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	2 5 2 5		
RV-3-0203	A-3	2	A/C	2.000	SAFE	A	S/A	NC	NO		S/R SLT-1	9 5		

1. The first part of the document is a list of names and addresses, which are arranged in a table-like format. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

2. The second part of the document is a list of names and addresses, which are arranged in a table-like format. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

3. The third part of the document is a list of names and addresses, which are arranged in a table-like format. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

4. The fourth part of the document is a list of names and addresses, which are arranged in a table-like format. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

5. The fifth part of the document is a list of names and addresses, which are arranged in a table-like format. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

6. The sixth part of the document is a list of names and addresses, which are arranged in a table-like format. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

7. The seventh part of the document is a list of names and addresses, which are arranged in a table-like format. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

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P & ID: 5613-M-3047-2

SYSTEM: CVCS - CHARGING AND LETDOWN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0312A	C-8	1	C	3.000	CHECK	A	S/A	NO	NO		EO	3		
3-0312B	A-8	1	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
3-0312C	E-7	1	C	3.000	CHECK	A	S/A	NO	NO		EC EO	5 3		
3-0351	F-1	2	C	2.000	CHECK	A	S/A	NC	NO		EO	1		
3-0357	F-3	2	C	4.000	CHECK	A	S/A	NC	NO		EO	2		
CV-3-0310A	C-7	1	B	3.000	GLOBE	A	A/O	NO	YES	FO	FS TO V	3 3 5		
CV-3-0310B	A-7	1	B	3.000	GLOBE	A	A/O	NC	YES	FO	FS TO V	3 3 5		
HCV-3-0121	F-7	2	B	3.000	GLOBE	A	A/O	NO	NO	FO	FS TO	2 2		
LCV-3-0115B	F-4	2	B	4.000	BUTFY	A	A/O	NC	YES	FC	TO V	2 5		
LCV-3-0115C	C-4	2	B	4.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-3-0350	F-1	2	B	2.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
RV-3-0283A	G-5	2	C	0.750	SAFE	A	SA	NC	NO		S/R	9		
RV-3-0283B	E-5	2	C	0.750	SAFE	A	SA	NC	NO		S/R	9		
RV-3-0283C	C-5	2	C	0.750	SAFE	A	SA	NC	NO		S/R	9		

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud.

2. The second part of the document outlines the specific procedures for recording transactions. It details the steps involved in the accounting process, from the initial entry of data into the system to the final reconciliation of accounts.

3. The third part of the document addresses the role of internal controls in ensuring the accuracy and reliability of financial information. It discusses various control mechanisms, such as segregation of duties and regular audits, and explains how they contribute to the overall effectiveness of the financial system.

4. The fourth part of the document provides a summary of the key findings and recommendations. It highlights the areas where improvements are needed and offers practical suggestions for implementing these changes.



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P & ID: 5613-M-3047-3

SYSTEM: CVCS - SEAL WATER INJECTION TO RCP

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0298A	F-4	1	C	2.000	CHECK	A	S/A	NO	NO		EC	1		
3-0298B	B-4	1	C	2.000	CHECK	A	S/A	NO	NO		EC	1		
3-0298C	D-4	1	C	2.000	CHECK	A	S/A	NO	NO		EC	1		
MOV-3-0381	H-3	2	A	3.000	GATE	A	MO	NO	YES	FAI	SLT-1 TC V	5 4 5		
MOV-3-6386	H-4	2	A	3.000	GATE	A	MO	NO	YES	FAI	SLT-1 TC V	5 4 5		

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SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0741A	D-7	2	B	2.000	GATE	A	MAN	NC	NO		EC EO	3 3		
3-0752A	C-2	2	B	14.000	GATE	A	MAN	NO	NO		EC EO	3 3		
3-0752B	E-2	2	B	14.000	GATE	A	MAN	NO	NO		EC EO	3 3		
3-0753A	C-4	2	C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO	2 2 3		
3-0753B	E-4	2	C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO	2 2 3		
3-2052	A-7	2	C	1.000	CHECK	A	S/A	NC	NO		EO	1		
MOV-3-0750	F-8	1	A	14.000	GATE	A	MO	LC	YES	FAI	SLT-2 TC TO V	5 2 2 5		
MOV-3-0751	F-7	1	A	14.000	GATE	A	MO	LC	YES	FAI	SLT-2 TC TO V	5 2 2 5		
MOV-3-0860A	A-6	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0860B	B-6	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0861A	A-5	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0861B	B-5	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0862A	E-1	2	B	14.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		

2000 1000 500 0

1000 500 0



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P & ID: 5613-M-3050-1 (cont) SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-3-0862B	D-1	2	B	14.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-3-0863A	F-5	2	B	8.000	GATE	A	MO	LC	YES	FAI	TO V	2 5		
MOV-3-0863B	F-5	2	B	8.000	GATE	A	MO	LC	YES	FAI	TO V	2 5		
MOV-3-0872	G-6	2	B	8.000	GATE	P	MO	NC	YES	FAI	V	5		

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SYSTEM: CONTAINMENT PURGE AND PENETRATION CLG

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-2024	H-6	2	A	0.375	GATE	P	MAN	NC	NO		SLT-1	5		
3-2025	A-6	2	A	0.375	GLOBE	P	MAN	NC	NO		SLT-1	5		
3-2026	B-6	2	A	0.375	GLOBE	P	MAN	NC	NO		SLT-1	5		
CV-3-2819	E-7	2	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-2826	E-6	2	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
POV-3-2600	C-6	2	A	48.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		
POV-3-2601	C-7	2	A	48.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		
POV-3-2602	D-6	2	A	54.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		
POV-3-2603	D-7	2	A	54.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		

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SYSTEM: WASTE DISPOSAL LIQUID - RCDT AND PUMPS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-2821	H-6	2	A	3.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-2822	H-5	2	A	3.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4658A	B-6	2	A	1.000	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4658B	B-6	2	A	1.000	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4659A	D-6	2	A	0.750	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4659B	D-6	2	A	0.750	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4668A	G-5	2	A	3.000	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4668B	G-6	2	A	3.000	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		

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P & ID: 5613-M-3062-1

SYSTEM: SAFETY INJECTION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.	NORM	REM	FAIL	EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
3-0874A	C-7	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0874B	F-7	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0874C	F-2	2	C	2.000	CHECK	A	S/A	NC	NO		EO	3		
3-0879A	G-5	2	C	3.000	CHECK	A	S/A	NC	NO		EC EO PEO	3 1 3		
3-0879B	D-4	2	C	3.000	CHECK	A	S/A	NC	NO		EC EO PEO	3 1 3		
3-0893A	F-4	2	C	0.750	CHECK	A	S/A	NC	NO		EO	3		
3-0893B	E-4	2	C	0.750	CHECK	A	S/A	NC	NO		EO	3		
MOV-0878A	D-5	2	B	4.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-0878B	D-5	2	B	4.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-3-0856A	B-1	2	B	2.000	GLOBE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-3-0856B	B-2	2	B	2.000	GLOBE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-3-0864A	B-4	2	B	16.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-3-0864B	B-4	2	B	16.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-3-0866A	D-7	1	B	2.000	GLOBE	A	MO	LC	YES	FAI	TC TO V	2 2 5		

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P & ID: 5613-M-3062-1 (cont) SYSTEM: SAFETY INJECTION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-3-0866B	F-7	1	B	2.000	GLOBE	A	MO	LC	YES	FAI	TC TO V	2 2 5		
MOV-3-0869	E-6	2	B	3.000	GATE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
RV-3-6511	E-8	2	C	0.250	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5613-M-3062-2

SYSTEM: SAFETY INJECTION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-3-0843A	B-6	2	B	4.000	GATE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
MOV-3-0843B	C-6	2	B	4.000	GATE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
RV-3-0857	D-4	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5613-M-3064-1

SYSTEM: SAFETY INJECTION ACCUMULATOR INSIDE CTMT

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0873A	B-2	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0873B	B-2	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0873C	B-2	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0875A	D-8	1	A/C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5		
3-0875B	E-8	1	A/C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5		
3-0875C	E-8	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5		
3-0875D	G-7	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO	1 1		
3-0875E	G-5	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO	1 1		
3-0875F	G-3	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO	1 1		
3-0876A	H-7	1	A/C	8.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 2 5		
3-0876B	G-5	1	A/C	8.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5		

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P & ID: 5613-M-3064-1 (cont) SYSTEM: SAFETY INJECTION ACCUMULATOR INSIDE CTMT

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0876C	G-3	1	A/C	8.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5		
3-0876D	G-5	1	A/C	8.000	CHECK	P	S/A	NC	NO		SLT-2	5		
3-0876E	G-3	1	A/C	8.000	CHECK	P	S/A	NC	NO		SLT-2	5		
3-0945E	C-2	2	A/C	1.000	S/CHK	A	S/A	NC	NO		EC SLT-1	1 5		
CV-3-0850A	F-7	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5		
CV-3-0850B	F-7	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5		
CV-3-0850C	F-5	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5		
CV-3-0850D	F-5	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5		
CV-3-0850E	F-3	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5		
CV-3-0850F	F-3	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5		
CV-3-0851A	C-7	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5		
CV-3-0851B	C-5	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5		
CV-3-0851C	C-3	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5		
CV-3-0852A	F-6	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5		
CV-3-0852B	F-4	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5		
CV-3-0852C	F-2	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5		
CV-3-0853A	C-6	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5		

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P & ID: 5613-M-3064-1 (cont) SYSTEM: SAFETY INJECTION ACCUMULATOR INSIDE CTMT

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-0853B	C-4	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5		
CV-3-0853C	C-2	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5		
MOV-3-0744A	H-3	2	B	10.000	GATE	A	MO	NC	YES	FAI	TC TO V	2 2 5		
MOV-3-0744B	G-3	2	B	10.000	GATE	A	MO	NC	YES	FAI	TC TO V	2 2 5		
MOV-3-0865A	F-6	2	B	10.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-3-0865B	F-4	2	B	10.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-3-0865C	F-2	2	B	10.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
RV-3-0706	G-2	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-0858A	D-6	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-0858B	D-4	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-0858C	D-2	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-0859	A-2	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5613-M-3068-1

SYSTEM: CONTAINMENT SPRAY

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0883M	C-5	2	A	1.000	GLOBE	P	MAN	NC	NO		SLT-1	5		
3-0883N	E-5	2	A	1.000	GLOBE	P	MAN	NC	NO		SLT-1	5		
3-0890A	D-5	2	A/C	6.000	CHECK	A	S/A	NC	NO		EC	5		
											INSP	7	VR-1	
											PEO	7	VR-1	
											SLT-1	5		
3-0890B	G-5	2	A/C	6.000	CHECK	A	S/A	NC	NO		EC	5		
											INSP	7	VR-1	
											PEO	7	VR-1	
											SLT-1	5		
MOV-3-0880A	D-5	2	A	6.000	GATE	A	MO	NC	YES	FAI	SLT-1	5		
											TC	3		
											TO	3		
											V	5		
MOV-3-0880B	G-5	2	A	6.000	GATE	A	MO	NC	YES	FAI	SLT-1	5		
											TC	3		
											TO	3		
											V	5		
RV-3-0871	C-2	2	C	0.750	SAFE	A	SA	NC	NO		S/R	9		

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P & ID: 5613-H-3072-1

SYSTEM: MAIN STEAM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-10-0004	G-6	NC	C	26.000	S/CHK	A	S/A	NO	NO		EC INSP	2 7		NOTE 4
3-10-0005	E-6	NC	C	26.000	S/CHK	A	S/A	NO	NO		EC INSP	2 7		NOTE 4
3-10-0006	B-6	NC	C	26.000	S/CHK	A	S/A	NO	NO		EC INSP	2 7		NOTE 4
CV-3-1606	F-4	2	B	6.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO	2 2 2		
CV-3-1607	D-4	2	B	6.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO	2 2 2		
CV-3-1608	B-4	2	B	6.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO	2 2 2		
MOV-3-1400	F-6	2	B	2.000	GLOBE	A	MO	NC	YES	FAI	TC V	3 5		
MOV-3-1401	D-6	2	B	2.000	GLOBE	A	MO	NC	YES	FAI	TC V	3 5		
MOV-3-1402	B-6	2	B	2.000	GLOBE	A	MO	NC	YES	FAI	TC V	3 5		
POV-3-2604	G-6	2	B/C	26.000	PA/CHK	A	A/O	NO	YES	FAI	TC V	2 5		
POV-3-2605	E-6	2	B/C	26.000	PA/CHK	A	A/O	NO	YES	FAI	TC V	2 5		
POV-3-2606	B-6	2	B/C	26.000	PA/CHK	A	A/O	NO	YES	FAI	TC V	2 5		
RV-3-1400	G-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1401	G-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1402	H-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		

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P & ID: 5613-M-3072-1 (cont) SYSTEM: MAIN STEAM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
RV-3-1403	F-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1405	E-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1406	D-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1407	E-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1408	D-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1410	B-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1411	B-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1412	C-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1413	A-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		

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P & ID: 5613-M-3074-3

SYSTEM: FEEDWATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-20-0137	G-6	2	C	0.500	CHECK	A	S/A	NO	NO		EC	3		
3-20-0237	E-6	2	C	0.500	CHECK	A	S/A	NO	NO		EC	3		
3-20-0337	B-6	2	C	0.500	CHECK	A	S/A	NO	NO		EC	3		
FCV-3-0478	G-4	2	B	14.000	GLOBE	A	A/O	NO	NO	FC	FS TC V	2 2 5		
FCV-3-0479	H-3	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	FS TC V	2 2 5		
FCV-3-0488	D-4	2	B	14.000	GLOBE	A	A/O	NO	NO	FC	FS TC V	2 2 5		
FCV-3-0489	E-3	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	FS TC V	2 2 5		
FCV-3-0498	B-4	2	B	14.000	GLOBE	A	A/O	NO	NO	FC	FS TC V	2 2 5		
FCV-3-0499	C-3	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	FS TC V	2 2 5		

1. The first part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order, and the addresses are given in full. The list is as follows:

Name	Address
Mr. A. B. C.	123 Main St., New York, N. Y.
Mr. D. E. F.	456 Broadway, New York, N. Y.
Mr. G. H. I.	789 Fifth Ave., New York, N. Y.
Mr. J. K. L.	1010 Third St., New York, N. Y.
Mr. M. N. O.	1111 Second St., New York, N. Y.
Mr. P. Q. R.	1212 First St., New York, N. Y.
Mr. S. T. U.	1313 Fourth St., New York, N. Y.
Mr. V. W. X.	1414 Sixth St., New York, N. Y.
Mr. Y. Z. A.	1515 Seventh St., New York, N. Y.
Mr. B. C. D.	1616 Eighth St., New York, N. Y.
Mr. E. F. G.	1717 Ninth St., New York, N. Y.
Mr. H. I. J.	1818 Tenth St., New York, N. Y.
Mr. K. L. M.	1919 Eleventh St., New York, N. Y.
Mr. N. O. P.	2020 Twelfth St., New York, N. Y.
Mr. Q. R. S.	2121 Thirteenth St., New York, N. Y.
Mr. T. U. V.	2222 Fourteenth St., New York, N. Y.
Mr. W. X. Y.	2323 Fifteenth St., New York, N. Y.
Mr. Z. A. B.	2424 Sixteenth St., New York, N. Y.
Mr. C. D. E.	2525 Seventeenth St., New York, N. Y.
Mr. F. G. H.	2626 Eighteenth St., New York, N. Y.
Mr. I. J. K.	2727 Nineteenth St., New York, N. Y.
Mr. L. M. N.	2828 Twentieth St., New York, N. Y.
Mr. O. P. Q.	2929 Twenty-first St., New York, N. Y.
Mr. R. S. T.	3030 Twenty-second St., New York, N. Y.
Mr. U. V. W.	3131 Twenty-third St., New York, N. Y.
Mr. X. Y. Z.	3232 Twenty-fourth St., New York, N. Y.
Mr. A. B. C.	3333 Twenty-fifth St., New York, N. Y.
Mr. D. E. F.	3434 Twenty-sixth St., New York, N. Y.
Mr. G. H. I.	3535 Twenty-seventh St., New York, N. Y.
Mr. J. K. L.	3636 Twenty-eighth St., New York, N. Y.
Mr. M. N. O.	3737 Twenty-ninth St., New York, N. Y.
Mr. P. Q. R.	3838 Thirtieth St., New York, N. Y.
Mr. S. T. U.	3939 Thirty-first St., New York, N. Y.
Mr. V. W. X.	4040 Thirty-second St., New York, N. Y.
Mr. Y. Z. A.	4141 Thirty-third St., New York, N. Y.
Mr. B. C. D.	4242 Thirty-fourth St., New York, N. Y.
Mr. E. F. G.	4343 Thirty-fifth St., New York, N. Y.
Mr. H. I. J.	4444 Thirty-sixth St., New York, N. Y.
Mr. K. L. M.	4545 Thirty-seventh St., New York, N. Y.
Mr. N. O. P.	4646 Thirty-eighth St., New York, N. Y.
Mr. Q. R. S.	4747 Thirty-ninth St., New York, N. Y.
Mr. T. U. V.	4848 Fortieth St., New York, N. Y.
Mr. W. X. Y.	4949 Forty-first St., New York, N. Y.
Mr. Z. A. B.	5050 Forty-second St., New York, N. Y.
Mr. C. D. E.	5151 Forty-third St., New York, N. Y.
Mr. F. G. H.	5252 Forty-fourth St., New York, N. Y.
Mr. I. J. K.	5353 Forty-fifth St., New York, N. Y.
Mr. L. M. N.	5454 Forty-sixth St., New York, N. Y.
Mr. O. P. Q.	5555 Forty-seventh St., New York, N. Y.
Mr. R. S. T.	5656 Forty-eighth St., New York, N. Y.
Mr. U. V. W.	5757 Forty-ninth St., New York, N. Y.
Mr. X. Y. Z.	5858 Fiftieth St., New York, N. Y.
Mr. A. B. C.	5959 Fifty-first St., New York, N. Y.
Mr. D. E. F.	6060 Fifty-second St., New York, N. Y.
Mr. G. H. I.	6161 Fifty-third St., New York, N. Y.
Mr. J. K. L.	6262 Fifty-fourth St., New York, N. Y.
Mr. M. N. O.	6363 Fifty-fifth St., New York, N. Y.
Mr. P. Q. R.	6464 Fifty-sixth St., New York, N. Y.
Mr. S. T. U.	6565 Fifty-seventh St., New York, N. Y.
Mr. V. W. X.	6666 Fifty-eighth St., New York, N. Y.
Mr. Y. Z. A.	6767 Fifty-ninth St., New York, N. Y.
Mr. B. C. D.	6868 Sixtieth St., New York, N. Y.
Mr. E. F. G.	6969 Sixty-first St., New York, N. Y.
Mr. H. I. J.	7070 Sixty-second St., New York, N. Y.
Mr. K. L. M.	7171 Sixty-third St., New York, N. Y.
Mr. N. O. P.	7272 Sixty-fourth St., New York, N. Y.
Mr. Q. R. S.	7373 Sixty-fifth St., New York, N. Y.
Mr. T. U. V.	7474 Sixty-sixth St., New York, N. Y.
Mr. W. X. Y.	7575 Sixty-seventh St., New York, N. Y.
Mr. Z. A. B.	7676 Sixty-eighth St., New York, N. Y.
Mr. C. D. E.	7777 Sixty-ninth St., New York, N. Y.
Mr. F. G. H.	7878 Seventieth St., New York, N. Y.
Mr. I. J. K.	7979 Seventy-first St., New York, N. Y.
Mr. L. M. N.	8080 Seventy-second St., New York, N. Y.
Mr. O. P. Q.	8181 Seventy-third St., New York, N. Y.
Mr. R. S. T.	8282 Seventy-fourth St., New York, N. Y.
Mr. U. V. W.	8383 Seventy-fifth St., New York, N. Y.
Mr. X. Y. Z.	8484 Seventy-sixth St., New York, N. Y.
Mr. A. B. C.	8585 Seventy-seventh St., New York, N. Y.
Mr. D. E. F.	8686 Seventy-eighth St., New York, N. Y.
Mr. G. H. I.	8787 Seventy-ninth St., New York, N. Y.
Mr. J. K. L.	8888 Eightieth St., New York, N. Y.
Mr. M. N. O.	8989 Eighty-first St., New York, N. Y.
Mr. P. Q. R.	9090 Eighty-second St., New York, N. Y.
Mr. S. T. U.	9191 Eighty-third St., New York, N. Y.
Mr. V. W. X.	9292 Eighty-fourth St., New York, N. Y.
Mr. Y. Z. A.	9393 Eighty-fifth St., New York, N. Y.
Mr. B. C. D.	9494 Eighty-sixth St., New York, N. Y.
Mr. E. F. G.	9595 Eighty-seventh St., New York, N. Y.
Mr. H. I. J.	9696 Eighty-eighth St., New York, N. Y.
Mr. K. L. M.	9797 Eighty-ninth St., New York, N. Y.
Mr. N. O. P.	9898 Ninetieth St., New York, N. Y.
Mr. Q. R. S.	9999 One hundredth St., New York, N. Y.



INSERVICE TEST PROGRAM

VALVE TABLES

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P & ID: 5613-M-3074-4

SYSTEM: STEAM GENERATOR BLOWDOWN RECOVERY

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-6275A	G-2	2	B	6.000	GLOBE	A	A/O	NO	YES	FAI	TC V	3 5		
CV-3-6275B	E-2	2	B	6.000	GLOBE	A	A/O	NO	YES	FAI	TC V	3 5		
CV-3-6275C	C-2	2	B	6.000	GLOBE	A	A/O	NO	YES	FAI	TC V	3 5		
SV-3-6275A-1	G-3	2	B	0.750	GLOBE	A	SO	NO	YES	FC	FS TC V	3 3 5		
SV-3-6275B-1	D-3	2	B	0.750	GLOBE	A	SO	NO	YES	FC	FS TC V	3 3 5		
SV-3-6275C-1	B-3	2	B	0.750	GLOBE	A	SO	NO	YES	FC	FS TC V	3 3 5		

INSERVICE TEST PROGRAM

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P & ID: 5613-M-3075-1

SYSTEM: AFW STEAM TO AUX. FEEDWATER PUMP TURBINE

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-10-0083	C-7	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
3-10-0087	F-7	3	C	4.000	CHECK	A	S/A	NC	NO		EO	6		NOTE 1
3-10-0375	G-3	2	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
3-10-0376	E-3	2	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
3-10-0377	C-3	2	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
3-10-0381	G-4	3	C	4.000	CHECK	A	S/A	NC	NO		EC EO	2 3		
3-10-0382	E-4	3	C	4.000	CHECK	A	S/A	NC	NO		EC EO	2 3		
3-10-0383	C-4	3	C	4.000	CHECK	A	S/A	NC	NO		EC EO	2 3		
AFSS-3-0005	B-6	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
MOV-3-1403	G-3	2	B	4.000	GLOBE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
MOV-3-1404	E-3	2	B	4.000	GLOBE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
MOV-3-1405	C-3	2	B	4.000	GLOBE	A	MO	NC	YES	FAI	TC TO V	3 3 5		

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P & ID: 5613-M-3075-2

SYSTEM: AFW - AUXILIARY FEEDWATER TO STM GEN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-20-0140	F-7	2	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
3-20-0240	D-7	2	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
3-20-0340	B-7	2	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
AFPD-3-0010	H-3	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
AFPD-3-0012	E-3	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
AFPD-3-0014	C-3	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
CV-3-2816	F-7	3	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-3-2817	D-7	3	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-3-2818	B-7	3	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-3-2831	G-7	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-3-2832	E-7	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-3-2833	C-7	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		

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P & ID: 5613-M-3094-1

SYSTEM: CONTAINMENT POST-ACCIDENT EVALUATION.

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-11-0003	B-2	2	A/C	1.000	CHECK	A	S/A	NO	NO		EC	1		
											SLT-1	5		
HV-3-0001	H-2	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
HV-3-0002	H-4	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
HV-3-0003	G-2	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
HV-3-0004	G-4	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
PAHM-3-0001A	B-3	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5		
PAHM-3-0001B	B-2	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5		
PAHM-3-0002A	D-4	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5		
PAHM-3-0002B	D-3	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5		
SV-3-2911	A-3	2	A	1.000	GLOBE	A	SO	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
SV-3-2912	B-3	2	A	1.000	GLOBE	A	SO	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
SV-3-2913	A-3	2	A	1.000	GLOBE	A	SO	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		



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P & ID: 5613-M-3101-1

SYSTEM: BREATHING AIR SYSTEM (BA)

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-BA-0201	D-3	2	A/C	2.500	CHECK	A	S/A	NC	NO		EC	1		
											SLT-1	5		
CV-3-6165	D-2	2	A	2.500	GATE	P	A/O	LC	YES		SLT-1	5		
											V	5		

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P & ID: VARIOUS

SYSTEM: TEST CONNECTION

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VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM	REM	FAIL	TEST FREQ	RELIEF REQ.	REMARKS
3-10-0879	2	A		0.375	GLOBE	P	MAN	NC	NO		SLT-1	5	

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INSERVICE TESTING - VALVE TABLES
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NOTES

Pg 55,92 1. Auxiliary Feedwater (AFW) Pump "A" Discharge Check Valve, 20-143, will be exercised closed whenever "A" AFW Pump is lined up to operate in parallel with either of the other AFW Pumps. Auxiliary Feedwater Steam Supply Valve, 3-10-087 will be exercised open whenever AFW Pump "C" is aligned to Train 1.

Pg 60,61 2. Valves 3-70-274 A&B, 3-70-276 A&B, RV-3-210 A&B, RV-3-211 A&B, RV-3-212 A&B, and RV-3-213 A&B are not included within the ISI class boundaries and, as such, are exempt from the inclusive requirements of the Code. These valves will be tested in accordance with Code requirements, except where determined impractical, in which case specific relief from the Code is not required.

Pg 62,63 3. Valves CV-3-2046 A&B, SV-3-2051 A&B, SV-3-3522 A&B are not included within the ISI class boundaries and, as such, are exempt from the inclusive requirements of the Code. These valves have been included in the Program to ensure that inservice testing is adequate to demonstrate their continued operability. These valves will be tested in accordance with Code requirements, except where determined impractical, in which case specific relief from the Code is not required.

These valves will be tested in conjunction with testing of the emergency diesel generators and the associated fuel oil transfer pumps. However, valve stroke time will not be measured. The satisfactory response of the associated diesel generator and the fuel oil transfer pumps will demonstrate valve operability.

INSERVICE TESTING - VALVE TABLES
Turkey Point Nuclear Plant - Unit 3
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NOTES con't

- Pg 88 4. Valves 3-10-004 through 3-10-006 are not included within the ISI class boundaries and, as such, are exempt from the inclusive requirements of the Code. These components have been included in the Program to ensure that inservice testing is adequate to demonstrate their continued operability. These valves will be tested in accordance with Code requirements, except where determined impractical, in which case specific relief from the Code is not required.

These are large stop check valves in the main steam lines leading to the main turbine generator. There is no practical way of verifying closure of these valves by way of a back seat or reverse flow test. Exercising a valve manually using the hand wheel provides some assurance that the disc moves freely within the valve body. Furthermore, the valves are disassembled, inspected, and manually exercised at least once during each 10-year inspection interval.

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Appendix D
Valve Program Tables
Unit 4

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P & ID: 5610-M-3075-1

SYSTEM: AFW - TURBINE DRIVE FOR AFW PUMPS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
AFSS-0003B	D-4	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
AFSS-0003C	F-4	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
MOV-6459A	B-5	3	B	3.000	GATE	A	MO	NO	YES	FAI	TO V	3 5		
MOV-6459B	D-5	3	B	3.000	GATE	A	MO	NO	YES	FAI	TO V	3 5		
MOV-6459C	F-5	3	B	3.000	GATE	A	MO	NO	YES	FAI	TO V	3 5		

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P & ID: 5610-M-3075-2

SYSTEM: AFW - AUX. FEEDWATER SUPPLY TO STM GEN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
20-0143	B-7	3	C	6.000	CHECK	A	S/A	NC	NO		EC EO	6 3		NOTE 1
20-0243	D-7	3	C	6.000	CHECK	A	S/A	NC	NO		EC EO	3 3		
20-0343	G-7	3	C	6.000	CHECK	A	S/A	NC	NO		EC EO	3 3		
AFWU-0013	A-4	3	C	1.000	CHECK	A	S/A	NC	NO		EO	3		
AFWU-0014	D-4	3	C	1.000	CHECK	A	S/A	NC	NO		EO	3		
AFWU-0015	F-4	3	C	1.000	CHECK	A	S/A	NC	NO		EO	3		
AFWU-3-0017	A-6	3	C	2.000	CHECK	A	S/A	NC	NO		INSP PEO	1 3		
RV-6401A	B-4	3	C	1.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-6401B	D-4	3	C	1.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-6401C	F-4	3	C	1.000	SAFE	A	S/A	NC	NO		S/R	9		



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P & ID: 5613-M-3013-7

SYSTEM: INSTRUMENT AIR

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.	NORM	REM	FAIL	EXAM	TEST	RELIEF	REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
3-40-0336	B-3	2	A/C	2.000	CHECK	A	S/A	NO	NO		EC SLT-1	1 5		
3-40-0340A	B-3	2	A/C	2.000	S/CHK	A	S/A	NO	NO		EC SLT-1	1 5		

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P & ID: 5613-M-3018-1

SYSTEM: CONDENSATE STORAGE

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VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST FREQ	RELIEF REQ.	REMARKS
3-20-0401	D-3	3	C	8.000	CHECK	A	S/A	NC	NO	EO	3		

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P & ID: 5613-M-3019-1

SYSTEM: INTAKE COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-50-0311	F-3	3	C	24.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
3-50-0321	D-3	3	C	24.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
3-50-0331	B-3	3	C	24.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
POV-3-4882	B-4	3	B	30.000	BUTFY	A	A/O	NO	YES	FC	FS TC V	3 3 5		
POV-3-4883	F-4	3	B	30.000	BUTFY	A	A/O	NO	YES	FC	FS TC V	3 3 5		

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P & ID: 5613-M-3020-2

SYSTEM: PRIMARY MAKEUP WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-10-0567	D-5	2	A/C	2.000	CHECK	A	S/A	NC	NO		EC SLT-1	1 5		
3-10-0582	D-6	2	A	2.000	GATE	P	MAN	NC	NO		SLT-1	5		



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P & ID: 5613-M-3022-1

SYSTEM: EDG 3A AIR STARTING

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-70-0274A	C-3	NC	C	2.000	CHECK	A	S/A	NC	NO		EC	3		NOTE 2
3-70-0276A	D-3	NC	C	2.000	CHECK	A	S/A	NC	NO		EC	3		NOTE 2
RV-3-0210A	B-4	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0211A	B-4	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0212A	B-3	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0213A	B-3	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2

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P & ID: 5613-M-3022-2

SYSTEM: EDG 3B AIR STARTING

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-70-0274B	C-3	NC	C	2.000	CHECK	A	S/A	NC	NO		EC	3		NOTE 2
3-70-0276B	D-3	NC	C	2.000	CHECK	A	S/A	NC	NO		EC	3		NOTE 2
RV-3-0210B	B-4	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0211B	B-4	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0212B	B-3	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2
RV-3-0213B	B-3	NC	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		NOTE 2

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P & ID: 5613-M-3022-3

SYSTEM: EDG 3A FUEL SYSTEM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-70-0006A	C-5	NC	C	2.000	CHECK	A	S/A	NC	NO		EO	3		
CV-3-2046A	D-6	NC	B	2.000	GLOBE	A	A/O	NC	NO	FC	EO	3		NOTE 3
SV-3-2051A	C-4	NC	B	2.000	GLOBE	A	SO	NC	NO	FC	EO	3		NOTE 3
SV-3-3522A	F-4	NC	B	1.500	GLOBE	A	SO	NC	NO	FC	EO	3		NOTE 3

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P & ID: 5613-M-3022-4

SYSTEM: EDG 3B FUEL SYSTEM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-70-0006B	C-4	NC	C	2.000	CHECK	A	S/A	NC	NO		EO	3		
CV-3-2046B	C-6	NC	B	2.000	GLOBE	A	A/O	NC	NO	FC	EO	3		NOTE 3
SV-3-2051B	C-2	NC	B	2.000	GLOBE	A	SO	NC	NO	FC	EO	3		NOTE 3
SV-3-3522B	E-4	NC	B	1.500	GLOBE	A	SO	NC	NO	FC	EO	3		NOTE 3



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P & ID: 5613-M-3030-1 SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0702A	E-4	3	C	16.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
3-0702B	E-3	3	C	16.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
3-0702C	E-2	3	C	16.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
CWST VAC BKR	C-6	3	C	2.000	CHECK	A	S/A	NC	NO		EC EO	3 3		
RV-3-0707	C-7	3	C	3.000	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5613-M-3030-2

SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.	NORM	REM	FAIL	EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
MOV-3-0749A	F-7	3	B	16.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0749B	F-7	3	B	16.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		

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VALVE TABLES

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P & ID: 5613-M-3030-4

SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-2903	D-3	2	B	10.000	BUTFY	P	A/O	NO	YES	FO	V	5		
CV-3-2904	C-3	2	B	10.000	BUTFY	P	A/O	NO	YES	FO	V	5		
CV-3-2905	B-3	2	B	10.000	BUTFY	P	A/O	NO	YES	FO	V	5		
CV-3-2906	G-3	2	B	10.000	BUTFY	A	A/O	NC	YES	FO	FS TO V	3 3 5		
CV-3-2907	F-3	2	B	10.000	BUTFY	A	A/O	NC	YES	FO	FS TO V	3 3 5		
CV-3-2908	E-3	2	B	10.000	BUTFY	A	A/O	NC	YES	FO	FS TO V	3 3 5		

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P & ID: 5613-M-3030-5

SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0721A	E-6	3	C	1.500	CHECK	A	S/A	NO	NO		EC	1		
3-0721B	A-6	3	C	1.500	CHECK	A	S/A	NO	NO		EC	1		
3-0721C	C-6	3	C	1.500	CHECK	A	S/A	NO	NO		EC	1		
3-0738	D-3	2	C	3.000	CHECK	A	S/A	NC	NO		EC	2		
CV-3-0739	C-2	2	B	3.000	GLOBE	A	A/O	NO	YES	FC	FS TC V	3 3 5		
MOV-3-0626	H-3	2	B	3.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-3-0716A	E-2	3	B	6.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-3-0716B	E-2	2	B	6.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-3-0730	G-3	2	B	6.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-3-1417	B-2	2	B	10.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-3-1418	F-2	2	B	10.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
RV-3-0715	C-3	3	C	3.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-0729	F-7	3	C	3.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1426	E-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1427	E-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1428	C-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1429	A-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1430	D-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-3-1431	B-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		



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P & ID: 5613-M-3032-1

SYSTEM: STEAM GENERATOR BLOWDOWN RECOVERY

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. NORM REM FAIL				EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
MOV-3-1425	D-2	2	B	1.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
MOV-3-1426	C-2	2	B	1.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
MOV-3-1427	B-2	2	B	1.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		

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P & ID: 5613-M-3033-1

SYSTEM: SPENT FUEL POOL COOLING

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. NORM REM FAIL				TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE	EXAM	FREQ REQ.	
3-0911	F-5	3	C	8.000	CHECK	A	S/A	NO	NO		EO	3	
3-0914	E-5	3	C	8.000	CHECK	A	S/A	NO	NO		EO	3	

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P & ID: 5613-M-3036-1

SYSTEM: SAMPLE SYSTEM - NSSS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
CV-3-0951	A-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0953	B-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0955C	D-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0955D	E-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0955E	E-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0956A	A-3	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0956B	B-3	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
CV-3-0956D	E-3	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
SV-3-6427A	C-2	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	

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P & ID: 5613-M-3036-1 (cont) SYSTEM: SAMPLE SYSTEM - NSSS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
SV-3-64278	D-2	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
SV-3-6428	C-3	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		

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P & ID: 5613-M-3041-2

SYSTEM: REACTOR COOLANT (RCS)

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
CV-3-0516	G-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
MOV-3-0535	B-6	1	B	3.000	GATE	A	MO	NO	YES	FAI	TC V	3 5	
MOV-3-0536	C-6	1	B	3.000	GATE	A	MO	NO	YES	FAI	TC V	3 5	
PCV-3-0455C	C-7	1	B	2.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO V	2 2 2 5	
PCV-3-0456	B-7	1	B	2.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO V	2 2 2 5	
RV-3-0551A	B-5	1	C	4.000	SAFE	A	S/A	NC	NO		S/R	8	
RV-3-0551B	C-4	1	C	4.000	SAFE	A	S/A	NC	NO		S/R	8	
RV-3-0551C	C-3	1	C	4.000	SAFE	A	S/A	NC	NO		S/R	8	
SV-3-6318A	E-7	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5	
SV-3-6318B	E-7	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5	
SV-3-6385	G-2	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS SLT-1 TC V	3 5 3 5	
SV-3-6611	F-7	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5	
SV-3-6612	F-6	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5	

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P & ID: 5613-M-3041-3

SYSTEM: RCS - REACTOR COOLANT PUMPS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-0519A	A-8	2	A	3.000	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0519B	A-3	2	A	3.000	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0522A	B-7	2	A	0.750	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0522B	B-7	2	A	0.750	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0522C	C-7	2	A	0.750	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		

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P & ID: 5613-M-3047-1

SYSTEM: CVCS - CHARGING AND LETDOWN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-0200A	A-2	1	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0200B	B-2	1	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0200C	C-2	1	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-0204	C-4	2	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	2 5 2 5		
RV-3-0203	A-3	2	A/C	2.000	SAFE	A	S/A	NC	NO		S/R SLT-1	9 5		

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P & ID: 5613-M-3047-2

SYSTEM: CVCS - CHARGING AND LETDOWN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0312A	C-8	1	C	3.000	CHECK	A	S/A	NO	NO		EO	3		
3-0312B	A-8	1	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
3-0312C	E-7	1	C	3.000	CHECK	A	S/A	NO	NO		EC EO	5 3		
3-0351	F-1	2	C	2.000	CHECK	A	S/A	NC	NO		EO	1		
3-0357	F-3	2	C	4.000	CHECK	A	S/A	NC	NO		EO	2		
CV-3-0310A	C-7	1	B	3.000	GLOBE	A	A/O	NO	YES	FO	FS TO V	3 3 5		
CV-3-0310B	A-7	1	B	3.000	GLOBE	A	A/O	NC	YES	FO	FS TO V	3 3 5		
HCV-3-0121	F-7	2	B	3.000	GLOBE	A	A/O	NO	NO	FO	FS TO	2 2		
LCV-3-0115B	F-4	2	B	4.000	BUTFY	A	A/O	NC	YES	FC	TO V	2 5		
LCV-3-0115C	C-4	2	B	4.000	GATE	A	NO	NO	YES	FAI	TC V	2 5		
MOV-3-0350	F-1	2	B	2.000	GATE	A	NO	NC	YES	FAI	TO V	3 5		
RV-3-0283A	G-5	2	C	0.750	SAFE	A	SA	NC	NO		S/R	9		
RV-3-0283B	E-5	2	C	0.750	SAFE	A	SA	NC	NO		S/R	9		
RV-3-0283C	C-5	2	C	0.750	SAFE	A	SA	NC	NO		S/R	9		

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P & ID: 5613-M-3047-3 SYSTEM: CVCS - SEAL WATER INJECTION TO RCP

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0298A	F-4	1	C	2.000	CHECK	A	S/A	NO	NO		EC	1		
3-0298B	B-4	1	C	2.000	CHECK	A	S/A	NO	NO		EC	1		
3-0298C	D-4	1	C	2.000	CHECK	A	S/A	NO	NO		EC	1		
MOV-3-0381	H-3	2	A	3.000	GATE	A	MO	NO	YES	FAI	SLT-1 TC V	5 4 5		
MOV-3-6386	H-4	2	A	3.000	GATE	A	MO	NO	YES	FAI	SLT-1 TC V	5 4 5		

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P & ID: 5613-M-3050-1

SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0741A	D-7	2	B	2.000	GATE	A	MAN	NC	NO		EC EO	3 3		
3-0752A	C-2	2	B	14.000	GATE	A	MAN	NO	NO		EC EO	3 3		
3-0752B	E-2	2	B	14.000	GATE	A	MAN	NO	NO		EC EO	3 3		
3-0753A	C-4	2	C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO	2 2 3		
3-0753B	E-4	2	C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO	2 2 3		
3-2052	A-7	2	C	1.000	CHECK	A	S/A	NC	NO		EO	1		
MOV-3-0750	F-8	1	A	14.000	GATE	A	MO	LC	YES	FAI	SLT-2 TC TO V	5 2 2 5		
MOV-3-0751	F-7	1	A	14.000	GATE	A	MO	LC	YES	FAI	SLT-2 TC TO V	5 2 2 5		
MOV-3-0860A	A-6	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0860B	B-6	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0861A	A-5	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0861B	B-5	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-3-0862A	E-1	2	B	14.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		

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P & ID: 5613-M-3050-1 (cont) SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-3-0862B	D-1	2	B	14.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-3-0863A	F-5	2	B	8.000	GATE	A	MO	LC	YES	FAI	TO V	2 5		
MOV-3-0863B	F-5	2	B	8.000	GATE	A	MO	LC	YES	FAI	TO V	2 5		
MOV-3-0872	G-6	2	B	8.000	GATE	P	MO	NC	YES	FAI	V	5		

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P & ID: 5613-M-3053-1

SYSTEM: CONTAINMENT PURGE AND PENETRATION CLG

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-2024	H-6	2	A	0.375	GATE	P	MAN	NC	NO		SLT-1	5		
3-2025	A-6	2	A	0.375	GLOBE	P	MAN	NC	NO		SLT-1	5		
3-2026	B-6	2	A	0.375	GLOBE	P	MAN	NC	NO		SLT-1	5		
CV-3-2819	E-7	2	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-2826	E-6	2	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
POV-3-2600	C-6	2	A	48.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		
POV-3-2601	C-7	2	A	48.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		
POV-3-2602	D-6	2	A	54.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		
POV-3-2603	D-7	2	A	54.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		

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P & ID: 5613-M-3061-1

SYSTEM: WASTE DISPOSAL LIQUID - RCDT AND PUMPS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-3-2821	H-6	2	A	3.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-2822	H-5	2	A	3.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4658A	B-6	2	A	1.000	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4658B	B-6	2	A	1.000	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4659A	D-6	2	A	0.750	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4659B	D-6	2	A	0.750	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4668A	G-5	2	A	3.000	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-3-4668B	G-6	2	A	3.000	DIAPH	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		



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SYSTEM: SAFETY INJECTION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0874A	C-7	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0874B	F-7	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0874C	F-2	2	C	2.000	CHECK	A	S/A	NC	NO		EO	3		
3-0879A	G-5	2	C	3.000	CHECK	A	S/A	NC	NO		EC EO PEO	3 1 3		
3-0879B	D-4	2	C	3.000	CHECK	A	S/A	NC	NO		EC EO PEO	3 1 3		
3-0893A	F-4	2	C	0.750	CHECK	A	S/A	NC	NO		EO	3		
3-0893B	E-4	2	C	0.750	CHECK	A	S/A	NC	NO		EO	3		
MOV-0878A	D-5	2	B	4.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-0878B	D-5	2	B	4.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-3-0856A	B-1	2	B	2.000	GLOBE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-3-0856B	B-2	2	B	2.000	GLOBE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-3-0864A	B-4	2	B	16.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-3-0864B	B-4	2	B	16.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-3-0866A	D-7	1	B	2.000	GLOBE	A	MO	LC	YES	FAI	TC TO V	2 2 5		

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P & ID: 5613-H-3062-1 (cont) SYSTEM: SAFETY INJECTION

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VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-3-0866B	F-7	1	B	2.000	GLOBE	A	MO	LC	YES	FAI	TC	2		
											TO	2		
											V	5		
MOV-3-0869	E-6	2	B	3.000	GATE	A	MO	NC	YES	FAI	TC	3		
											TO	3		
											V	5		
RV-3-6511	E-8	2	C	0.250	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5613-M-3062-2

SYSTEM: SAFETY INJECTION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
MOV-3-0843A	B-6	2	B	4.000	GATE	A	MO	NC	YES	FAI	TC	3	
											TO	3	
											V	5	
MOV-3-0843B	C-6	2	B	4.000	GATE	A	MO	NC	YES	FAI	TC	3	
											TO	3	
											V	5	
RV-3-0857	D-4	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9	

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P & ID: 5613-M-3064-1

SYSTEM: SAFETY INJECTION ACCUMULATOR INSIDE CTMT

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-0873A	B-2	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0873B	B-2	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0873C	B-2	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
3-0875A	D-8	1	A/C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5		
3-0875B	E-8	1	A/C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5		
3-0875C	E-8	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5		
3-0875D	G-7	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO	1 1		
3-0875E	G-5	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO	1 1		
3-0875F	G-3	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO	1 1		
3-0876A	H-7	1	A/C	8.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 2 5		
3-0876B	G-5	1	A/C	8.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5		

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P & ID: 5613-M-3064-1 (cont) SYSTEM: SAFETY INJECTION ACCUMULATOR INSIDE CTMT

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
3-0876C	G-3	1	A/C	8.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	7 1 2 5	
3-0876D	G-5	1	A/C	8.000	CHECK	P	S/A	NC	NO		SLT-2	5	
3-0876E	G-3	1	A/C	8.000	CHECK	P	S/A	NC	NO		SLT-2	5	
3-0945E	C-2	2	A/C	1.000	S/CHK	A	S/A	NC	NO		EC SLT-1	1 5	
CV-3-0850A	F-7	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-3-0850B	F-7	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-3-0850C	F-5	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-3-0850D	F-5	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-3-0850E	F-3	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-3-0850F	F-3	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-3-0851A	C-7	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	
CV-3-0851B	C-5	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	
CV-3-0851C	C-3	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	
CV-3-0852A	F-6	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-3-0852B	F-4	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-3-0852C	F-2	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-3-0853A	C-6	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	

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P & ID: 5613-M-3064-1 (cont) SYSTEM: SAFETY INJECTION ACCUMULATOR INSIDE CTMT

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
CV-3-0853B	C-4	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	
CV-3-0853C	C-2	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	
MOV-3-0744A	H-3	2	B	10.000	GATE	A	MO	NC	YES	FAI	TC TO V	2 2 5	
MOV-3-0744B	G-3	2	B	10.000	GATE	A	MO	NC	YES	FAI	TC TO V	2 2 5	
MOV-3-0865A	F-6	2	B	10.000	GATE	A	MO	LO	YES	FAI	TC V	2 5	
MOV-3-0865B	F-4	2	B	10.000	GATE	A	MO	LO	YES	FAI	TC V	2 5	
MOV-3-0865C	F-2	2	B	10.000	GATE	A	MO	LO	YES	FAI	TC V	2 5	
RV-3-0706	G-2	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9	
RV-3-0858A	D-6	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9	
RV-3-0858B	D-4	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9	
RV-3-0858C	D-2	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9	
RV-3-0859	A-2	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9	

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P & ID: 5613-M-3068-1

SYSTEM: CONTAINMENT SPRAY

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
3-0883M	C-5	2	A	1.000	GLOBE	P	MAN	NC	NO		SLT-1	5	
3-0883N	E-5	2	A	1.000	GLOBE	P	MAN	NC	NO		SLT-1	5	
3-0890A	D-5	2	A/C	6.000	CHECK	A	S/A	NC	NO		EC	5	
											INSP	7	VR-1
											PEO	7	VR-1
											SLT-1	5	
3-0890B	G-5	2	A/C	6.000	CHECK	A	S/A	NC	NO		EC	5	
											INSP	7	VR-1
											PEO	7	VR-1
											SLT-1	5	
MOV-3-0880A	D-5	2	A	6.000	GATE	A	MO	NC	YES	FAI	SLT-1	5	
											TC	3	
											TO	3	
											V	5	
MOV-3-0880B	G-5	2	A	6.000	GATE	A	MO	NC	YES	FAI	SLT-1	5	
											TC	3	
											TO	3	
											V	5	
RV-3-0871	C-2	2	C	0.750	SAFE	A	SA	NC	NO		S/R	9	

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P & ID: 5613-M-3072-1

SYSTEM: MAIN STEAM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-10-0004	G-6	NC	C	26.000	S/CHK	A	S/A	NO	NO		EC INSP	2 7		NOTE 4
3-10-0005	E-6	NC	C	26.000	S/CHK	A	S/A	NO	NO		EC INSP	2 7		NOTE 4
3-10-0006	B-6	NC	C	26.000	S/CHK	A	S/A	NO	NO		EC INSP	2 7		NOTE 4
CV-3-1606	F-4	2	B	6.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO	2 2 2		
CV-3-1607	D-4	2	B	6.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO	2 2 2		
CV-3-1608	B-4	2	B	6.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO	2 2 2		
MOV-3-1400	F-6	2	B	2.000	GLOBE	A	MO	NC	YES	FAI	TC V	3 5		
MOV-3-1401	D-6	2	B	2.000	GLOBE	A	MO	NC	YES	FAI	TC V	3 5		
MOV-3-1402	B-6	2	B	2.000	GLOBE	A	MO	NC	YES	FAI	TC V	3 5		
POV-3-2604	G-6	2	B/C	26.000	PA/CHK	A	A/O	NO	YES	FAI	TC V	2 5		
POV-3-2605	E-6	2	B/C	26.000	PA/CHK	A	A/O	NO	YES	FAI	TC V	2 5		
POV-3-2606	B-6	2	B/C	26.000	PA/CHK	A	A/O	NO	YES	FAI	TC V	2 5		
RV-3-1400	G-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1401	G-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1402	H-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		



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P & ID: 5613-M-3072-1 (cont) SYSTEM: MAIN STEAM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
RV-3-1403	F-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1405	E-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1406	D-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1407	E-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1408	D-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1410	B-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1411	B-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1412	C-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-3-1413	A-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		

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P & ID: 5613-M-3074-3

SYSTEM: FEEDWATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-20-0137	G-6	2	C	0.500	CHECK	A	S/A	NO	NO		EC	3		
3-20-0237	E-6	2	C	0.500	CHECK	A	S/A	NO	NO		EC	3		
3-20-0337	B-6	2	C	0.500	CHECK	A	S/A	NO	NO		EC	3		
FCV-3-0478	G-4	2	B	14.000	GLOBE	A	A/O	NO	NO	FC	FS TC V	2 2 5		
FCV-3-0479	H-3	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	FS TC V	2 2 5		
FCV-3-0488	D-4	2	B	14.000	GLOBE	A	A/O	NO	NO	FC	FS TC V	2 2 5		
FCV-3-0489	E-3	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	FS TC V	2 2 5		
FCV-3-0498	B-4	2	B	14.000	GLOBE	A	A/O	NO	NO	FC	FS TC V	2 2 5		
FCV-3-0499	C-3	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	FS TC V	2 2 5		

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P & ID: 5613-M-3074-4

SYSTEM: STEAM GENERATOR BLOWDOWN RECOVERY

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	TYPE	POS.	IND	MODE	EXAM	TEST RELIEF		REMARKS
												FREQ	REQ.	
CV-3-6275A	G-2	2	B	6.000	GLOBE	A	A/O	NO	YES	FAI	TC V	3 5		
CV-3-6275B	E-2	2	B	6.000	GLOBE	A	A/O	NO	YES	FAI	TC V	3 5		
CV-3-6275C	C-2	2	B	6.000	GLOBE	A	A/O	NO	YES	FAI	TC V	3 5		
SV-3-6275A-1	G-3	2	B	0.750	GLOBE	A	SO	NO	YES	FC	FS TC V	3 3 5		
SV-3-6275B-1	D-3	2	B	0.750	GLOBE	A	SO	NO	YES	FC	FS TC V	3 3 5		
SV-3-6275C-1	B-3	2	B	0.750	GLOBE	A	SO	NO	YES	FC	FS TC V	3 3 5		

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P & ID: 5613-M-3075-1

SYSTEM: AFW STEAM TO AUX. FEEDWATER PUMP TURBINE

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
3-10-0083	C-7	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
3-10-0087	F-7	3	C	4.000	CHECK	A	S/A	NC	NO		EO	6		NOTE 1
3-10-0375	G-3	2	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
3-10-0376	E-3	2	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
3-10-0377	C-3	2	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
3-10-0381	G-4	3	C	4.000	CHECK	A	S/A	NC	NO		EC EO	2 3		
3-10-0382	E-4	3	C	4.000	CHECK	A	S/A	NC	NO		EC EO	2 3		
3-10-0383	C-4	3	C	4.000	CHECK	A	S/A	NC	NO		EC EO	2 3		
AFSS-3-0005	B-6	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
MOV-3-1403	G-3	2	B	4.000	GLOBE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
MOV-3-1404	E-3	2	B	4.000	GLOBE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
MOV-3-1405	C-3	2	B	4.000	GLOBE	A	MO	NC	YES	FAI	TC TO V	3 3 5		

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P & ID: 5613-M-3075-2

SYSTEM: AFW - AUXILIARY FEEDWATER TO STM GEN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
3-20-0140	F-7	2	C	4.000	CHECK	A	S/A	NC	NO		EO	3	
3-20-0240	D-7	2	C	4.000	CHECK	A	S/A	NC	NO		EO	3	
3-20-0340	B-7	2	C	4.000	CHECK	A	S/A	NC	NO		EO	3	
AFPD-3-0010	H-3	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3	
AFPD-3-0012	E-3	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3	
AFPD-3-0014	C-3	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3	
CV-3-2816	F-7	3	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3	
CV-3-2817	D-7	3	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3	
CV-3-2818	B-7	3	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3	
CV-3-2831	G-7	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3	
CV-3-2832	E-7	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3	
CV-3-2833	C-7	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3	



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P & ID: 5613-M-3094-1

SYSTEM: CONTAINMENT POST-ACCIDENT EVALUATION.

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
3-11-0003	B-2	2	A/C	1.000	CHECK	A	S/A	NO	NO		EC SLT-1	1 5	
HV-3-0001	H-2	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5	
HV-3-0002	H-4	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5	
HV-3-0003	G-2	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5	
HV-3-0004	G-4	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5	
PAHM-3-0001A	B-3	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5	
PAHM-3-0001B	B-2	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5	
PAHM-3-0002A	D-4	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5	
PAHM-3-0002B	D-3	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5	
SV-3-2911	A-3	2	A	1.000	GLOBE	A	SO	NO	YES	FC	FS SLT-1 TC V	3 5 3 5	
SV-3-2912	B-3	2	A	1.000	GLOBE	A	SO	NO	YES	FC	FS SLT-1 TC V	3 5 3 5	
SV-3-2913	A-3	2	A	1.000	GLOBE	A	SO	NO	YES	FC	FS SLT-1 TC V	3 5 3 5	



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P & ID: 5613-M-3101-1

SYSTEM: BREATHING AIR SYSTEM (BA)

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.	NORM	REM	FAIL	EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
3-BA-0201	D-3	2	A/C	2.500	CHECK	A	S/A	NC	NO		EC	1		
											SLT-1	5		
CV-3-6165	D-2	2	A	2.500	GATE	P	A/O	LC	YES		SLT-1	5		
											V	5		

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P & ID: VARIOUS

SYSTEM: TEST CONNECTION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	TYPE	POS.	IND	MODE	EXAM	FREQ	RELIEF	REQ.	REMARKS
3-10-0879	2	A		0.375	GLOBE	P	MAN	NC	NO		SLT-1	5			

INSERVICE TESTING - VALVE TABLES
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NOTES

- Pg 55,92 1. Auxiliary Feedwater (AFW) Pump "A" Discharge Check Valve, 20-143, will be exercised closed whenever "A" AFW Pump is lined up to operate in parallel with either of the other AFW Pumps. Auxiliary Feedwater Steam Supply Valve, 3-10-087 will be exercised open whenever AFW Pump "C" is aligned to Train 1.
- Pg 60,61 2. Valves 3-70-274 A&B, 3-70-276 A&B, RV-3-210 A&B, RV-3-211 A&B, RV-3-212 A&B, and RV-3-213 A&B are not included within the ISI class boundaries and, as such, are exempt from the inclusive requirements of the Code. These valves will be tested in accordance with Code requirements, except where determined impractical, in which case specific relief from the Code is not required.
- Pg 62,63 3. Valves CV-3-2046 A&B, SV-3-2051 A&B, SV-3-3522 A&B are not included within the ISI class boundaries and, as such, are exempt from the inclusive requirements of the Code. These valves have been included in the Program to ensure that inservice testing is adequate to demonstrate their continued operability. These valves will be tested in accordance with Code requirements, except where determined impractical, in which case specific relief from the Code is not required.

These valves will be tested in conjunction with testing of the emergency diesel generators and the associated fuel oil transfer pumps. However, valve stroke time will not be measured. The satisfactory response of the associated diesel generator and the fuel oil transfer pumps will demonstrate valve operability.

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NOTES con't

- Pg 88 4. Valves 3-10-004 through 3-10-006 are not included within the ISI class boundaries and, as such, are exempt from the inclusive requirements of the Code. These components have been included in the Program to ensure that inservice testing is adequate to demonstrate their continued operability. These valves will be tested in accordance with Code requirements, except where determined impractical, in which case specific relief from the Code is not required.

These are large stop check valves in the main steam lines leading to the main turbine generator. There is no practical way of verifying closure of these valves by way of a back seat or reverse flow test. Exercising a valve manually using the hand wheel provides some assurance that the disc moves freely within the valve body. Furthermore, the valves are disassembled, inspected, and manually exercised at least once during each 10-year inspection interval.

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Appendix D
Valve Program Tables
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P & ID: 5610-M-3013-1

SYSTEM: INSTRUMENT AIR/SERVICE AIR DIST.

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-40-0204	F-6	2	A	2.000	GATE	P	MAN	LC	NO		SLT-1	5		
4-40-0205	F-7	2	A/C	2.000	CHECK	A	S/A	NC	NO		EC	1		
											SLT-1	5		
HV-4-0017	E-6	2	A	2.000	GLOBE	P	MAN	LC	NO		SLT-1	5		

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P & ID: 5610-M-3046-1

SYSTEM: CVCS - BORIC ACID

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST RELIEF		REMARKS
												FREQ	REQ.	
4-0397C	E-5	2	C	2.000	CHECK	A	S/A	NC	NO		EC	3		
											EO	1		
											PEO	3		
4-0397D	F-4	2	C	2.000	CHECK	A	S/A	NC	NO		EC	3		
											EO	1		
											PEO	3		



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P & ID: 5610-M-3065-1

SYSTEM: NITROGEN AND HYDROGEN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-0518	D-7	2	A/C	0.750	CHECK	A	S/A	NC	NO		EC SLT-1	1 5		
4-0519	D-6	2	A/C	0.750	CHECK	A	S/A	NC	NO		EC SLT-1	1 5		
4-4656	C-7	2	A	1.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
CV-4-0855	E-3	2	A	1.000	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
PCV-4-1014	B-6	2	A	1.000	GLOBE	P	A/O	NC	NO	FC	SLT-1	5		

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P & ID: 5610-M-3075-2

SYSTEM: AUX FEEDWATER SUPPLY TO STM GEN

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VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.	NORM	REM	FAIL	EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
AFWJ-4-0016	G-6	3	C	2.000	CHECK	A	S/A	NC	NO		INSP	1		
											PEO	3		

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P & ID: 5614-M-3013-7

SYSTEM: INSTRUMENT AIR

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-40-0336	D-3	2	A/C	2.000	CHECK	A	S/A	NO	NO		EC SLT-1	1 5		
4-40-0340A	C-3	2	A/C	2.000	CHECK	A	S/A	NO	NO		EC SLT-1	1 5		

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P & ID: 5614-M-3018-1

SYSTEM: CONDENSATE STORAGE

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VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. NORM REM FAIL				TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE	EXAM	FREQ	
4-20-0401	E-6	3	C	8.000	CHECK	A	S/A	NC	NO	EO	3		

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P & ID: 5614-M-3019-1

SYSTEM: INTAKE COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-50-0311	F-3	3	C	24.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
4-50-0321	D-3	3	C	24.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
4-50-0331	B-3	3	C	24.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
POV-4-4882	F-4	3	B	30.000	BUTFY	A	A/O	NO	YES	FC	FS TC V	3 3 5		
POV-4-4883	B-4	3	B	30.000	BUTFY	A	A/O	NO	YES	FC	FS TC V	3 3 5		

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P & ID: 5614-M-3020-2

SYSTEM: PRIMARY MAKEUP WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-10-0567	C-5	2	A/C	2.000	CHECK	A	S/A	NC	NO		EC SLT-1	1 5		
4-10-0582	C-6	2	A	2.000	GATE	P	MAN	NC	NO		SLT-1	5		

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P & ID: 5614-M-3022-1

SYSTEM: EMERGENCY DIESEL 4A AIR STARTING

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-70-0530A	D-2	3	C	2.000	CHECK	A	S/A	NC	NO		EC	3		
4-70-0531A	D-3	3	C	2.000	CHECK	A	S/A	NC	NO		EC	3		
RV-4-1456A	B-2	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-1457A	B-3	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-1458A	B-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-1459A	B-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of the names and addresses of the members of the committee.

3. The third part of the document is a list of the names and addresses of the members of the committee.

4. The fourth part of the document is a list of the names and addresses of the members of the committee.

5. The fifth part of the document is a list of the names and addresses of the members of the committee.

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7. The seventh part of the document is a list of the names and addresses of the members of the committee.

8. The eighth part of the document is a list of the names and addresses of the members of the committee.

9. The ninth part of the document is a list of the names and addresses of the members of the committee.

10. The tenth part of the document is a list of the names and addresses of the members of the committee.

11. The eleventh part of the document is a list of the names and addresses of the members of the committee.

12. The twelfth part of the document is a list of the names and addresses of the members of the committee.

13. The thirteenth part of the document is a list of the names and addresses of the members of the committee.

14. The fourteenth part of the document is a list of the names and addresses of the members of the committee.

15. The fifteenth part of the document is a list of the names and addresses of the members of the committee.

16. The sixteenth part of the document is a list of the names and addresses of the members of the committee.

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18. The eighteenth part of the document is a list of the names and addresses of the members of the committee.

19. The nineteenth part of the document is a list of the names and addresses of the members of the committee.

20. The twentieth part of the document is a list of the names and addresses of the members of the committee.

21. The twenty-first part of the document is a list of the names and addresses of the members of the committee.

22. The twenty-second part of the document is a list of the names and addresses of the members of the committee.

23. The twenty-third part of the document is a list of the names and addresses of the members of the committee.

24. The twenty-fourth part of the document is a list of the names and addresses of the members of the committee.

25. The twenty-fifth part of the document is a list of the names and addresses of the members of the committee.

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P & ID: 5614-M-3022-2

SYSTEM: EMERGENCY DIESEL 4B AIR STARTING

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
4-70-0530B	D-2	3	C	2.000	CHECK	A	S/A	NC	NO		EC	3	
4-70-0531B	D-3	3	C	2.000	CHECK	A	S/A	NC	NO		EC	3	
RV-4-1456B	B-2	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9	
RV-4-1457B	B-3	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9	
RV-4-1458B	B-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9	
RV-4-1459B	B-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9	

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P & ID: 5614-M-3022-3

SYSTEM: EDG 4A FUEL SYSTEM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-70-0349A	C-7	3	C	2.000	CHECK	A	S/A	NC	NO		EO	3		
RV-4-1450A	B-6	3	C	1.000	SAFE	A	S/A	NC	NO		S/R	9		
SV-4-3434A	F-5	3	B	1.500	GATE	A	SO	NC	NO	FC	TO	3		

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P & ID: 5614-M-3022-4

SYSTEM: EDG 4B FUEL SYSTEM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-70-0349B	C-7	3	C	2.000	CHECK	A	S/A	NC	NO		EO	3		
RV-4-1450B	B-6	3	C	1.000	SAFE	A	S/A	NC	NO		S/R	9		
SV-4-3434B	D-7	3	B	1.500	GATE	A	SO	NC	NO	FC	TO	3		

1. The first part of the document is a list of names and addresses. The names are: John Doe, Jane Doe, and John Doe. The addresses are: 123 Main St, 456 Main St, and 789 Main St.



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P & ID: 5614-M-3022-5

SYSTEM: EDG 4A LUBE OIL AND COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. NORM REM FAIL				TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE	EXAM	FREQ	
RV-4-1451A	E-4	3	C	1.000	SAFE	A	S/A	NC	NO	S/R	9		

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P & ID: 5614-M-3022-6

SYSTEM: EDG 4B LUBE OIL AND COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
RV-4-1451B	E-4	3	C	1.000	SAFE	A	S/A	NC	NO		S/R	9		

1. The first part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order, and the addresses are listed below each name. The list includes the names of the members of the committee, the names of the members of the subcommittee, and the names of the members of the advisory committee. The addresses are listed in the same order as the names.



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P & ID: 5614-M-3030-1

SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-0702A	E-4	3	C	16.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
4-0702B	E-3	3	C	16.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
4-0702C	E-2	3	C	16.000	CHECK	A	S/A	NO	NO		EC EO	3 3		
CWST VAC BKR	C-6	3	C	2.000	CHECK	A	S/A	NC	NO		EC EO	3 3		
RV-4-0707	C-7	3	C	3.000	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5614-M-3030-2

SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.	NORM	REM	FAIL	EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
MOV-4-0749A	F-6	3	B	16.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-4-0749B	F-7	3	B	16.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		

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P & ID: 5614-M-3030-3 SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-4-2903	D-3	2	B	10.000	BUTFY	P	A/O	NO	YES	FO	V	5		
CV-4-2904	C-3	2	B	10.000	BUTFY	P	A/O	NO	YES	FO	V	5		
CV-4-2905	B-3	2	B	10.000	BUTFY	P	A/O	NO	YES	FO	V	5		
CV-4-2906	G-3	2	B	10.000	BUTFY	A	A/O	NC	YES	FO	FS TO V	3 3 5		
CV-4-2907	F-3	2	B	10.000	BUTFY	A	A/O	NC	YES	FO	FS TO V	3 3 5		
CV-4-2908	E-3	2	B	10.000	BUTFY	A	A/O	NC	YES	FO	FS TO V	3 3 5		



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P & ID: 5614-M-3030-4 SYSTEM: COMPONENT COOLING WATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-0721A	E-6	3	C	1.500	CHECK	A	S/A	NO	NO		EC	1		
4-0721B	B-6	3	C	1.500	CHECK	A	S/A	NO	NO		EC	1		
4-0721C	D-6	3	C	1.500	CHECK	A	S/A	NO	NO		EC	1		
4-0738	D-3	2	C	3.000	CHECK	A	S/A	NC	NO		EC	2		
CV-4-0739	C-2	2	B	3.000	GLOBE	A	A/O	NO	YES	FC	FS TC V	3 3 5		
MOV-4-0626	H-3	2	B	3.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-4-0716A	E-2	3	B	6.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-4-0716B	E-2	2	B	6.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-4-0730	G-3	2	B	6.000	GATE	A	MO	NO	YES	FAI	TC V	4 5		
MOV-4-1417	B-2	2	B	10.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-4-1418	F-2	2	B	10.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
RV-4-0715	C-3	3	C	3.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-0729	F-7	3	C	3.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-1426	E-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-1427	D-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-1428	B-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-1429	A-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-1430	D-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-1431	C-4	3	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5614-M-3032-1

SYSTEM: STEAM GENERATOR BLOWDOWN RECOVERY

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-4-1425	D-2	2	B	1.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
MOV-4-1426	C-2	2	B	1.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
MOV-4-1427	A-2	2	B	1.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		

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P & ID: 5614-M-3033-1

SYSTEM: SPENT FUEL POOL COOLING

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-0911	F-5	3	C	8.000	CHECK	A	S/A	NO	NO		EO	3		
4-0914	E-5	3	C	8.000	CHECK	A	S/A	NO	NO		EO	3		

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SYSTEM: SAMPLE SYSTEM - NSSS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.	NORM	REM	FAIL	EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
CV-4-0951	A-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-0953	B-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-0955C	D-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-0955D	E-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-0955E	E-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-0956A	A-3	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-0956B	B-3	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-0956D	E-3	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
SV-4-6427A	C-2	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		

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P & ID: 5614-M-3036-1 (cont) SYSTEM: SAMPLE SYSTEM - NSSS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	TYPE	POS.	IND	MODE	EXAM	TEST RELIEF		REMARKS
												FREQ	REQ.	
SV-4-6427B	C-2	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
SV-4-6428	C-3	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		

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P & ID: 5614-M-3041-2

SYSTEM: REACTOR COOLANT (RCS)

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-4-0516	G-2	2	A	0.375	GLOBE	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
MOV-4-0535	B-6	1	B	3.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
MOV-4-0536	C-6	1	B	3.000	GATE	A	MO	NO	YES	FAI	TC V	3 5		
PCV-4-0455C	C-7	1	B	2.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO V	2 2 2 5		
PCV-4-0456	B-7	1	B	2.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO V	2 2 2 5		
RV-4-0551A	B-5	1	C	4.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-0551B	B-4	1	C	4.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-0551C	B-3	1	C	4.000	SAFE	A	S/A	NC	NO		S/R	8		
SV-4-6318A	D-6	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5		
SV-4-6318B	E-6	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5		
SV-4-6385	G-2	2	A	0.375	GLOBE	A	SO	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
SV-4-6611	F-7	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5		
SV-4-6612	F-6	2	B	1.000	GLOBE	A	SO	LC	YES	FC	TO V	4 5		

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P & ID: 5614-M-3041-3

SYSTEM: RCS - REACTOR COOLANT PUMPS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-4-0519A	A-8	2	A	3.000	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-4-0519B	A-2	2	A	3.000	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-4-0522A	B-7	2	A	0.750	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-4-0522B	B-7	2	A	0.750	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-4-0522C	B-7	2	A	0.750	DIAPH	A	A/O	NC	YES	FC	FS SLT-1 TC V	3 5 3 5		

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud.

2. The second part of the document outlines the specific procedures for recording transactions. It details the steps involved in the accounting process, from the initial entry of data into the system to the final review and approval of the records.

3. The third part of the document addresses the challenges associated with maintaining accurate records. It identifies common sources of error and provides strategies for minimizing these errors, such as implementing strict controls and regular audits.

4. The fourth part of the document discusses the role of technology in improving record-keeping. It highlights the benefits of using automated systems to process transactions and generate reports, and provides examples of how these systems can be implemented effectively.

5. The fifth part of the document concludes by emphasizing the importance of ongoing training and education for all personnel involved in the record-keeping process. It stresses that continuous learning is necessary to stay up-to-date on the latest best practices and to ensure the highest quality of the records.



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P & ID: 5614-M-3047-1

SYSTEM: CVCS - CHARGING AND LETDOWN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-4-0200A	A-2	1	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-4-0200B	B-2	1	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-4-0200C	C-2	1	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-4-0204	C-4	2	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	2 5 2 5		
RV-4-0203	A-3	2	A/C	2.000	SAFE	A	S/A	NC	NO		S/R SLT-1	9 5		

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P & ID: 5614-M-3047-2

SYSTEM: CVCS - CHARGING AND LETDOWN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-0312A	C-8	1	C	3.000	CHECK	A	S/A	NO	NO		EO	3		
4-0312B	A-7	1	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
4-0312C	E-7	1	C	3.000	CHECK	A	S/A	NO	NO		EC EO	5 3		
4-0351	F-2	2	C	2.000	CHECK	A	S/A	NC	NO		EO	1		
4-0357	F-3	2	C	4.000	CHECK	A	S/A	NC	NO		EO	2		
CV-4-0310A	C-7	1	B	3.000	GLOBE	A	A/O	NO	YES	FO	FS TO V	3 3 5		
CV-4-0310B	A-7	1	B	3.000	GLOBE	A	A/O	NC	YES	FO	FS TO V	3 3 5		
HCV-4-0121	F-7	2	B	3.000	GLOBE	A	A/O	NO	NO	FO	FS TO	2 2		
LCV-4-0115B	F-4	2	B	4.000	BUTFY	A	A/O	NC	YES	FC	TO V	2 5		
LCV-4-0115C	C-4	2	B	4.000	GATE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-4-0350	F-1	2	B	2.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
RV-4-0283A	G-5	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-0283B	E-5	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-0283C	C-5	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		



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P & ID: 5614-M-3047-3 SYSTEM: CVCS - SEAL WATER INJECTION TO RCP

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. NORM REM FAIL				EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
4-0298A	F-4	1	C	2.000	CHECK	A	S/A	NO	NO		EC	1		
4-0298B	D-4	1	C	2.000	CHECK	A	S/A	NO	NO		EC	1		
4-0298C	B-4	1	C	2.000	CHECK	A	S/A	NO	NO		EC	1		
MOV-4-0381	H-2	2	A	3.000	GATE	A	MO	NO	YES	FAI	SLT-1 TC V	5 4 5		
MOV-4-6386	H-4	2	A	3.000	GATE	A	MO	NO	YES	FAI	SLT-1 TC V	5 4 5		

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P & ID: 5614-M-3050-1

SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-0741A	D-7	2	B	2.000	GATE	A	MAN	NC	NO		EC EO	3 3		
4-0752A	C-2	2	B	14.000	GATE	A	MAN	NO	NO		EC EO	3 3		
4-0752B	E-2	2	B	14.000	GATE	A	MAN	NO	NO		EC EO	3 3		
4-0753A	E-4	2	C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO	2 2 3		
4-0753B	E-4	2	C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO	2 2 3		
4-2052	A-7	2	C	1.000	CHECK	A	S/A	NC	NO		EO	1		
MOV-4-0750	F-8	1	A	14.000	GATE	A	MO	LC	YES	FAI	SLT-2 TC TO V	5 2 2 5		
MOV-4-0751	F-7	1	A	14.000	GATE	A	MO	LC	YES	FAI	SLT-2 TC TO V	5 2 2 5		
MOV-4-0860A	A-6	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-4-0860B	B-6	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-4-0861A	A-5	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-4-0861B	B-5	2	B	14.000	GATE	A	MO	NC	YES	FAI	TO V	3 5		
MOV-4-0862A	E-1	2	B	14.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		

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P & ID: 5614-M-3050-1 (cont) SYSTEM: RESIDUAL HEAT REMOVAL

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-4-0862B	D-1	2	B	14.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-4-0863A	F-5	2	B	8.000	GATE	A	MO	LC	YES	FAI	TO V	2 5		
MOV-4-0863B	F-5	2	B	8.000	GATE	A	MO	LC	YES	FAI	TO V	2 5		
MOV-4-0872	G-6	2	B	8.000	GATE	P	MO	NC	YES	FAI	V	5		

1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them. The list includes names such as "John A. Smith", "John B. Smith", "John C. Smith", "John D. Smith", "John E. Smith", "John F. Smith", "John G. Smith", "John H. Smith", "John I. Smith", "John J. Smith", "John K. Smith", "John L. Smith", "John M. Smith", "John N. Smith", "John O. Smith", "John P. Smith", "John Q. Smith", "John R. Smith", "John S. Smith", "John T. Smith", "John U. Smith", "John V. Smith", "John W. Smith", "John X. Smith", "John Y. Smith", and "John Z. Smith".



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P & ID: 5614-M-3053-1

SYSTEM: CONTAINMENT PURGE AND PENETRATION CLG

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-2024	H-3	2	A	0.375	GATE	P	MAN	NC	NO		SLT-1	5		
4-2025	A-3	2	A	0.375	GLOBE	P	MAN	NC	NO		SLT-1	5		
4-2026	B-3	2	A	0.375	GLOBE	P	MAN	NC	NO		SLT-1	5		
CV-4-2819	F-2	2	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
CV-4-2826	F-3	2	A	2.000	GLOBE	A	A/O	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
POV-4-2600	B-3	2	A	48.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		
POV-4-2601	B-2	2	A	48.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		
POV-4-2602	D-3	2	A	54.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		
POV-4-2603	D-2	2	A	54.000	BUTFY	A	A/O	NC	YES	FC	FS SLT-1 TC V	2 5 2 5		

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P & ID: 5614-M-3061-1

SYSTEM: WASTE DISPOSAL - LIQUID - RCDT AND PUMPS

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.	NORM	REM	FAIL	EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	IND	MODE		FREQ	REQ.	
CV-4-2821	H-6	2	A	3.000	GLOBE	A	A/O	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-2822	H-5	2	A	3.000	GLOBE	A	A/O	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-4658A	B-6	2	A	1.000	DIAPH	A	A/O	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-4658B	B-7	2	A	1.000	DIAPH	A	A/O	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-4659A	D-6	2	A	0.750	DIAPH	A	A/O	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-4659B	D-7	2	A	0.750	DIAPH	A	A/O	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-4668A	G-5	2	A	3.000	DIAPH	A	A/O	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		
CV-4-4668B	G-6	2	A	3.000	DIAPH	A	A/O	NO	YES	FC	FS	3		
											SLT-1	5		
											TC	3		
											V	5		

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P & ID: 5614-M-3062-1

SYSTEM: SAFETY INJECTION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-0874A	C-7	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
4-0874B	F-7	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
4-0874C	F-2	2	C	2.000	CHECK	A	S/A	NC	NO		EO	3		
4-0879C	E-4	2	C	3.000	CHECK	A	S/A	NC	NO		EC EO PEO	3 1 3		
4-0879D	G-5	2	C	3.000	CHECK	A	S/A	NC	NO		EC EO PEO	3 1 3		
4-0893C	E-4	2	C	0.750	CHECK	A	S/A	NC	NO		EO	3		
4-0893D	F-4	2	C	0.750	CHECK	A	S/A	NC	NO		EO	3		
MOV-4-0856A	B-1	2	B	2.000	GLOBE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-4-0856B	B-1	2	B	2.000	GLOBE	A	MO	NO	YES	FAI	TC V	2 5		
MOV-4-0864A	B-4	2	B	16.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-4-0864B	B-4	2	B	16.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-4-0866A	C-7	1	B	2.000	GLOBE	A	MO	LC	YES	FAI	TC TO V	2 2 5		
MOV-4-0866B	F-7	1	B	2.000	GLOBE	A	MO	LC	YES	FAI	TC TO V	2 2 5		
MOV-4-0869	E-6	2	B	3.000	GATE	A	MO	NC	YES	FAI	TC TO V	3 3 5		

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P & ID: 5614-M-3062-1 (cont) SYSTEM: SAFETY INJECTION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
RV-4-6511	F-7	2	C	0.250	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5614-M-3062-2 SYSTEM: SAFETY INJECTION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
MOV-4-0843A	B-6	2	B	4.000	GATE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
MOV-4-0843B	C-6	2	B	4.000	GATE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
RV-4-0857	D-4	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		

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P & ID: 5614-M-3064-1

SYSTEM: SAFETY INJECTION ACCUMULATOR INSIDE CTMT

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST RELIEF		REMARKS
												FREQ	REQ.	
4-0873A	B-2	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
4-0873B	B-2	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
4-0873C	B-2	1	A/C	2.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	7 1 5	VR-2	
4-0875A	D-8	1	A/C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	2 1 2 5		
4-0875B	E-8	1	A/C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	2 1 2 5		
4-0875C	E-8	1	A/C	10.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	2 1 2 5		
4-0875D	G-7	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO	1 1		
4-0875E	G-5	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO	1 1		
4-0875F	G-3	1	C	10.000	CHECK	A	S/A	NC	NO		EC EO	1 1		
4-0876A	H-7	1	A/C	8.000	CHECK	A	S/A	NC	NO		EC EO SLT-2	2 2 5		
4-0876B	G-5	1	A/C	8.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	2 1 2 5		

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P & ID: 5614-M-3064-1 (cont) SYSTEM: SAFETY INJECTION ACCUMULATOR INSIDE CTMT

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	TEST EXAM	RELIEF FREQ	REMARKS
4-0876C	G-3	1	A/C	8.000	CHECK	A	S/A	NC	NO		EC EO PEO SLT-2	2 1 2 5	
4-0876D	G-5	1	A/C	8.000	CHECK	P	S/A	NC	NO		SLT-2	5	
4-0876E	G-6	1	A/C	8.000	CHECK	P	S/A	NC	NO		SLT-2	5	
4-0945E	B-2	2	A/C	1.000	CHECK	A	S/A	NC	NO		EC SLT-1	1 5	
CV-4-0850A	F-7	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-4-0850B	F-7	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-4-0850C	F-5	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-4-0850D	F-5	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-4-0850E	F-3	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-4-0850F	F-3	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-4-0851A	C-7	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	
CV-4-0851B	C-5	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	
CV-4-0851C	C-3	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	
CV-4-0852A	F-6	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-4-0852B	F-4	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-4-0852C	F-2	2	B	0.750	GLOBE	P	A/O	NC	YES	FC	V	5	
CV-4-0853A	C-6	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5	

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P & ID: 5614-M-3064-1 (cont) SYSTEM: SAFETY INJECTION ACCUMULATOR INSIDE CTMT

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-4-0853B	C-4	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5		
CV-4-0853C	C-2	2	B	1.000	GLOBE	A	A/O	NC	YES	FC	FS TC V	3 3 5		
MOV-4-0744A	H-3	2	B	10.000	GATE	A	MO	NC	YES	FAI	TC TO V	2 2 5		
MOV-4-0744B	G-3	2	B	10.000	GATE	A	MO	NC	YES	FAI	TC TO V	2 2 5		
MOV-4-0865A	F-6	2	B	10.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-4-0865B	F-4	2	B	10.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
MOV-4-0865C	F-2	2	B	10.000	GATE	A	MO	LO	YES	FAI	TC V	2 5		
RV-4-0706	G-2	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-0858A	D-6	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-0858B	D-4	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-0858C	D-2	2	C	2.000	SAFE	A	S/A	NC	NO		S/R	9		
RV-4-0859	A-2	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		

INSERVICE TEST PROGRAM

VALVE TABLES

Turkey Point Nuclear Plant - Unit 4

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P & ID: 5614-M-3068-1

SYSTEM: CONTAINMENT SPRAY

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-0883M	C-5	2	A	1.000	GLOBE	P	MAN	NC	NO		SLT-1	5		
4-0883N	D-5	2	A	1.000	GLOBE	P	MAN	NC	NO		SLT-1	5		
4-0890A	C-6	2	A/C	6.000	CHECK	A	S/A	NC	NO		EC	5		
											INSP	7	VR-1	
											PEO	7	VR-1	
											SLT-1	5		
4-0890B	F-6	2	A/C	6.000	CHECK	A	S/A	NC	NO		EC	5		
											INSP	7	VR-1	
											PEO	7	VR-1	
											SLT-1	5		
MOV-4-0880A	C-4	2	A	6.000	GATE	A	MO	NC	YES	FAI	SLT-1	5		
											TC	3		
											TO	3		
											V	5		
MOV-4-0880B	F-4	2	A	6.000	GATE	A	MO	NC	YES	FAI	SLT-1	5		
											TC	3		
											TO	3		
											V	5		
RV-4-0871	G-2	2	C	0.750	SAFE	A	S/A	NC	NO		S/R	9		

INSERVICE TEST PROGRAM

VALVE TABLES

Turkey Point Nuclear Plant - Unit 4

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P & ID: 5614-M-3072-1

SYSTEM: MAIN STEAM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-10-0004	G-7	NC	C	26.000	S/CHK	A	S/A	NO	NO		EC INSP	2 7		NOTE 1
4-10-0005	D-7	NC	C	26.000	S/CHK	A	S/A	NO	NO		EC INSP	2 7		NOTE 1
4-10-0006	B-7	NC	C	26.000	S/CHK	A	S/A	NO	NO		EC INSP	2 7		NOTE 1
CV-4-1606	F-4	2	B	6.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO	2 2 2		
CV-4-1607	D-4	2	B	6.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO	2 2 2		
CV-4-1608	B-4	2	B	6.000	GLOBE	A	A/O	NC	YES	FC	FS TC TO	2 2 2		
MOV-4-1400	F-6	2	B	2.000	GLOBE	A	MO	NC	YES	FAI	TC V	3 5		
MOV-4-1401	D-6	2	B	2.000	GLOBE	A	MO	NC	YES	FAI	TC V	3 5		
MOV-4-1402	B-6	2	B	2.000	GLOBE	A	MO	NC	YES	FAI	TC V	3 5		
POV-4-2604	G-6	2	B/C	26.000	PA/CHK	A	A/O	NO	YES	FAI	TC V	2 5		
POV-4-2605	D-6	2	B/C	26.000	PA/CHK	A	A/O	NO	YES	FAI	TC V	2 5		
POV-4-2606	B-6	2	B/C	26.000	PA/CHK	A	A/O	NO	YES	FAI	TC V	2 5		
RV-4-1400	G-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1401	G-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1402	H-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		

INSERVICE TEST PROGRAM

VALVE TABLES

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P & ID: 5614-M-3072-1 (cont) SYSTEM: MAIN STEAM

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
RV-4-1403	F-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1405	E-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1406	D-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1407	E-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1408	D-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1410	B-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1411	B-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1412	C-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		
RV-4-1413	A-5	2	C	6.000	SAFE	A	S/A	NC	NO		S/R	8		

INSERVICE TEST PROGRAM

VALVE TABLES

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P & ID: 5614-M-3074-3

SYSTEM: FEEDWATER

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-20-0137	G-6	2	C	0.500	CHECK	A	S/A	NO	NO		EC	3		
4-20-0237	E-6	2	C	0.500	CHECK	A	S/A	NO	NO		EC	3		
4-20-0337	B-6	2	C	0.500	CHECK	A	S/A	NO	NO		EC	3		
FCV-4-0478	G-4	2	B	14.000	GLOBE	A	A/O	NO	NO	FC	FS TC V	2 2 5		
FCV-4-0479	H-3	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	FS TC V	2 2 5		
FCV-4-0488	D-4	2	B	14.000	GLOBE	A	A/O	NO	NO	FC	FS TC V	2 2 5		
FCV-4-0489	E-3	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	FS TC V	2 2 5		
FCV-4-0498	B-4	2	B	14.000	GLOBE	A	A/O	NO	NO	FC	FS TC V	2 2 5		
FCV-4-0499	C-3	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	FS TC V	2 2 5		

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INSERVICE TEST PROGRAM

VALVE TABLES

Turkey Point Nuclear Plant - Unit 4

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P & ID: 5614-M-3074-4

SYSTEM: STEAM GEN BLOWDOWN RECOVERY

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
CV-4-6275A	G-2	2	B	6.000	GLOBE	A	A/O	NO	YES	FAI	TC V	3 5		
CV-4-6275B	E-2	2	B	6.000	GLOBE	A	A/O	NO	YES	FAI	TC V	3 5		
CV-4-6275C	C-2	2	B	6.000	GLOBE	A	A/O	NO	YES	FAI	TC V	3 5		
SV-4-6275A-1	F-3	2	B	0.750	GLOBE	A	SO	NO	YES	FC	FS TC V	3 3 5		
SV-4-6275B-1	D-3	2	B	0.750	GLOBE	A	SO	NO	YES	FC	FS TC V	3 3 5		
SV-4-6275C-1	B-3	2	B	0.750	GLOBE	A	SO	NO	YES	FC	FS TC V	3 3 5		

INSERVICE TEST PROGRAM
VALVE TABLES
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P & ID: 5614-M-3075-1

SYSTEM: AFW-STEAM TO AUX. FEEDWATER PUMP TURBINE

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-10-0083	A-7	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
4-10-0087	D-7	3	C	4.000	CHECK	A	S/A	NC	NO		EO	6		NOTE 2
4-10-0375	F-3	2	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
4-10-0376	D-3	2	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
4-10-0377	B-3	2	C	3.000	CHECK	A	S/A	NC	NO		EO	3		
4-10-0381	F-4	3	C	4.000	CHECK	A	S/A	NC	NO		EC EO	2 3		
4-10-0382	D-4	3	C	4.000	CHECK	A	S/A	NC	NO		EC EO	2 3		
4-10-0383	B-4	3	C	4.000	CHECK	A	S/A	NC	NO		EC EO	2 3		
AFSS-4-0005	F-5	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
MOV-4-1403	F-3	2	B	3.000	GATE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
MOV-4-1404	D-3	2	B	3.000	GATE	A	MO	NC	YES	FAI	TC TO V	3 3 5		
MOV-4-1405	B-3	2	B	3.000	GATE	A	MO	NC	YES	FAI	TC TO V	3 3 5		

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P & ID: 5614-M-3075-2

SYSTEM: AFW - AUXILIARY FEEDWATER TO STM GEN

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-20-0140	F-7	2	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
4-20-0240	D-7	2	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
4-20-0340	B-7	2	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
AFPD-4-0009	H-3	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
AFPD-4-0011	E-3	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
AFPD-4-0013	C-3	3	C	4.000	CHECK	A	S/A	NC	NO		EO	3		
CV-4-2816	F-7	3	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-4-2817	D-7	3	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-4-2818	B-7	3	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-4-2831	G-7	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-4-2832	E-7	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		
CV-4-2833	C-7	2	B	4.000	GLOBE	A	A/O	NC	NO	FC	TO	3		

INSERVICE TEST PROGRAM
VALVE TABLES
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P & ID: 5614-M-3094-1 SYSTEM: CONTAINMENT POST-ACCIDENT EVALUATION

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-11-0003	B-2	2	A/C	1.000	CHECK	A	S/A	NO	NO		EC SLT-1	1 5		
HV-4-0001	H-2	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
HV-4-0002	H-4	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
HV-4-0003	G-2	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
HV-4-0004	G-4	2	A	2.000	DIAPH	P	MAN	LC	NO		SLT-1	5		
PAHM-4-0001A	B-2	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5		
PAHM-4-0001B	B-3	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5		
PAHM-4-0002A	D-4	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5		
PAHM-4-0002B	D-3	2	A	0.750	GLOBE	P	MAN	NC	NO		SLT-1	5		
SV-4-2911	A-3	2	A	1.000	GLOBE	A	SO	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
SV-4-2912	B-3	2	A	1.000	GLOBE	A	SO	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		
SV-4-2913	A-3	2	A	1.000	GLOBE	A	SO	NO	YES	FC	FS SLT-1 TC V	3 5 3 5		

INSERVICE TEST PROGRAM

VALVE TABLES

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P & ID: 5614-M-3101-1

SYSTEM: BREATHING AIR SYSTEM (BA)

VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT.			IND	MODE	EXAM	TEST RELIEF		REMARKS
							TYPE	POS.	REM				FREQ	REQ.	
4-BA-0201	D-3	2	A/C	2.500	CHECK	A	S/A	NC	NO			EC	1		
												SLT-1	5		
CV-4-6165	D-2	2	A	2.500	GATE	P	A/O	LC	YES	FAI		SLT-1	5		
												V	5		

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INSERVICE TEST PROGRAM

VALVE TABLES

Turkey Point Nuclear Plant - Unit 4

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P & ID: VARIOUS

SYSTEM: TEST CONNECTION

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VALVE NUMBER	COORD.	CL	CAT.	SIZE	TYPE	A/P	ACT. TYPE	NORM POS.	REM IND	FAIL MODE	EXAM	TEST FREQ	RELIEF REQ.	REMARKS
4-10-0879		2	A	0.375	GLOBE	P	MAN	NC	NO		SLT-1	5		



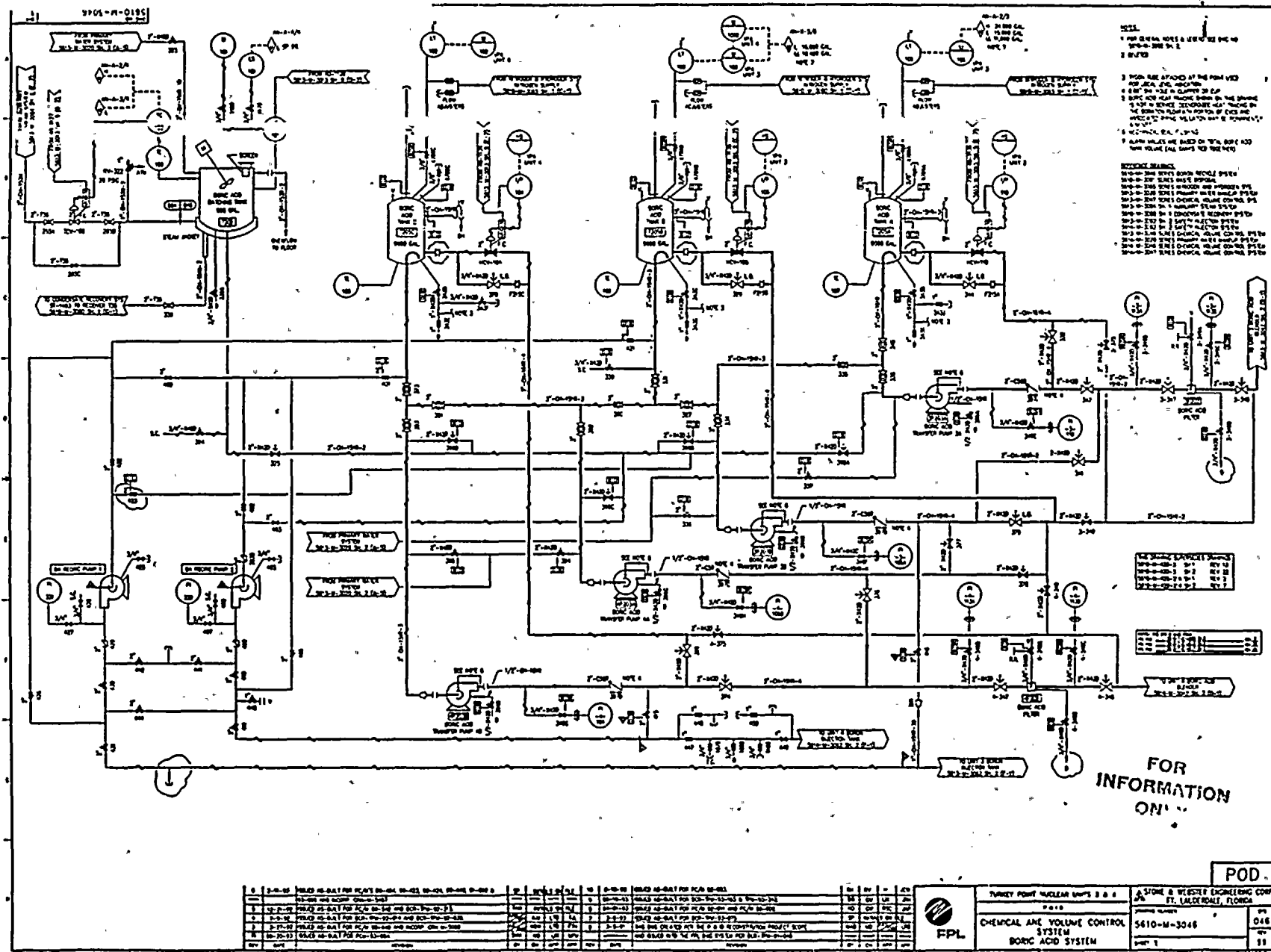
INSERVICE TESTING - VALVE TABLES
Turkey Point Nuclear Plant - Unit 4
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NOTES

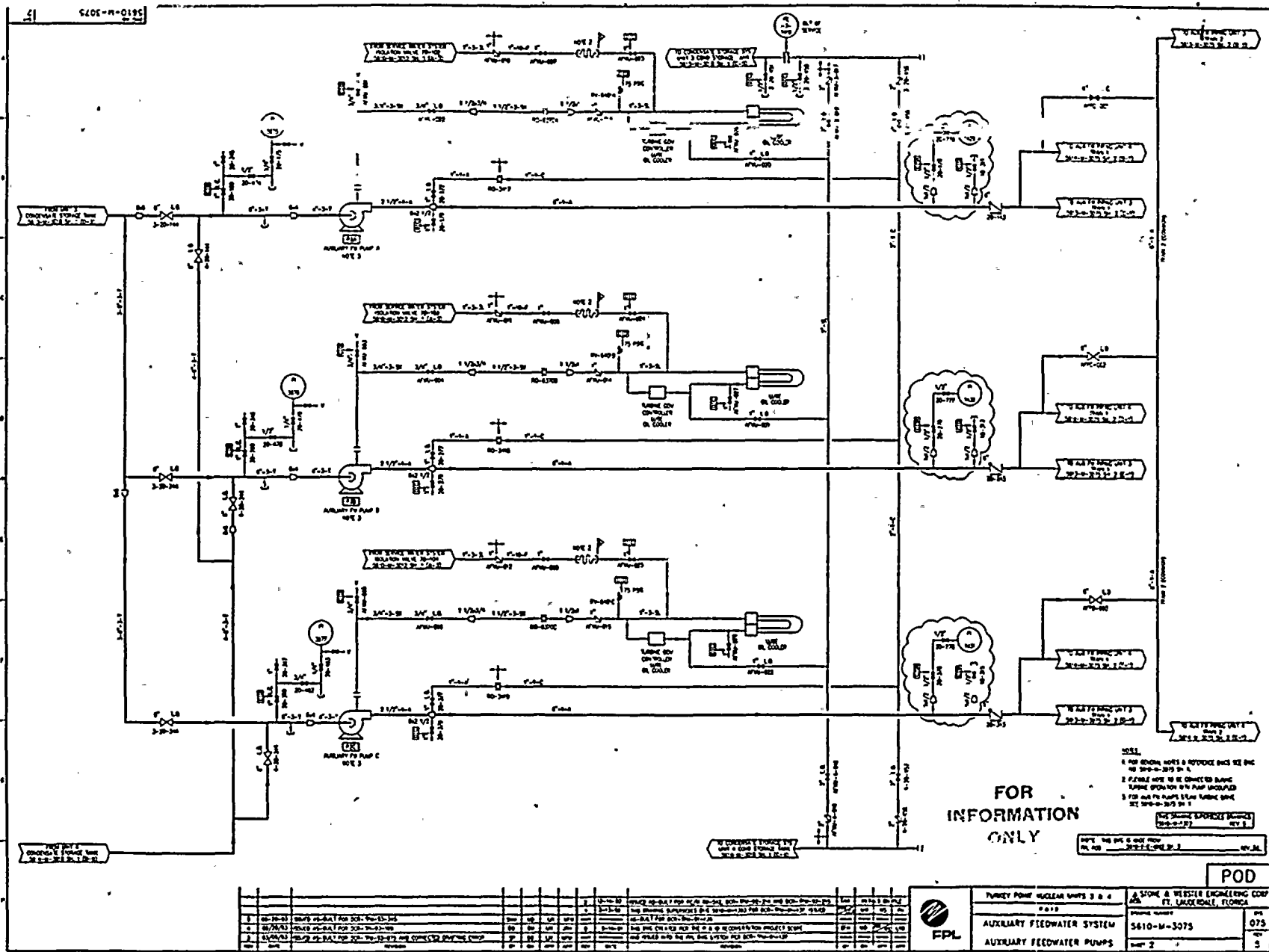
- Pg 138 1. Valves 4-10-004 through 4-10-006 are not included within the ISI class boundaries and, as such, are exempt from the inclusive requirements of the Code. These components have been included in the Program to ensure that inservice testing is adequate to demonstrate their continued operability. These valves will be tested in accordance with Code requirements, except where determined impractical, in which case specific relief from the Code is not required.
- These are large stop check valves in the main steam lines leading to the main turbine generator. There is no practical way of verifying closure of these valves by way of a back seat or reverse flow test. Exercising a valve manually using the hand wheel provides some assurance that the disc moves freely within the valve body. Furthermore, the valves are disassembled, inspected, and manually exercised at least once during each 10-year inspection interval.
- Pg 142 2. Auxiliary Feedwater Steam Supply Valve, 4-10-087 will be tested whenever AFW Pump "C" is aligned to Train 1.

ATTACHMENT 3







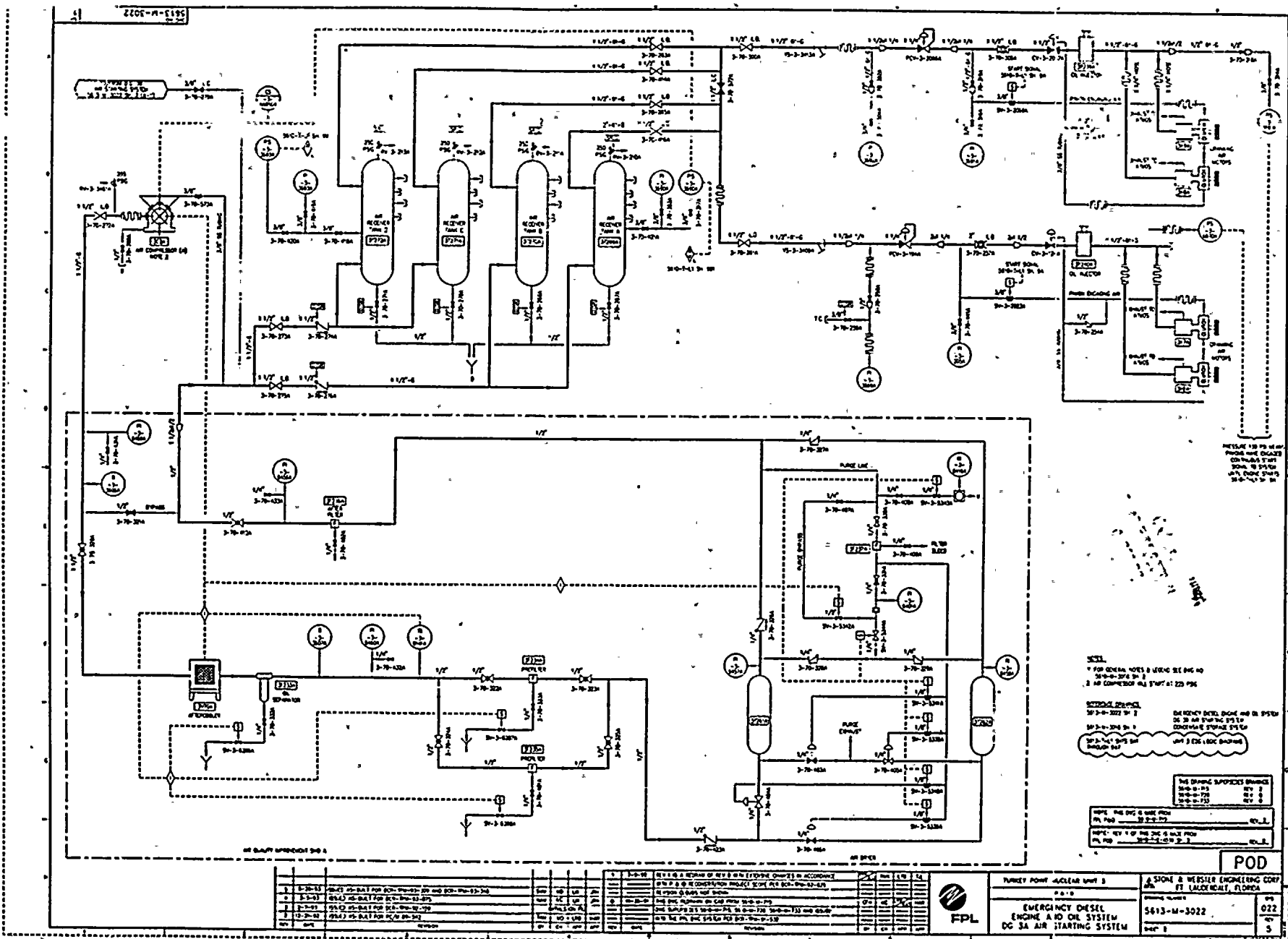












NOTE: 1. FOR GENERAL NOTES & LEGEND SEE SHEET 5613-M-3022-1. 2. AIR COMPRESSOR HAS START AT 225 PSI.

REVISIONS:

NO.	DATE	DESCRIPTION
1	5-15-61	DESIGN
2	5-15-61	REVISED
3	5-15-61	REVISED
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6	5-15-61	REVISED
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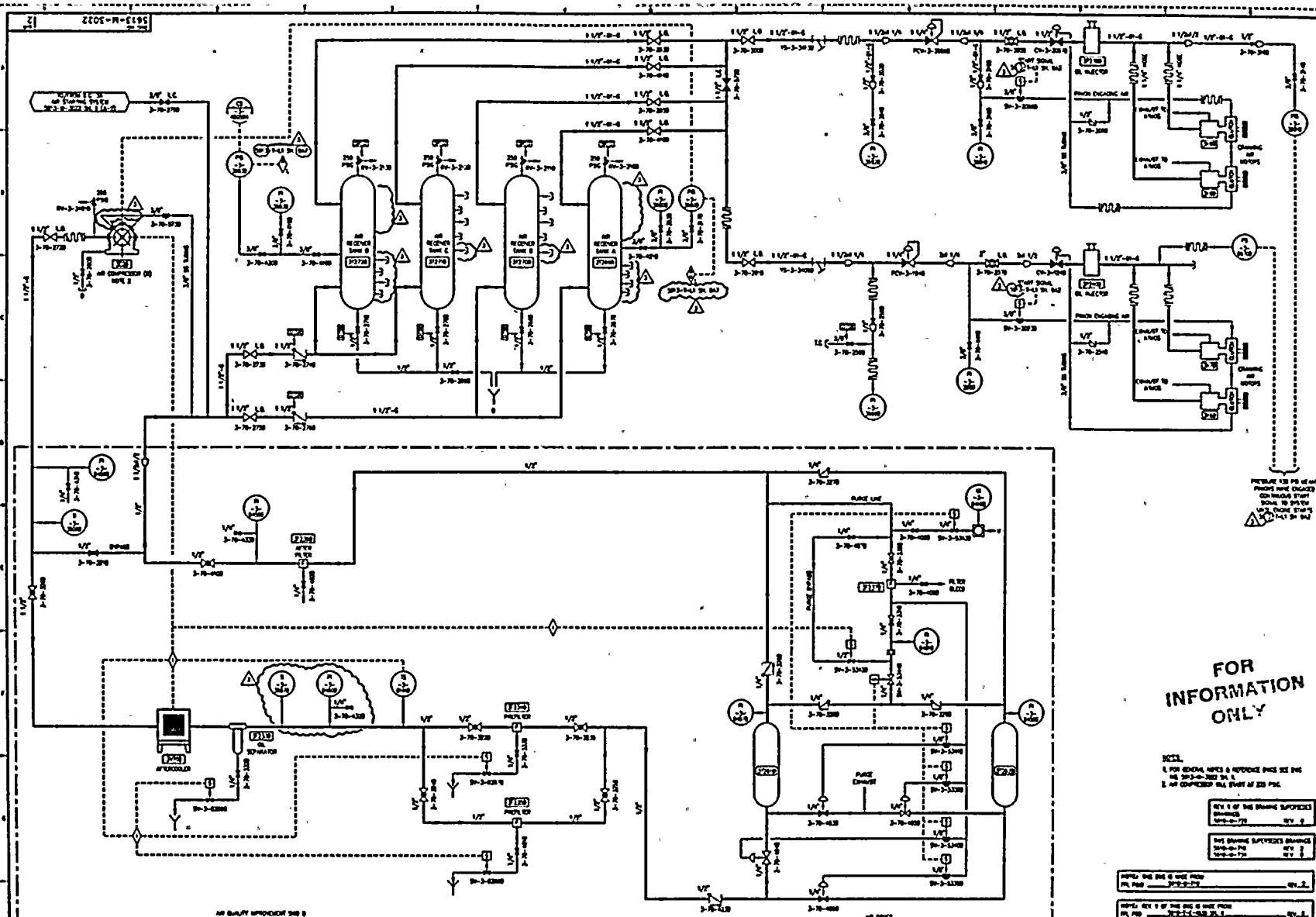
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EMERGENCY DIESEL ENGINE A HO OIL SYSTEM DC 3A AIR STARTING SYSTEM

5613-M-3022

022

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FOR
INFORMATION
ONLY

NOTE:
1. FOR GENERAL NOTES & REFERENCE PAGES SEE PAGES 5413-M-3022-1 & 5413-M-3022-2.
2. AIR COMPRESSOR SHALL START AT 220 PSIG.

REV 1 OF THIS DRAWING SUPERSEDES
5413-M-3022-1
REV 1

THIS DRAWING SUPERSEDES DRAWINGS
5413-M-3022-1
REV 1

REPLACES THIS SHEET & DATE FROM
REV 1
5413-M-3022-1

REPLACES REV 1 OF THIS SHEET & DATE FROM
REV 1
5413-M-3022-1

NO.	DATE	DESCRIPTION	BY	CHKD	APP'D
1	1-10-71	ISSUED AS-BUILT FOR DG-38	W		
2	1-10-71	ISSUED AS-BUILT FOR DG-38	W		
3	1-10-71	ISSUED AS-BUILT FOR DG-38	W		
4	1-10-71	ISSUED AS-BUILT FOR DG-38	W		
5	1-10-71	ISSUED AS-BUILT FOR DG-38	W		
6	1-10-71	ISSUED AS-BUILT FOR DG-38	W		
7	1-10-71	ISSUED AS-BUILT FOR DG-38	W		
8	1-10-71	ISSUED AS-BUILT FOR DG-38	W		
9	1-10-71	ISSUED AS-BUILT FOR DG-38	W		
10	1-10-71	ISSUED AS-BUILT FOR DG-38	W		



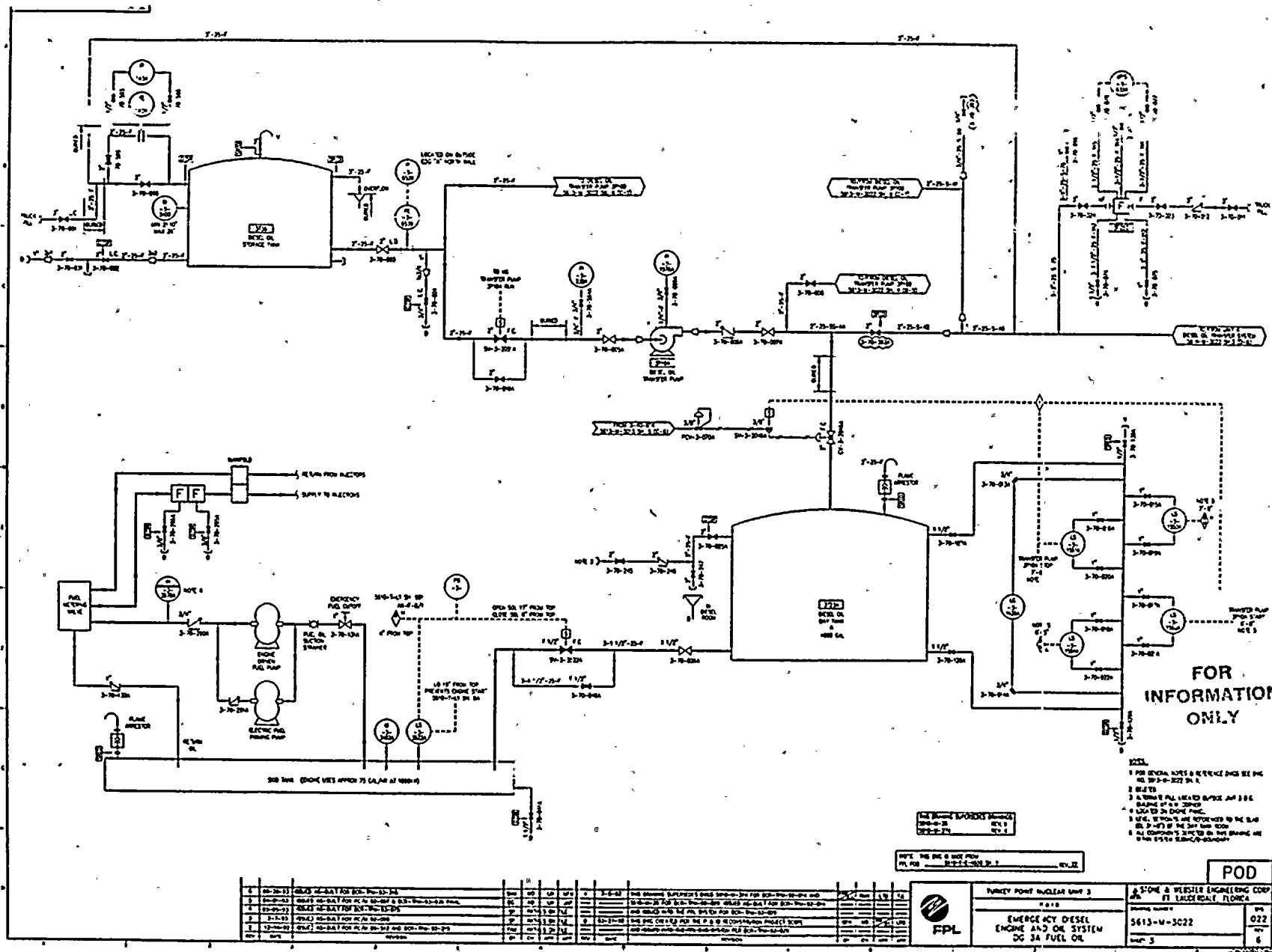
TURKEY POINT NUCLEAR UNIT 2
P-1010

EMERGENCY DIESEL
ENGINE AND OIL SYSTEM
DG 38 AIR STARTING SYSTEM

5413-M-3022

022

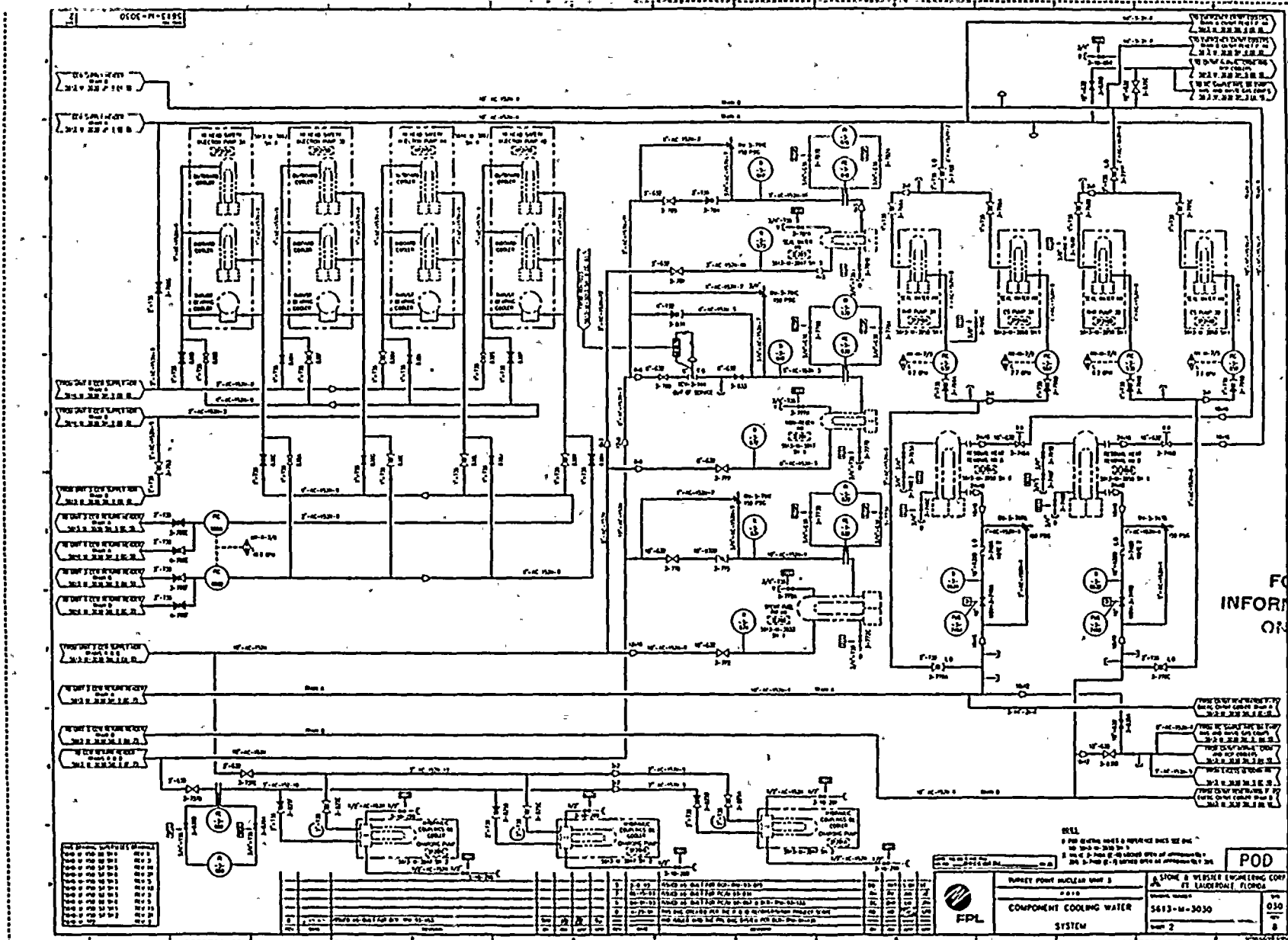
3











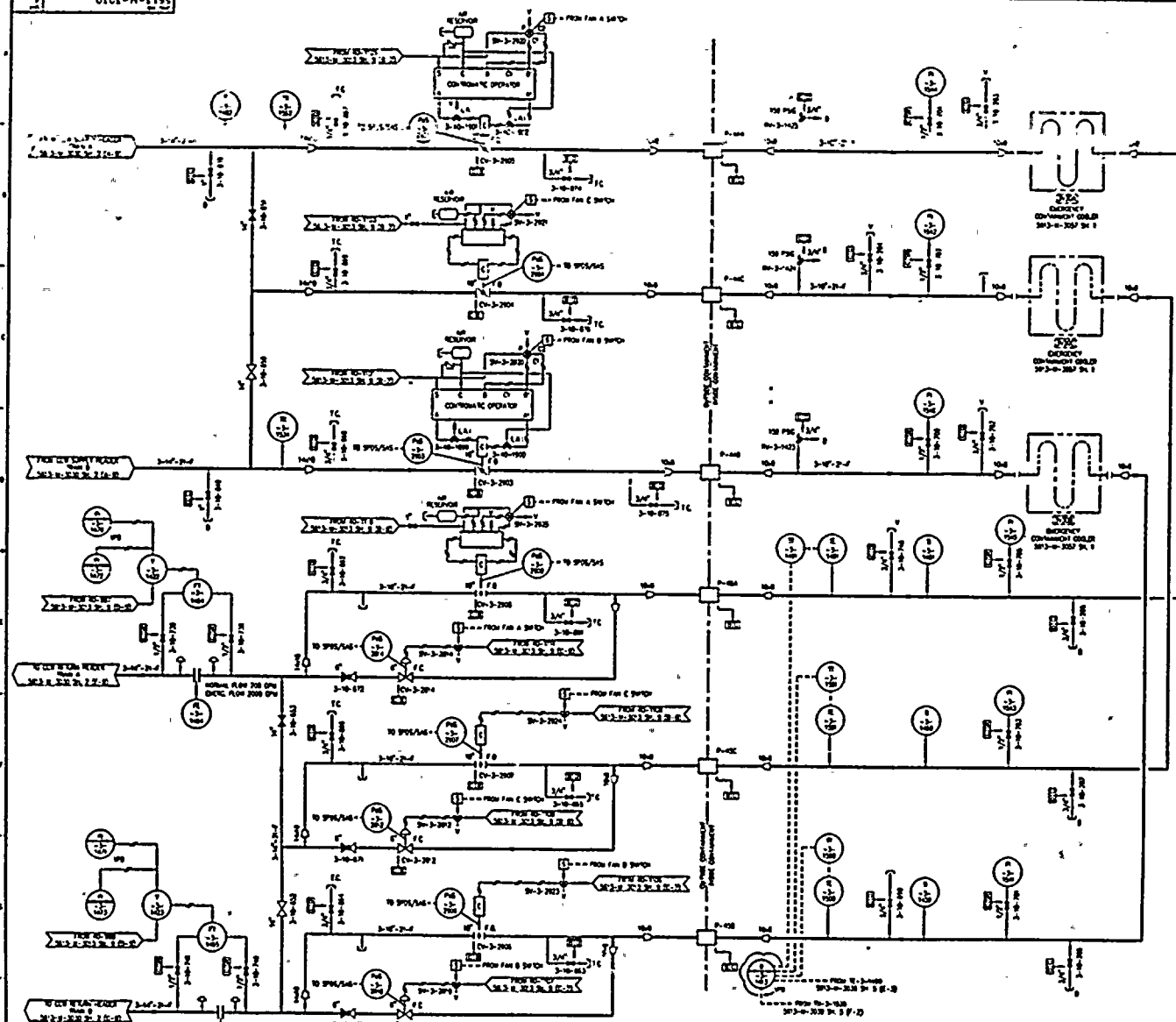
FOR
INFORMATION
ONLY

POD

PUMPEY POINT NUCLEAR UNIT 3
 2010
 COMPONENT COOLING WATER
 SYSTEM







DEPENDENCY COMPRESSOR COOLERS INLET POSITION			
FAN SWITCH POSITION	INLET VALVE	OUTLET VALVE	INLET PRESSURE
OFF	OPEN	CLOSED	0 PSI
FAN NOT RUNNING	OPEN	CLOSED	0 PSI
FAN RUNNING	OPEN	OPEN	0 PSI
FAN STOPPED	CLOSED	CLOSED	0 PSI
STOP	CLOSED	CLOSED	0 PSI

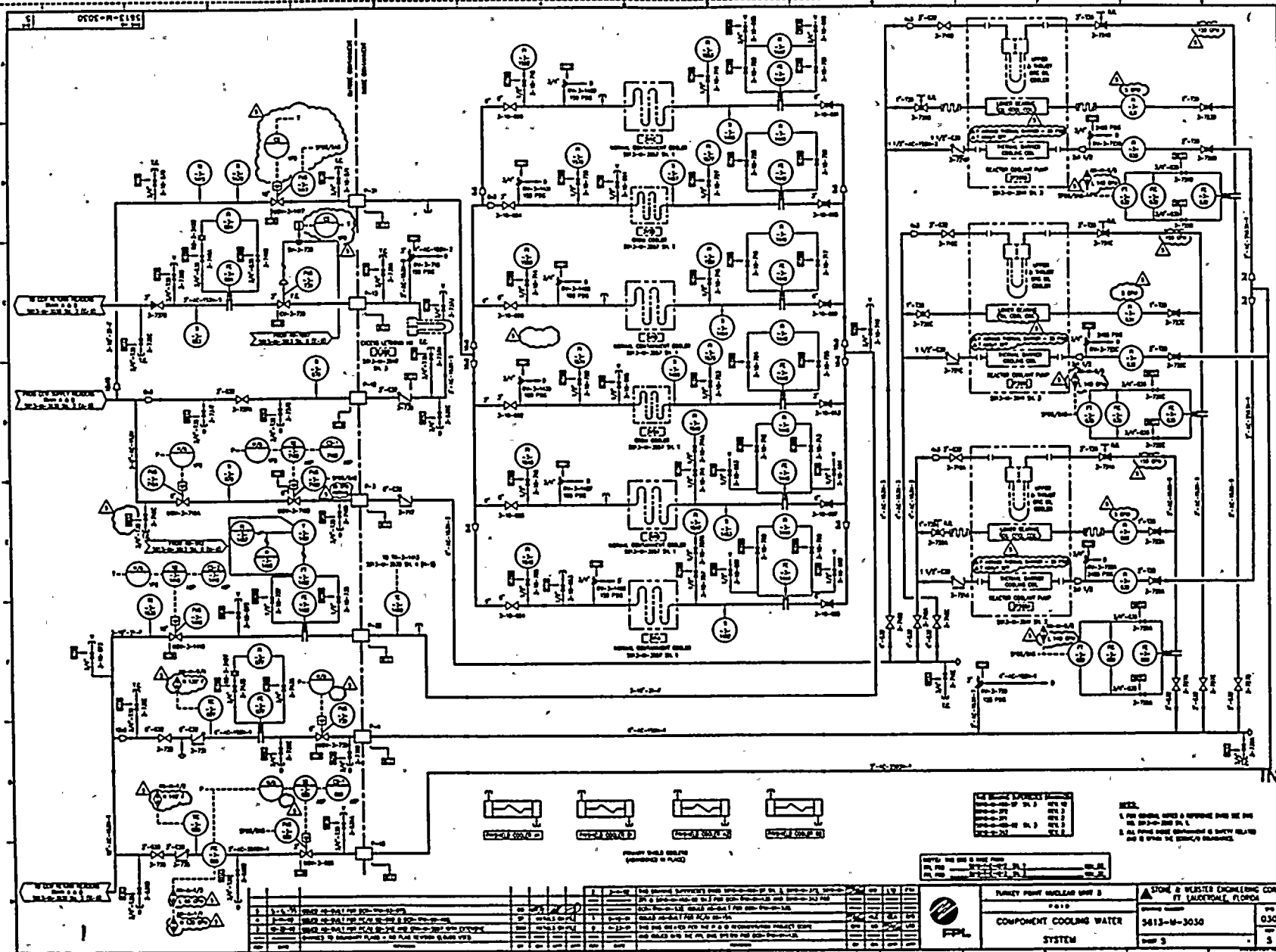
1. FOR GENERAL NOTES & REFERENCE SEE SEE SHEET 303-0-200-01
 2. SEE SHEET 303-0-200-01
 3. ALL PIPING MUST BE CONFORMANT WITH THE S.D. & S.E. STANDARDS AND THE S.D. & S.E. STANDARDS

ITEM	DESCRIPTION	QUANTITY	UNIT
1	303-0-200-01	1	EA
2	303-0-200-02	1	EA
3	303-0-200-03	1	EA
4	303-0-200-04	1	EA

ITEM	DESCRIPTION	QUANTITY	UNIT
1	303-0-200-01	1	EA
2	303-0-200-02	1	EA
3	303-0-200-03	1	EA
4	303-0-200-04	1	EA
5	303-0-200-05	1	EA
6	303-0-200-06	1	EA
7	303-0-200-07	1	EA
8	303-0-200-08	1	EA

THREE POINT JOLLA UNIT 3 1010 COMPONENT COOLING WATER SYSTEM		STONE & WEBSTER ENGINEERING CORP 1010 5613-M-3030 SHEET 4	POD 030 6
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STEAM GENERATOR BLOWDOWN

4-1	3
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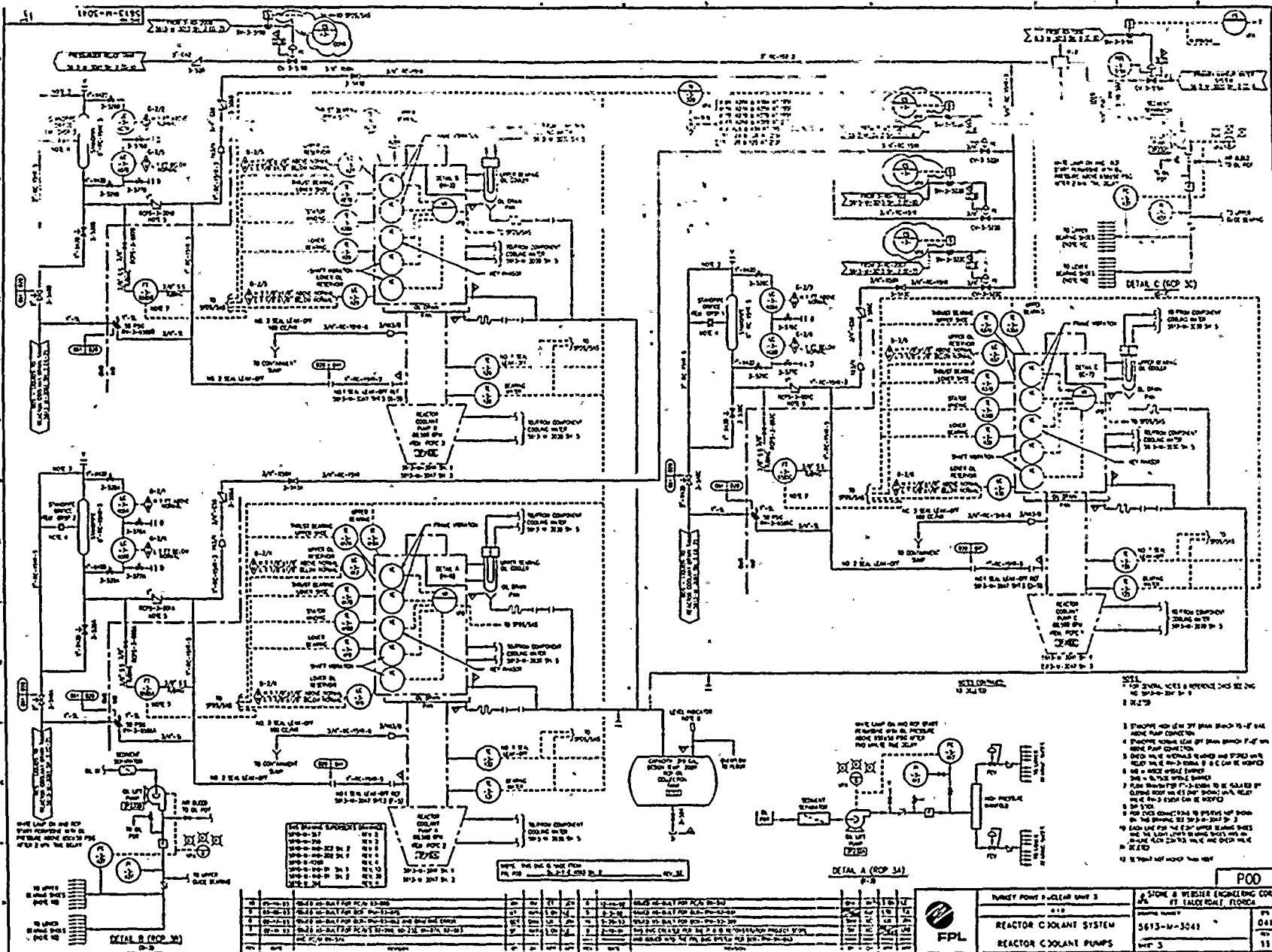
153





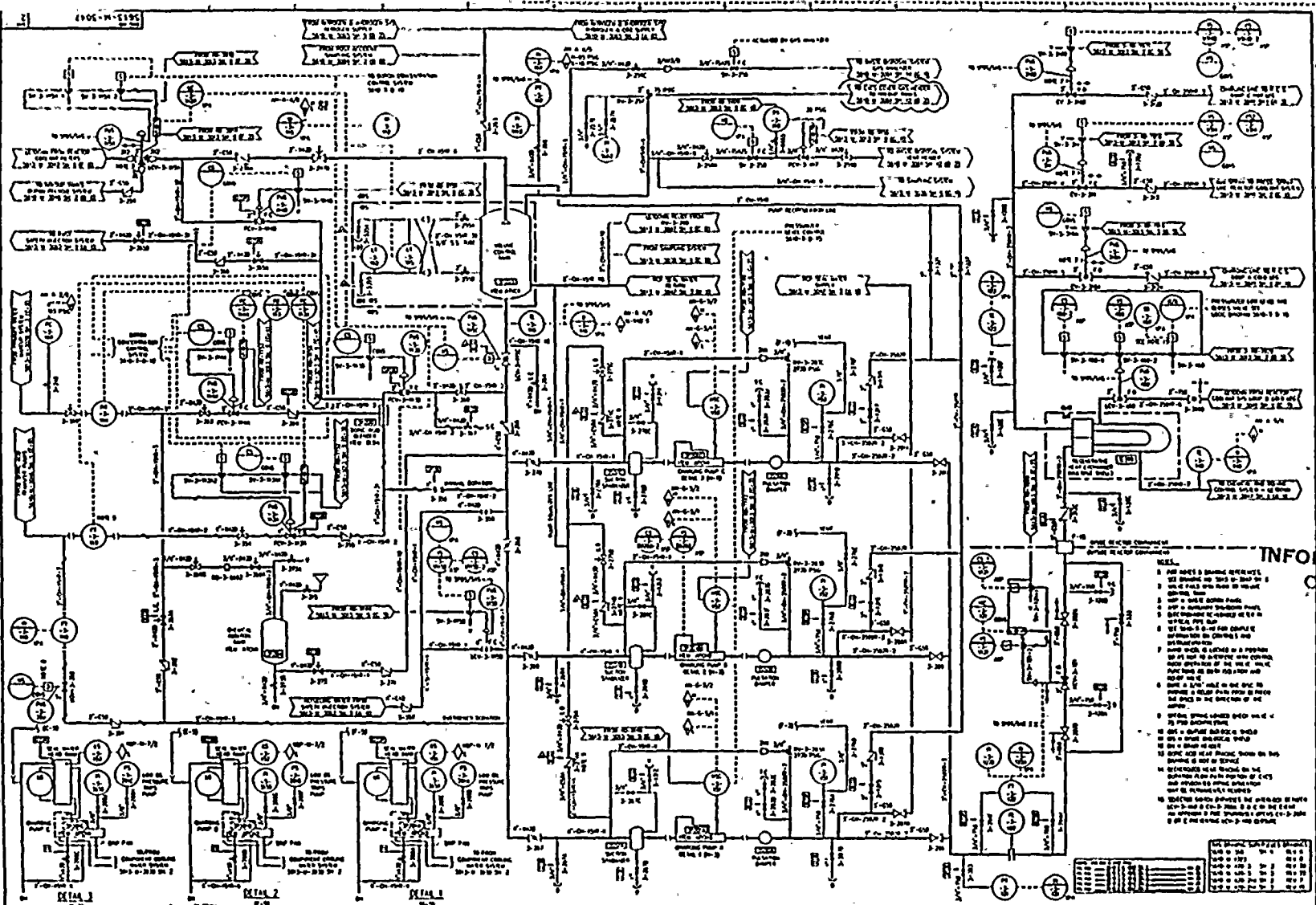


TURKEY POINT NUCLEAR UNIT 3	J. STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
# 010	5613-M-3041	PS 041
REACTOR COOLANT SYSTEM	SHEET 2	12



FPL		P00	
REACTOR COOLANT SYSTEM		S613-M-3041	
REACTOR COOLANT PUMPS		Sheet 3	





FOR
INFORMATION
ONLY

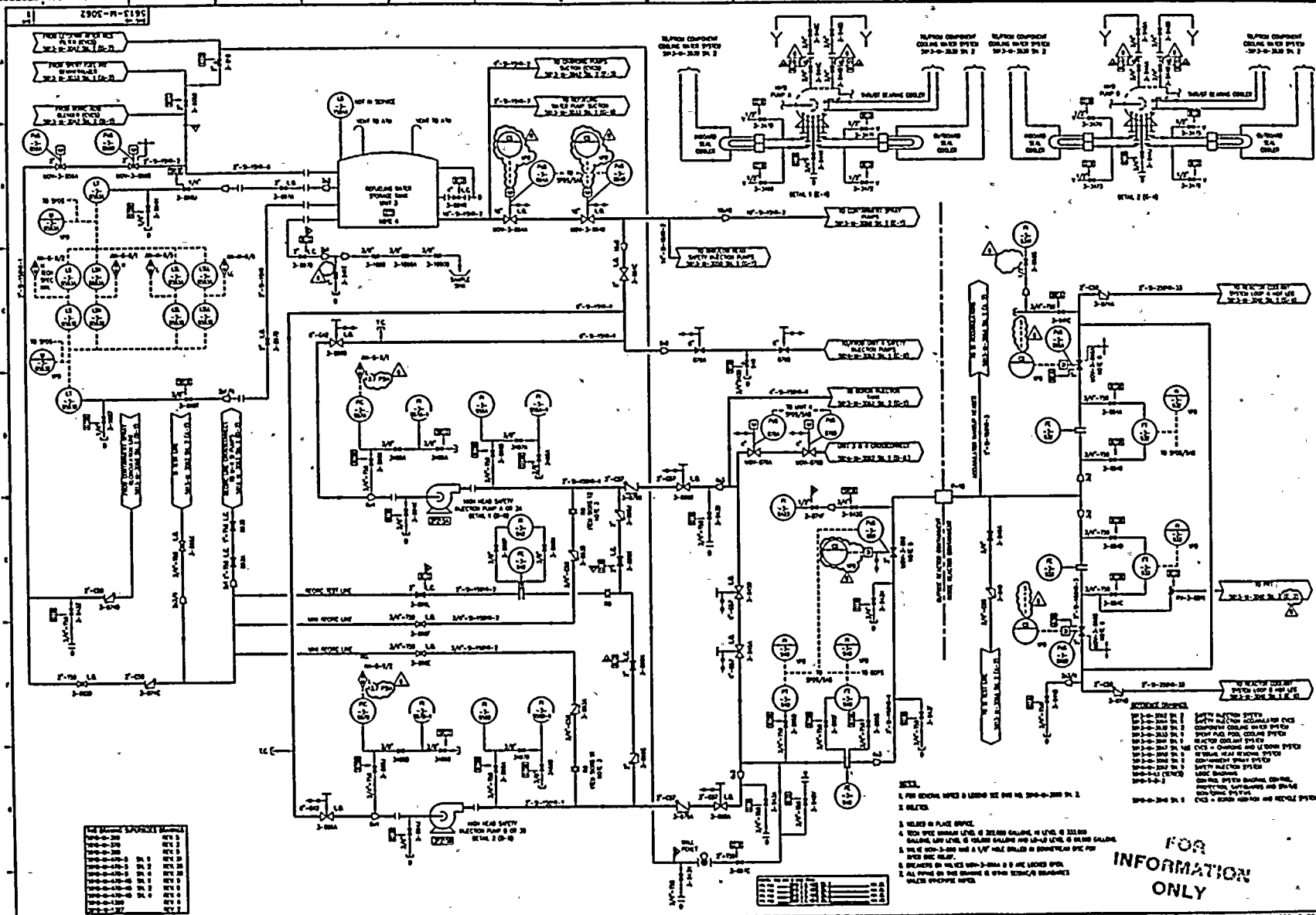
1. All water is treated in the Main Feedwater Tank.
2. All water is treated in the Main Condensate Tank.
3. All water is treated in the Main Steam Generator.
4. All water is treated in the Main Feedwater Tank.
5. All water is treated in the Main Condensate Tank.
6. All water is treated in the Main Steam Generator.
7. All water is treated in the Main Feedwater Tank.
8. All water is treated in the Main Condensate Tank.
9. All water is treated in the Main Steam Generator.
10. All water is treated in the Main Feedwater Tank.
11. All water is treated in the Main Condensate Tank.
12. All water is treated in the Main Steam Generator.
13. All water is treated in the Main Feedwater Tank.
14. All water is treated in the Main Condensate Tank.
15. All water is treated in the Main Steam Generator.
16. All water is treated in the Main Feedwater Tank.
17. All water is treated in the Main Condensate Tank.
18. All water is treated in the Main Steam Generator.
19. All water is treated in the Main Feedwater Tank.
20. All water is treated in the Main Condensate Tank.
21. All water is treated in the Main Steam Generator.
22. All water is treated in the Main Feedwater Tank.
23. All water is treated in the Main Condensate Tank.
24. All water is treated in the Main Steam Generator.
25. All water is treated in the Main Feedwater Tank.
26. All water is treated in the Main Condensate Tank.
27. All water is treated in the Main Steam Generator.
28. All water is treated in the Main Feedwater Tank.
29. All water is treated in the Main Condensate Tank.
30. All water is treated in the Main Steam Generator.

Item	Description	Quantity	Unit
1	Water	1000	gallons
2	Water	1000	gallons
3	Water	1000	gallons
4	Water	1000	gallons
5	Water	1000	gallons
6	Water	1000	gallons
7	Water	1000	gallons
8	Water	1000	gallons
9	Water	1000	gallons
10	Water	1000	gallons
11	Water	1000	gallons
12	Water	1000	gallons
13	Water	1000	gallons
14	Water	1000	gallons
15	Water	1000	gallons
16	Water	1000	gallons
17	Water	1000	gallons
18	Water	1000	gallons
19	Water	1000	gallons
20	Water	1000	gallons
21	Water	1000	gallons
22	Water	1000	gallons
23	Water	1000	gallons
24	Water	1000	gallons
25	Water	1000	gallons
26	Water	1000	gallons
27	Water	1000	gallons
28	Water	1000	gallons
29	Water	1000	gallons
30	Water	1000	gallons

		SAVANNAH RIVER NUCLEAR PLANT CHEMICAL AND VOLUME CONTROL SYSTEM CHARGING AND LEITDOWN		5613-M-3047 SHEET 2
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Legend

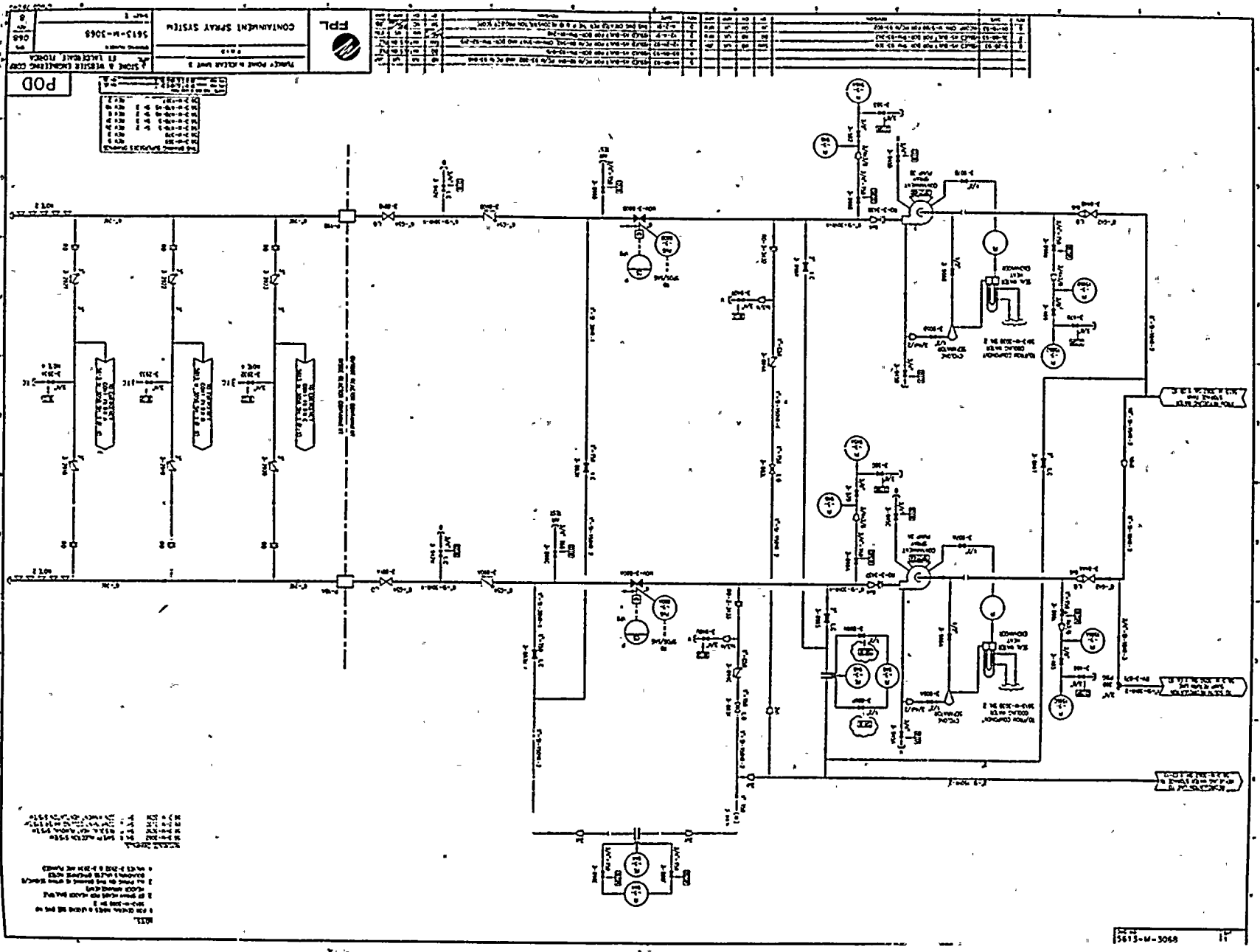
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Rev	Date	Description	By	App
1	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.
2	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.
3	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.
4	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.
5	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.
6	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.
7	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.
8	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.
9	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.
10	1-15-63	REACTOR COOLANT SYSTEM FOR PLANT 10-100 & 10-100	W. J. H. H.	W. J. H. H.

- NOTES
1. FOR REACTOR COOLANT SYSTEM SEE PLANT 10-100 & 10-100 IN 1 & 2.
 2. REACTOR COOLANT SYSTEM.
 3. REACTOR COOLANT SYSTEM.
 4. REACTOR COOLANT SYSTEM.
 5. REACTOR COOLANT SYSTEM.
 6. REACTOR COOLANT SYSTEM.
 7. REACTOR COOLANT SYSTEM.
 8. REACTOR COOLANT SYSTEM.
 9. REACTOR COOLANT SYSTEM.
 10. REACTOR COOLANT SYSTEM.

FOR
INFORMATION
ONLY

	POINT FORT NUCLEAR UNIT 2 SAFETY INJECTION SYSTEM	STONE & WHEELER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA 5613-M-3062 SHEET 1	062 6

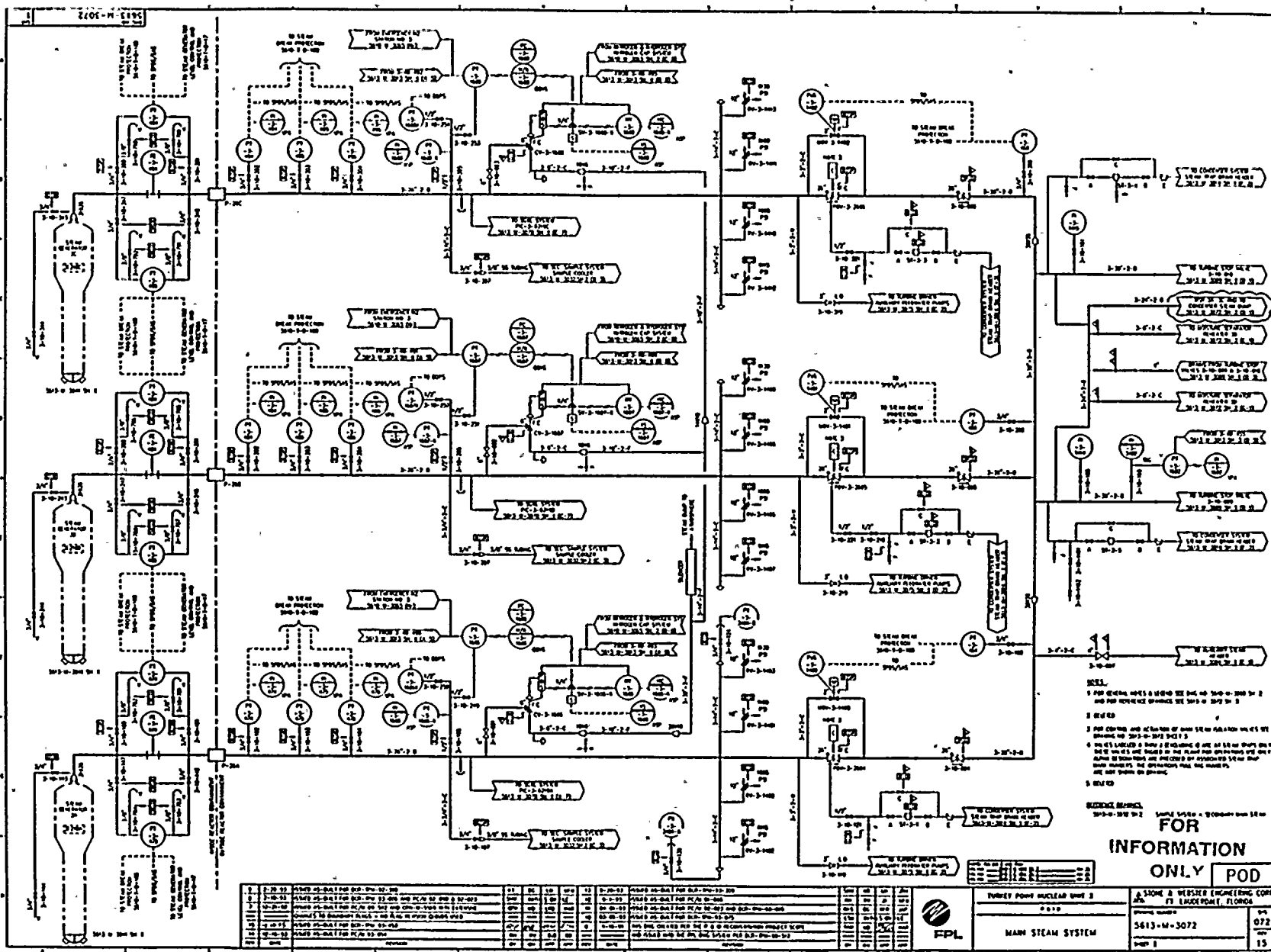


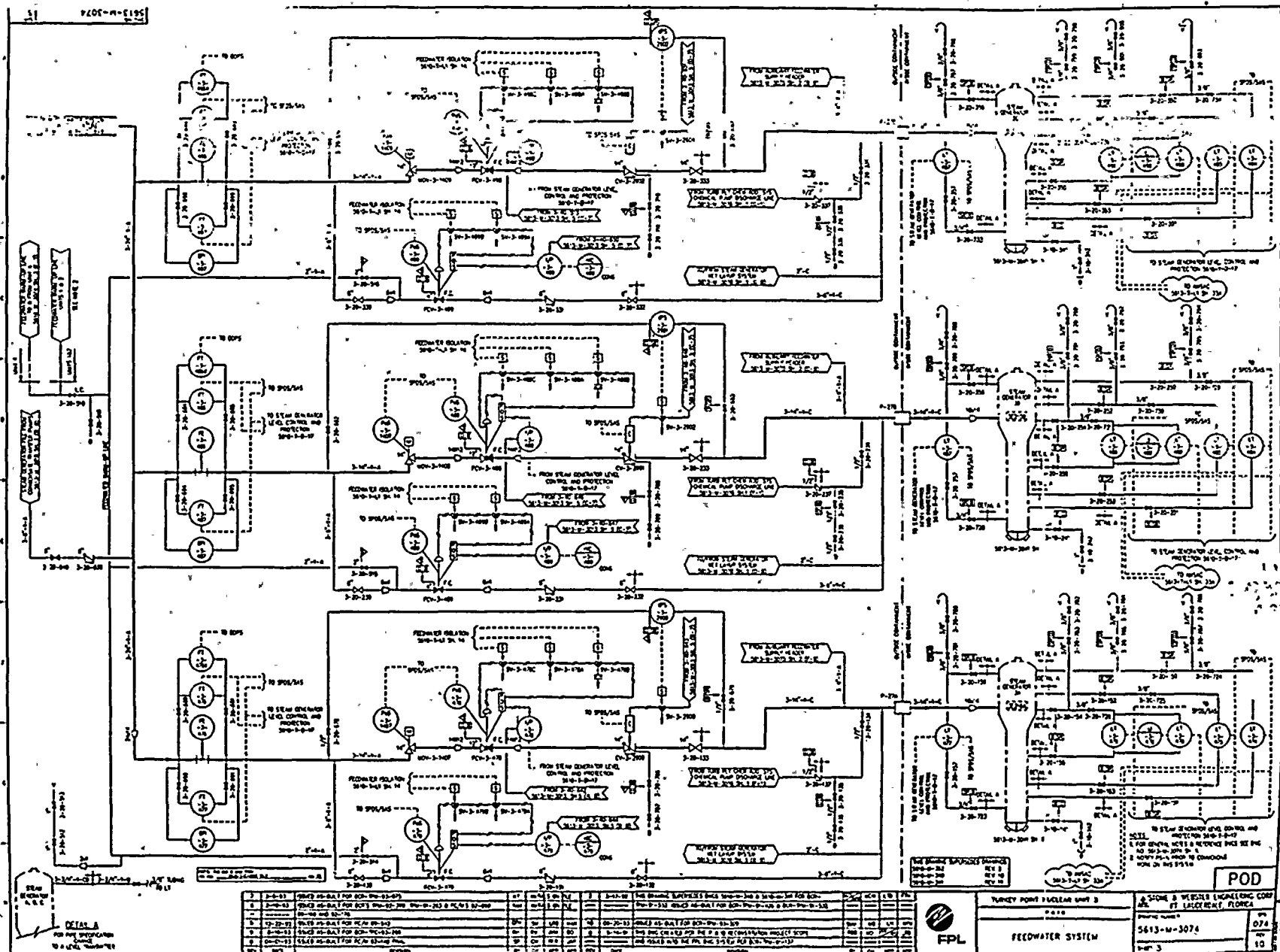
FPL
CONTAINMENT SPRAY SYSTEM
PLANT POWER & CONTROL UNIT 2
5613-M-3068


TABLE 1
ELECTRICAL SYMBOLS

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
9. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.







FPL

TURNKEY POINT NUCLEAR UNIT 3

FEEDWATER SYSTEM

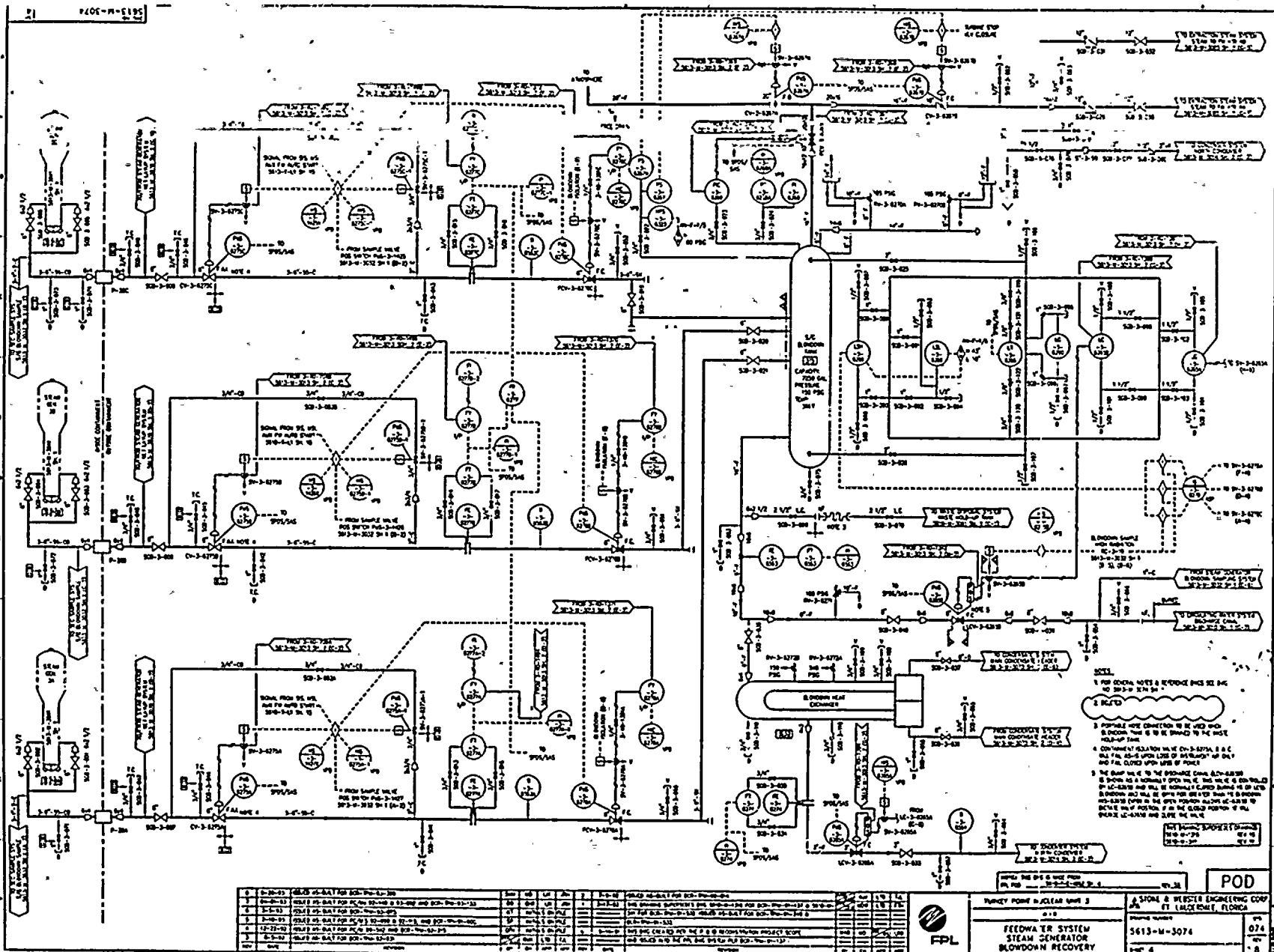
POD

ASHOKE & WHEELER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

Project Number: 5613-M-3074

Sheet 3 of 10

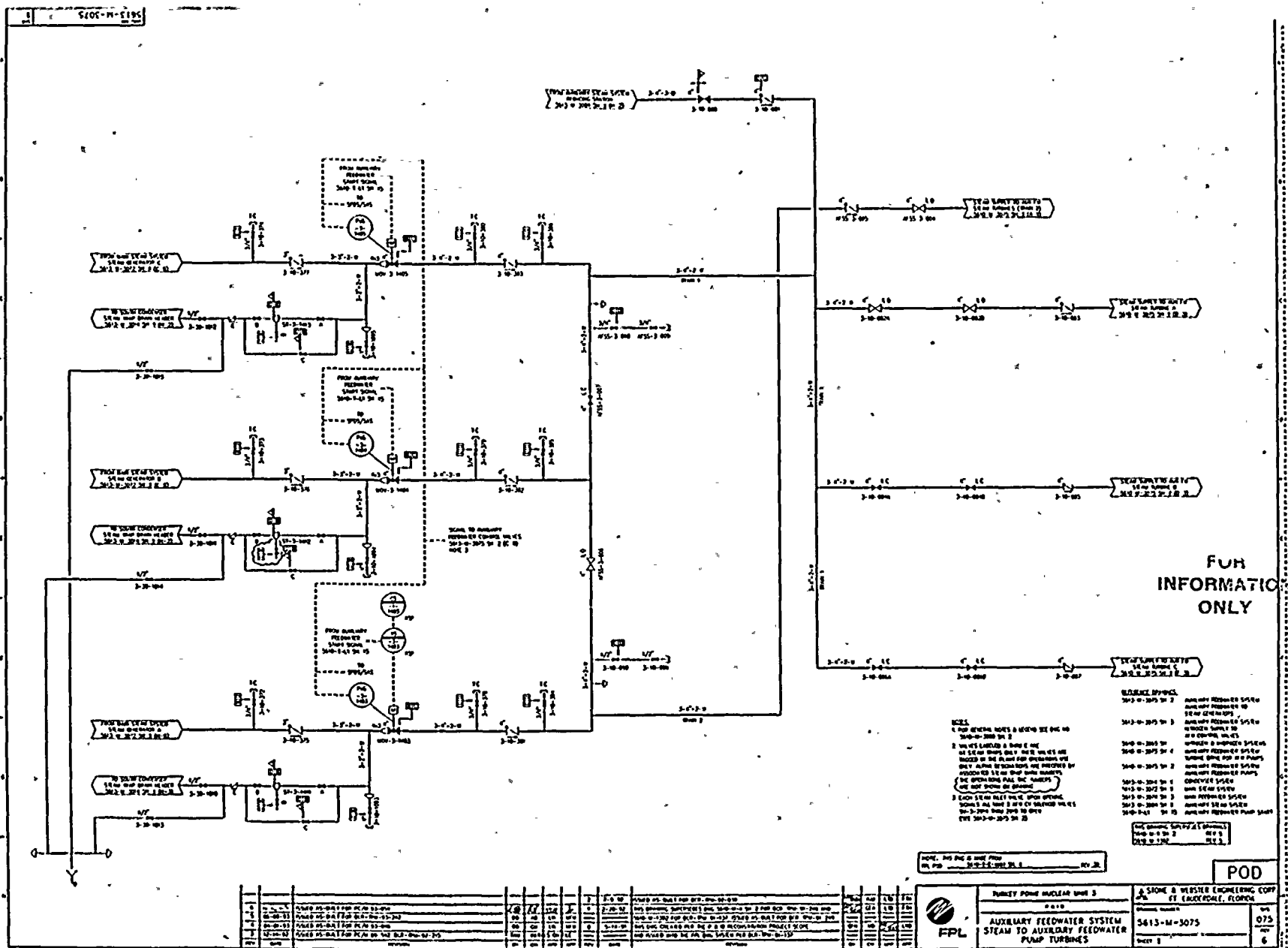




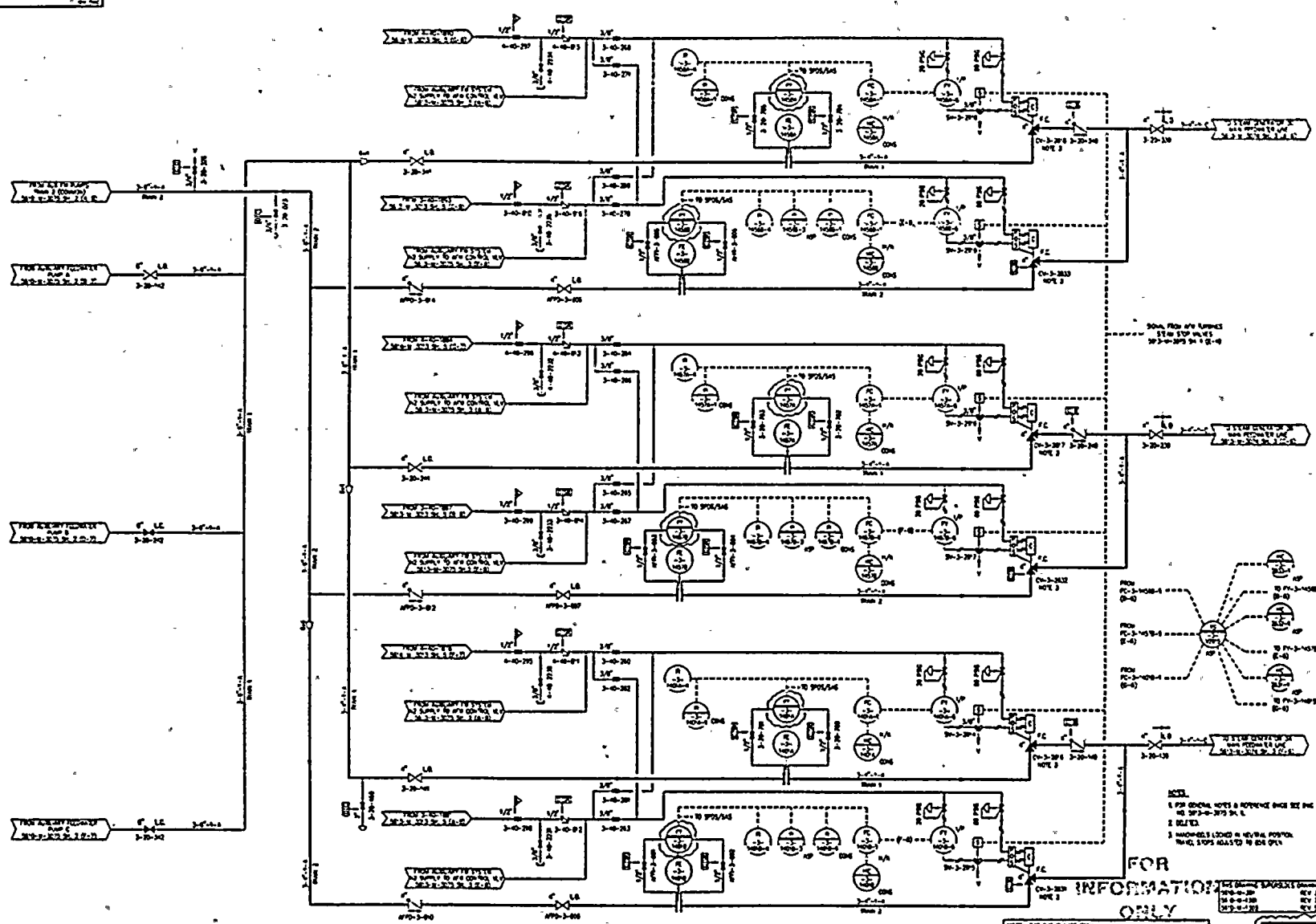
1	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	1	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100
2	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	2	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100
3	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	3	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100
4	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	4	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100
5	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	5	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100
6	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	6	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100
7	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	7	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100
8	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	8	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100
9	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	9	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100
10	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100	10	12-20-73	REVIS 12-20-73 FOR BOP-10-1-100

FEEDWATER SYSTEM STEAM GENERATOR BLOWDOWN RECOVERY		POD 5613-M-3074 074 8
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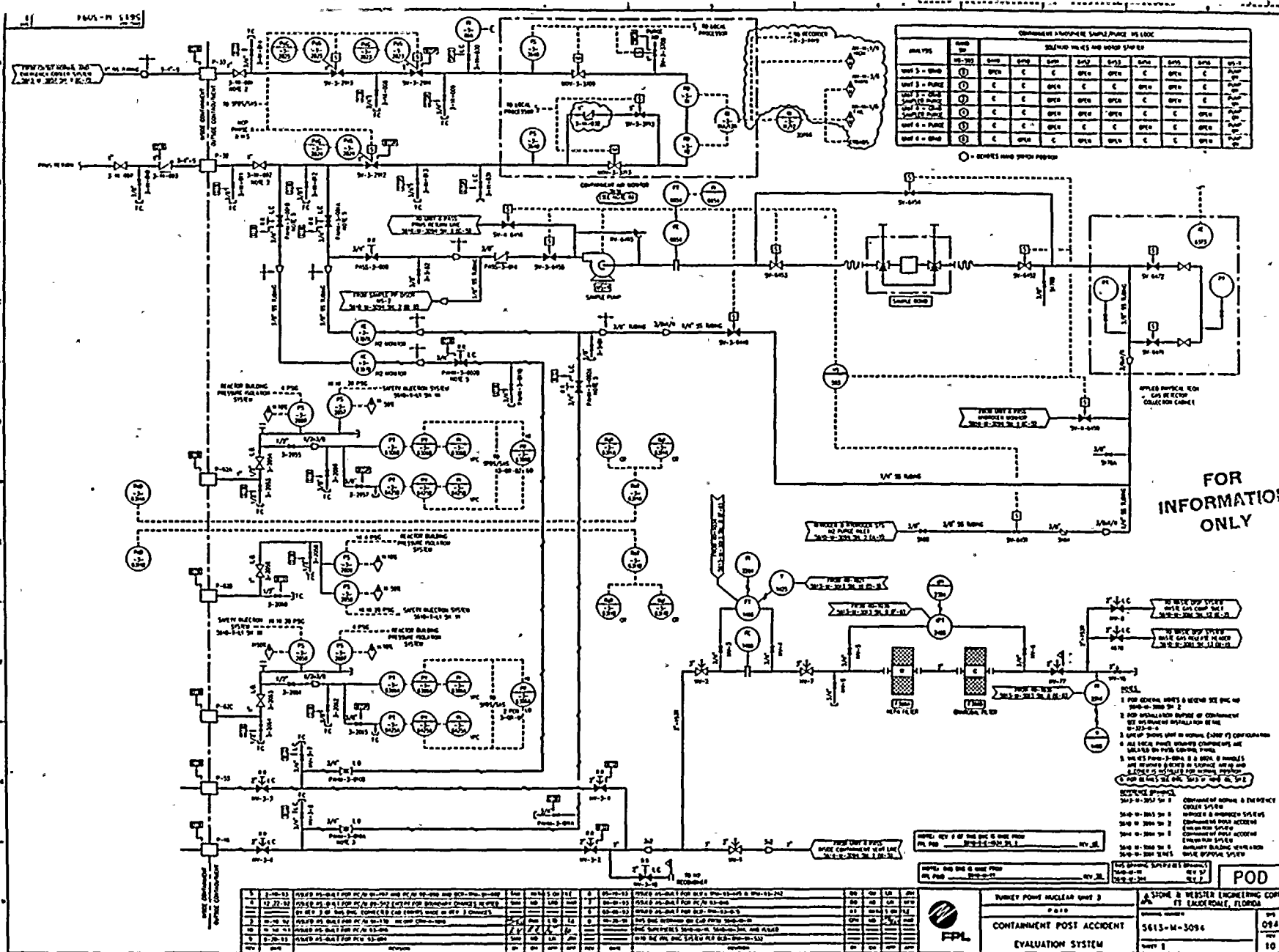


NOTES:
1. FOR GENERAL NOTES & NOTES ON THE P&ID SEE 3-20-3-3075-3-1-1
2. SEE 3-20-3-3075-3-1-1
3. MAINTENANCE LOGS IN SEVERAL POSITIONS
WALL 3-20-3-3075-3-1-1

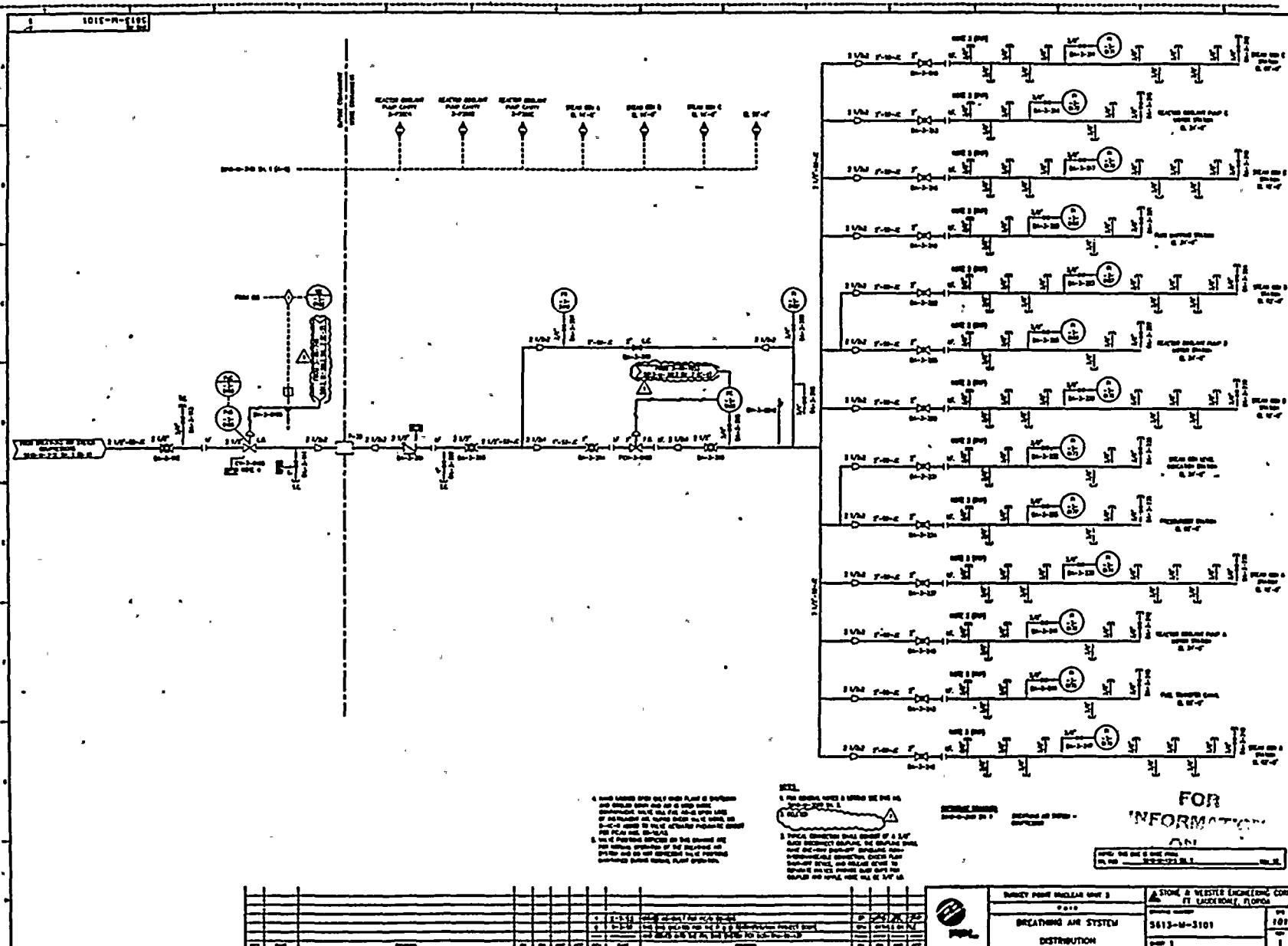
FOR INFORMATION ONLY

REV	DATE	DESCRIPTION	BY	CHKD	APP'D
1	10-10-71	DESIGN OF SYSTEM FOR P&ID 3-20-3-3075-3-1-1	W. J. L.		
2	10-10-71	DESIGN OF SYSTEM FOR P&ID 3-20-3-3075-3-1-1	W. J. L.		
3	10-10-71	DESIGN OF SYSTEM FOR P&ID 3-20-3-3075-3-1-1	W. J. L.		
4	10-10-71	DESIGN OF SYSTEM FOR P&ID 3-20-3-3075-3-1-1	W. J. L.		
5	10-10-71	DESIGN OF SYSTEM FOR P&ID 3-20-3-3075-3-1-1	W. J. L.		

<p>NOTE: THE P&ID IS NOT FROM THE P&ID 3-20-3-3075-3-1-1</p>		<p>POD</p>
<p>TURKEY POINT NUCLEAR UNIT 3</p>		<p>A. STONE & WHEELER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA</p>
<p>AUXILIARY FEEDWATER SYSTEM FEEDWATER TO STEAM GENERATORS</p>		<p>5613-M-3075 SHEET 2</p>







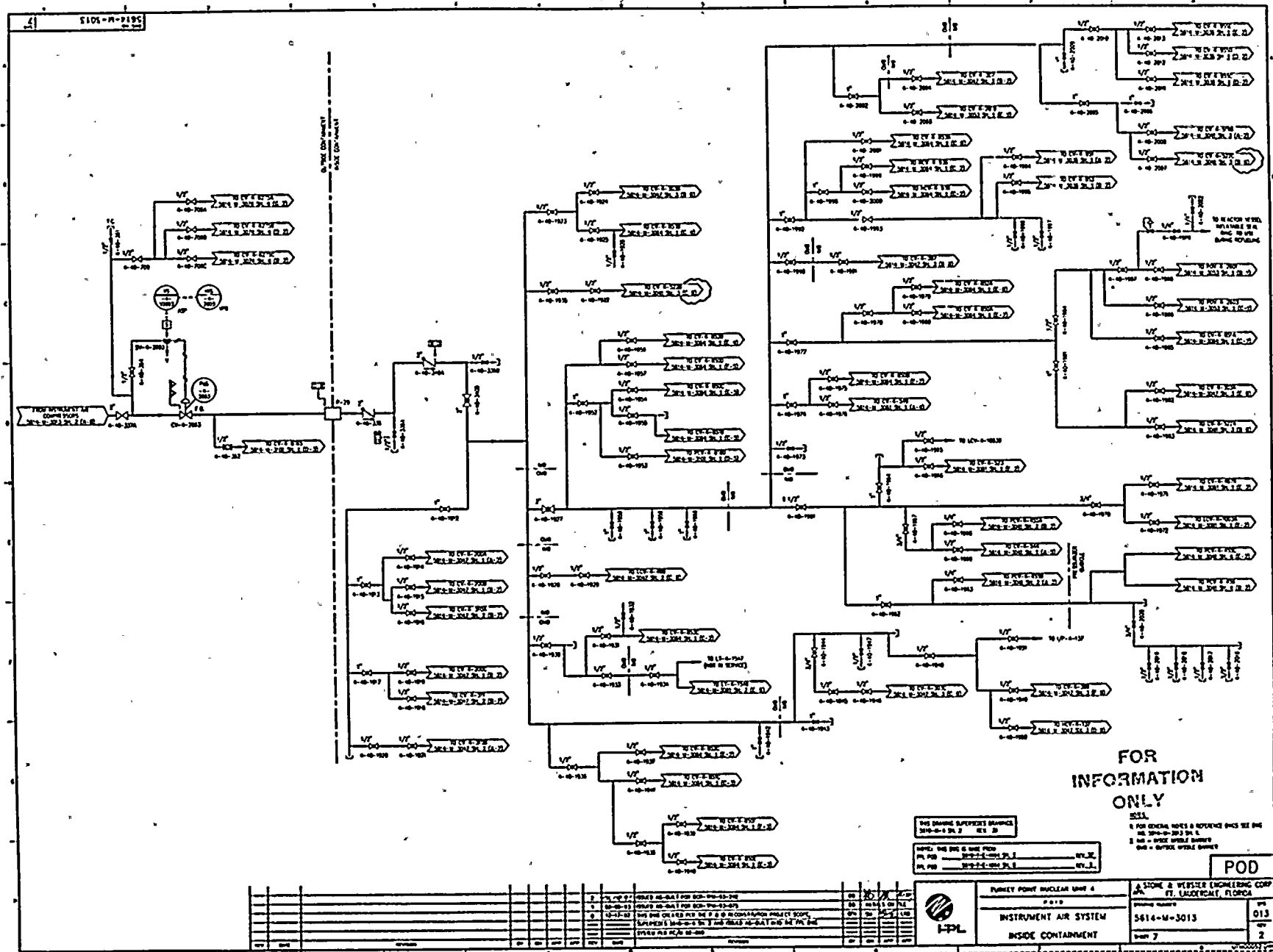
4. THIS SYSTEM IS A BREATHING AIR SYSTEM AND SHALL BE KEPT FREE OF ALL CONTAMINANTS. THE AIR SHALL BE KEPT FREE OF ALL CONTAMINANTS AND SHALL BE KEPT FREE OF ALL CONTAMINANTS. THE AIR SHALL BE KEPT FREE OF ALL CONTAMINANTS AND SHALL BE KEPT FREE OF ALL CONTAMINANTS.

5. THIS SYSTEM SHALL BE KEPT FREE OF ALL CONTAMINANTS. THE AIR SHALL BE KEPT FREE OF ALL CONTAMINANTS AND SHALL BE KEPT FREE OF ALL CONTAMINANTS. THE AIR SHALL BE KEPT FREE OF ALL CONTAMINANTS AND SHALL BE KEPT FREE OF ALL CONTAMINANTS.

FOR INFORMATION

DATE: 10/1/56

BREATHING AIR SYSTEM DISTRIBUTION	STONE & WESTER ENGINEERING CORP.	
	FT. LAUDERDALE, FLORIDA	
DISTRIBUTION	5613-M-3101	101
	SHEET 1	1

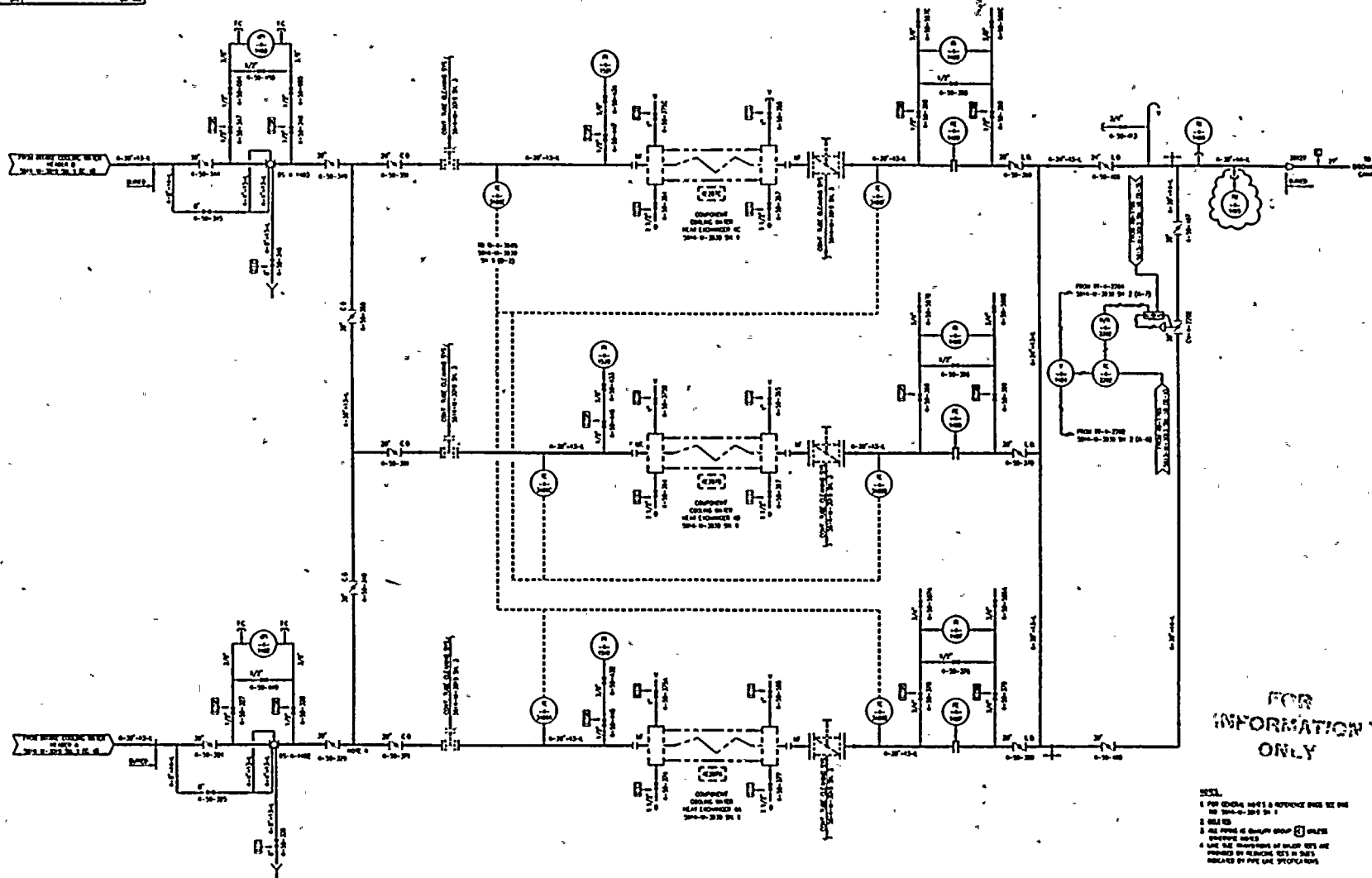








5814-M-3019



NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	1	ISSUED FOR CONSTRUCTION	10/1/78	J. L. STONE	J. L. STONE
2	2	REVISED TO ADD PUMP P-3	10/1/78	J. L. STONE	J. L. STONE
3	3	REVISED TO ADD PUMP P-4	10/1/78	J. L. STONE	J. L. STONE
4	4	REVISED TO ADD PUMP P-5	10/1/78	J. L. STONE	J. L. STONE
5	5	REVISED TO ADD PUMP P-6	10/1/78	J. L. STONE	J. L. STONE
6	6	REVISED TO ADD PUMP P-7	10/1/78	J. L. STONE	J. L. STONE
7	7	REVISED TO ADD PUMP P-8	10/1/78	J. L. STONE	J. L. STONE
8	8	REVISED TO ADD PUMP P-9	10/1/78	J. L. STONE	J. L. STONE
9	9	REVISED TO ADD PUMP P-10	10/1/78	J. L. STONE	J. L. STONE
10	10	REVISED TO ADD PUMP P-11	10/1/78	J. L. STONE	J. L. STONE
11	11	REVISED TO ADD PUMP P-12	10/1/78	J. L. STONE	J. L. STONE
12	12	REVISED TO ADD PUMP P-13	10/1/78	J. L. STONE	J. L. STONE
13	13	REVISED TO ADD PUMP P-14	10/1/78	J. L. STONE	J. L. STONE
14	14	REVISED TO ADD PUMP P-15	10/1/78	J. L. STONE	J. L. STONE
15	15	REVISED TO ADD PUMP P-16	10/1/78	J. L. STONE	J. L. STONE
16	16	REVISED TO ADD PUMP P-17	10/1/78	J. L. STONE	J. L. STONE
17	17	REVISED TO ADD PUMP P-18	10/1/78	J. L. STONE	J. L. STONE
18	18	REVISED TO ADD PUMP P-19	10/1/78	J. L. STONE	J. L. STONE
19	19	REVISED TO ADD PUMP P-20	10/1/78	J. L. STONE	J. L. STONE
20	20	REVISED TO ADD PUMP P-21	10/1/78	J. L. STONE	J. L. STONE
21	21	REVISED TO ADD PUMP P-22	10/1/78	J. L. STONE	J. L. STONE
22	22	REVISED TO ADD PUMP P-23	10/1/78	J. L. STONE	J. L. STONE
23	23	REVISED TO ADD PUMP P-24	10/1/78	J. L. STONE	J. L. STONE
24	24	REVISED TO ADD PUMP P-25	10/1/78	J. L. STONE	J. L. STONE
25	25	REVISED TO ADD PUMP P-26	10/1/78	J. L. STONE	J. L. STONE
26	26	REVISED TO ADD PUMP P-27	10/1/78	J. L. STONE	J. L. STONE
27	27	REVISED TO ADD PUMP P-28	10/1/78	J. L. STONE	J. L. STONE
28	28	REVISED TO ADD PUMP P-29	10/1/78	J. L. STONE	J. L. STONE
29	29	REVISED TO ADD PUMP P-30	10/1/78	J. L. STONE	J. L. STONE
30	30	REVISED TO ADD PUMP P-31	10/1/78	J. L. STONE	J. L. STONE
31	31	REVISED TO ADD PUMP P-32	10/1/78	J. L. STONE	J. L. STONE
32	32	REVISED TO ADD PUMP P-33	10/1/78	J. L. STONE	J. L. STONE
33	33	REVISED TO ADD PUMP P-34	10/1/78	J. L. STONE	J. L. STONE
34	34	REVISED TO ADD PUMP P-35	10/1/78	J. L. STONE	J. L. STONE
35	35	REVISED TO ADD PUMP P-36	10/1/78	J. L. STONE	J. L. STONE
36	36	REVISED TO ADD PUMP P-37	10/1/78	J. L. STONE	J. L. STONE
37	37	REVISED TO ADD PUMP P-38	10/1/78	J. L. STONE	J. L. STONE
38	38	REVISED TO ADD PUMP P-39	10/1/78	J. L. STONE	J. L. STONE
39	39	REVISED TO ADD PUMP P-40	10/1/78	J. L. STONE	J. L. STONE
40	40	REVISED TO ADD PUMP P-41	10/1/78	J. L. STONE	J. L. STONE
41	41	REVISED TO ADD PUMP P-42	10/1/78	J. L. STONE	J. L. STONE
42	42	REVISED TO ADD PUMP P-43	10/1/78	J. L. STONE	J. L. STONE
43	43	REVISED TO ADD PUMP P-44	10/1/78	J. L. STONE	J. L. STONE
44	44	REVISED TO ADD PUMP P-45	10/1/78	J. L. STONE	J. L. STONE
45	45	REVISED TO ADD PUMP P-46	10/1/78	J. L. STONE	J. L. STONE
46	46	REVISED TO ADD PUMP P-47	10/1/78	J. L. STONE	J. L. STONE
47	47	REVISED TO ADD PUMP P-48	10/1/78	J. L. STONE	J. L. STONE
48	48	REVISED TO ADD PUMP P-49	10/1/78	J. L. STONE	J. L. STONE
49	49	REVISED TO ADD PUMP P-50	10/1/78	J. L. STONE	J. L. STONE
50	50	REVISED TO ADD PUMP P-51	10/1/78	J. L. STONE	J. L. STONE
51	51	REVISED TO ADD PUMP P-52	10/1/78	J. L. STONE	J. L. STONE
52	52	REVISED TO ADD PUMP P-53	10/1/78	J. L. STONE	J. L. STONE
53	53	REVISED TO ADD PUMP P-54	10/1/78	J. L. STONE	J. L. STONE
54	54	REVISED TO ADD PUMP P-55	10/1/78	J. L. STONE	J. L. STONE
55	55	REVISED TO ADD PUMP P-56	10/1/78	J. L. STONE	J. L. STONE
56	56	REVISED TO ADD PUMP P-57	10/1/78	J. L. STONE	J. L. STONE
57	57	REVISED TO ADD PUMP P-58	10/1/78	J. L. STONE	J. L. STONE
58	58	REVISED TO ADD PUMP P-59	10/1/78	J. L. STONE	J. L. STONE
59	59	REVISED TO ADD PUMP P-60	10/1/78	J. L. STONE	J. L. STONE
60	60	REVISED TO ADD PUMP P-61	10/1/78	J. L. STONE	J. L. STONE
61	61	REVISED TO ADD PUMP P-62	10/1/78	J. L. STONE	J. L. STONE
62	62	REVISED TO ADD PUMP P-63	10/1/78	J. L. STONE	J. L. STONE
63	63	REVISED TO ADD PUMP P-64	10/1/78	J. L. STONE	J. L. STONE
64	64	REVISED TO ADD PUMP P-65	10/1/78	J. L. STONE	J. L. STONE
65	65	REVISED TO ADD PUMP P-66	10/1/78	J. L. STONE	J. L. STONE
66	66	REVISED TO ADD PUMP P-67	10/1/78	J. L. STONE	J. L. STONE
67	67	REVISED TO ADD PUMP P-68	10/1/78	J. L. STONE	J. L. STONE
68	68	REVISED TO ADD PUMP P-69	10/1/78	J. L. STONE	J. L. STONE
69	69	REVISED TO ADD PUMP P-70	10/1/78	J. L. STONE	J. L. STONE
70	70	REVISED TO ADD PUMP P-71	10/1/78	J. L. STONE	J. L. STONE
71	71	REVISED TO ADD PUMP P-72	10/1/78	J. L. STONE	J. L. STONE
72	72	REVISED TO ADD PUMP P-73	10/1/78	J. L. STONE	J. L. STONE
73	73	REVISED TO ADD PUMP P-74	10/1/78	J. L. STONE	J. L. STONE
74	74	REVISED TO ADD PUMP P-75	10/1/78	J. L. STONE	J. L. STONE
75	75	REVISED TO ADD PUMP P-76	10/1/78	J. L. STONE	J. L. STONE
76	76	REVISED TO ADD PUMP P-77	10/1/78	J. L. STONE	J. L. STONE
77	77	REVISED TO ADD PUMP P-78	10/1/78	J. L. STONE	J. L. STONE
78	78	REVISED TO ADD PUMP P-79	10/1/78	J. L. STONE	J. L. STONE
79	79	REVISED TO ADD PUMP P-80	10/1/78	J. L. STONE	J. L. STONE
80	80	REVISED TO ADD PUMP P-81	10/1/78	J. L. STONE	J. L. STONE
81	81	REVISED TO ADD PUMP P-82	10/1/78	J. L. STONE	J. L. STONE
82	82	REVISED TO ADD PUMP P-83	10/1/78	J. L. STONE	J. L. STONE
83	83	REVISED TO ADD PUMP P-84	10/1/78	J. L. STONE	J. L. STONE
84	84	REVISED TO ADD PUMP P-85	10/1/78	J. L. STONE	J. L. STONE
85	85	REVISED TO ADD PUMP P-86	10/1/78	J. L. STONE	J. L. STONE
86	86	REVISED TO ADD PUMP P-87	10/1/78	J. L. STONE	J. L. STONE
87	87	REVISED TO ADD PUMP P-88	10/1/78	J. L. STONE	J. L. STONE
88	88	REVISED TO ADD PUMP P-89	10/1/78	J. L. STONE	J. L. STONE
89	89	REVISED TO ADD PUMP P-90	10/1/78	J. L. STONE	J. L. STONE
90	90	REVISED TO ADD PUMP P-91	10/1/78	J. L. STONE	J. L. STONE
91	91	REVISED TO ADD PUMP P-92	10/1/78	J. L. STONE	J. L. STONE
92	92	REVISED TO ADD PUMP P-93	10/1/78	J. L. STONE	J. L. STONE
93	93	REVISED TO ADD PUMP P-94	10/1/78	J. L. STONE	J. L. STONE
94	94	REVISED TO ADD PUMP P-95	10/1/78	J. L. STONE	J. L. STONE
95	95	REVISED TO ADD PUMP P-96	10/1/78	J. L. STONE	J. L. STONE
96	96	REVISED TO ADD PUMP P-97	10/1/78	J. L. STONE	J. L. STONE
97	97	REVISED TO ADD PUMP P-98	10/1/78	J. L. STONE	J. L. STONE
98	98	REVISED TO ADD PUMP P-99	10/1/78	J. L. STONE	J. L. STONE
99	99	REVISED TO ADD PUMP P-100	10/1/78	J. L. STONE	J. L. STONE



TURKEY POINT NUCLEAR UNIT 4
INTAKE COOLING WATER SYSTEM

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
5814-M-3019
SHEET 2

POD

019
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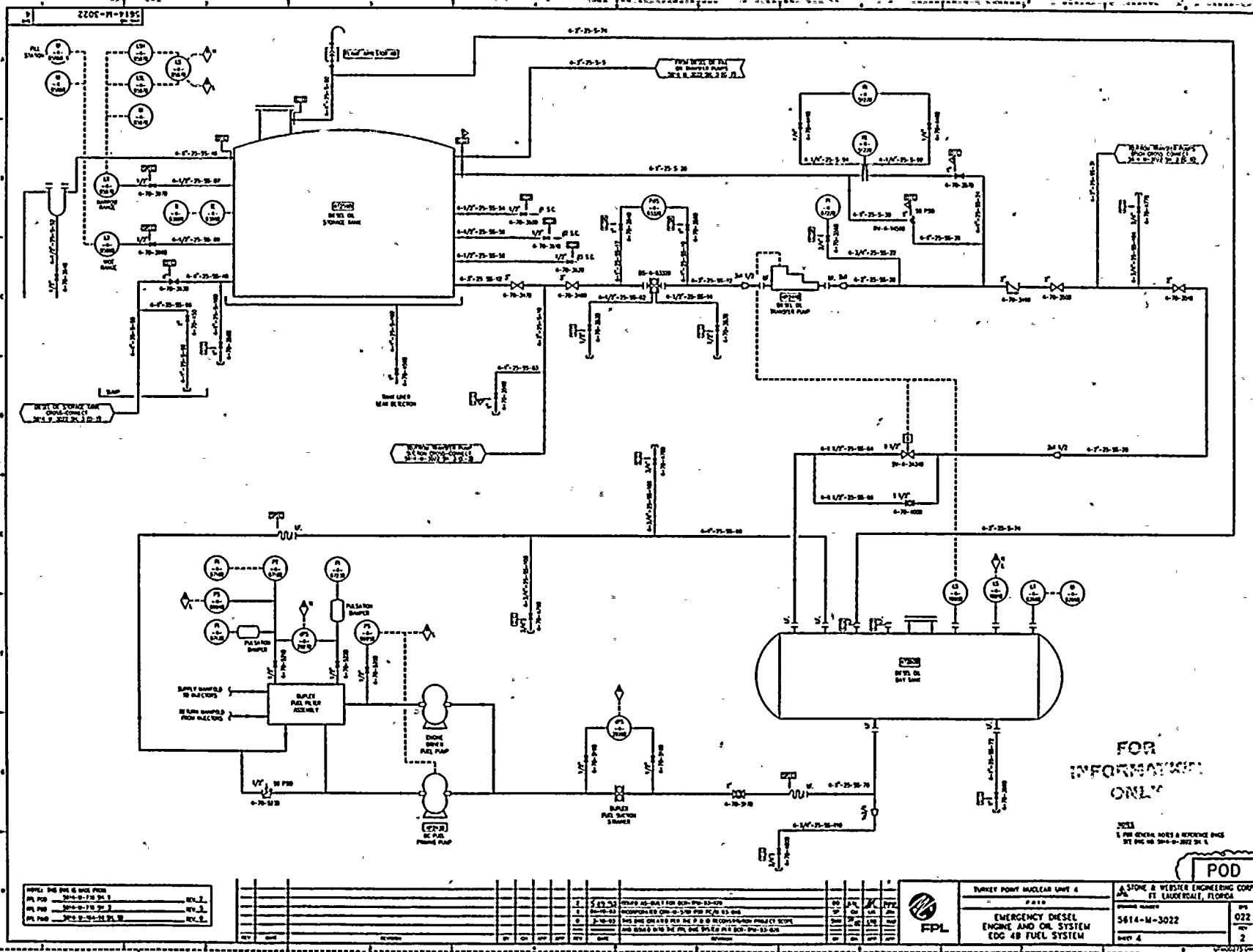












FOR
INFORMATION
ONLY

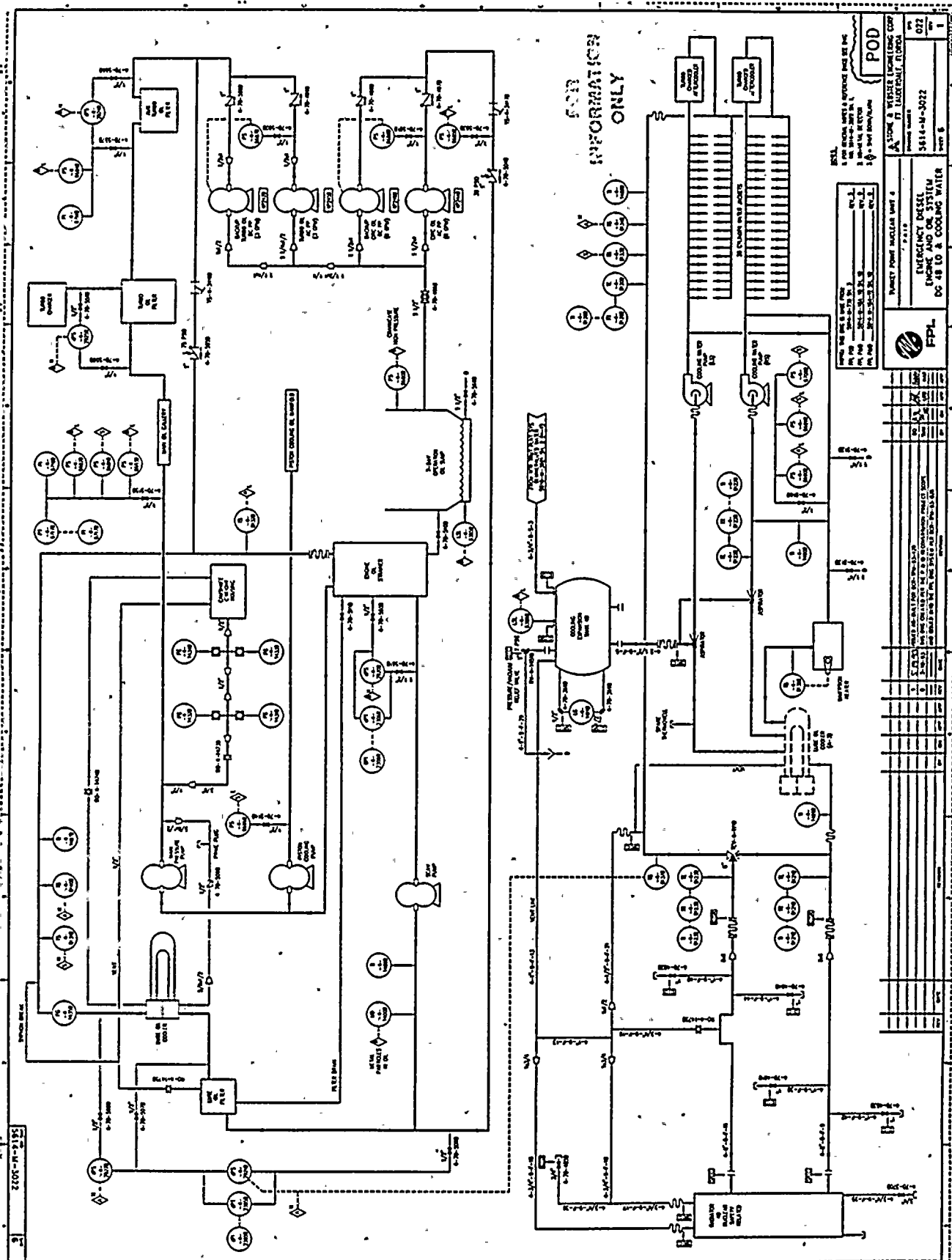
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1. FOR GENERAL NOTES & REFERENCE ONLY
2. SEE SHEET 5814-M-3022-2A.1

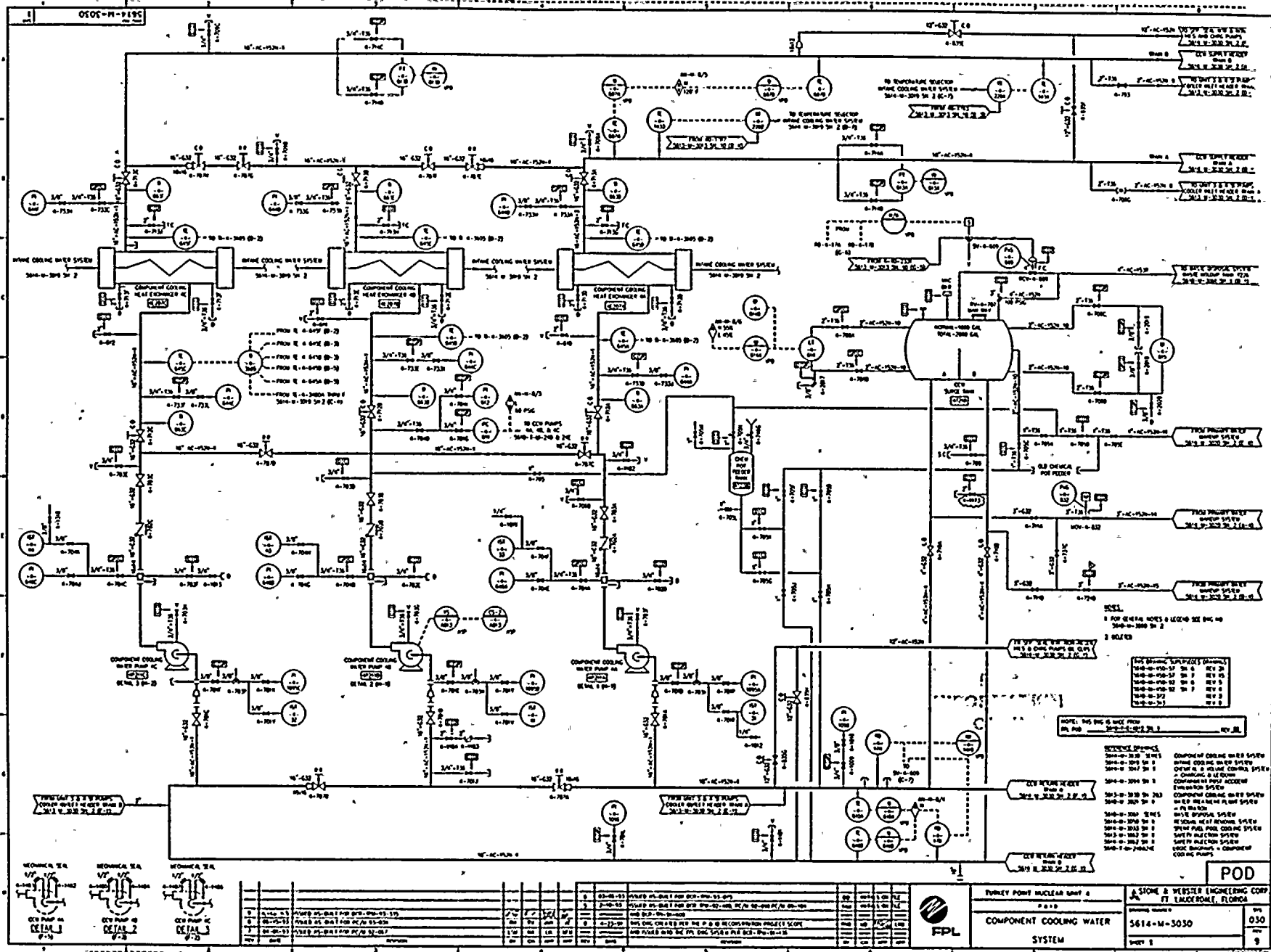
REVISION	DATE	BY	CHKD	APP'D
1	10/10/83	J. L. B.		
2	10/10/83	J. L. B.		
3	10/10/83	J. L. B.		
4	10/10/83	J. L. B.		
5	10/10/83	J. L. B.		
6	10/10/83	J. L. B.		
7	10/10/83	J. L. B.		
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9	10/10/83	J. L. B.		
10	10/10/83	J. L. B.		

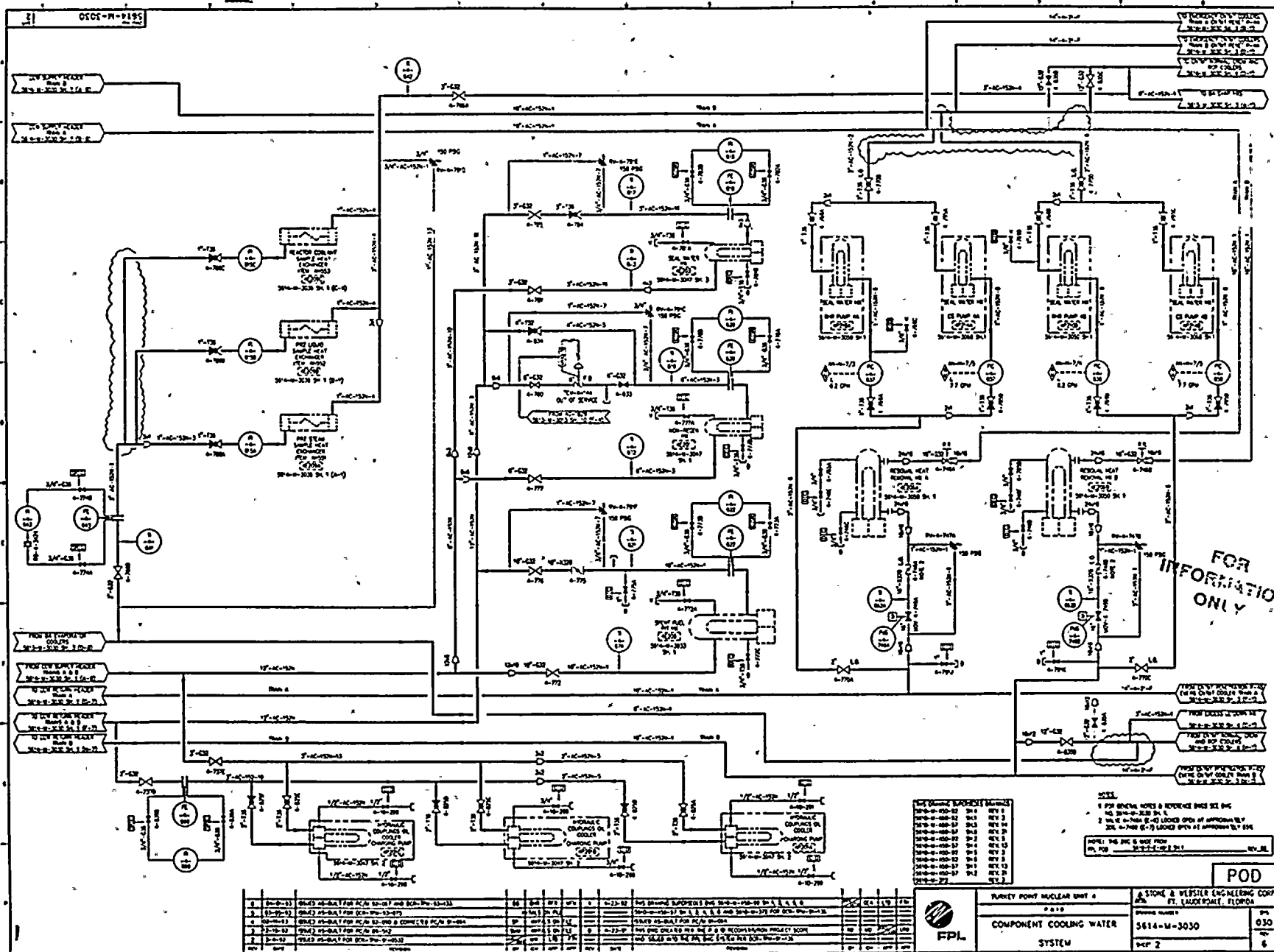
NO.	DESCRIPTION	DATE	BY	CHKD	APP'D
1	EDG OIL STORAGE TANK	10/10/83	J. L. B.		
2	DIESEL ENGINE	10/10/83	J. L. B.		
3	DIESEL OIL DAY TANK	10/10/83	J. L. B.		
4	PUMP MOTOR	10/10/83	J. L. B.		
5	EDG OIL STORAGE TANK	10/10/83	J. L. B.		
6	DIESEL ENGINE	10/10/83	J. L. B.		
7	DIESEL OIL DAY TANK	10/10/83	J. L. B.		
8	PUMP MOTOR	10/10/83	J. L. B.		
9	EDG OIL STORAGE TANK	10/10/83	J. L. B.		
10	DIESEL ENGINE	10/10/83	J. L. B.		

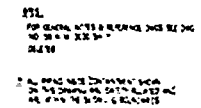
	TURKEY POINT NUCLEAR UNIT 4 P-110 EMERGENCY DIESEL ENGINE AND OIL SYSTEM EDG OIL FUEL SYSTEM	5814-M-3022 SHEET 4	022 2
	POD		
	STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA		
	DATE		











NOTE: THIS PAGE IS NOT FOR
 TX 200 _____ TX 200 _____
 TX 200 _____ TX 200 _____



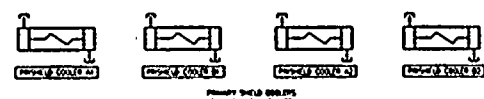
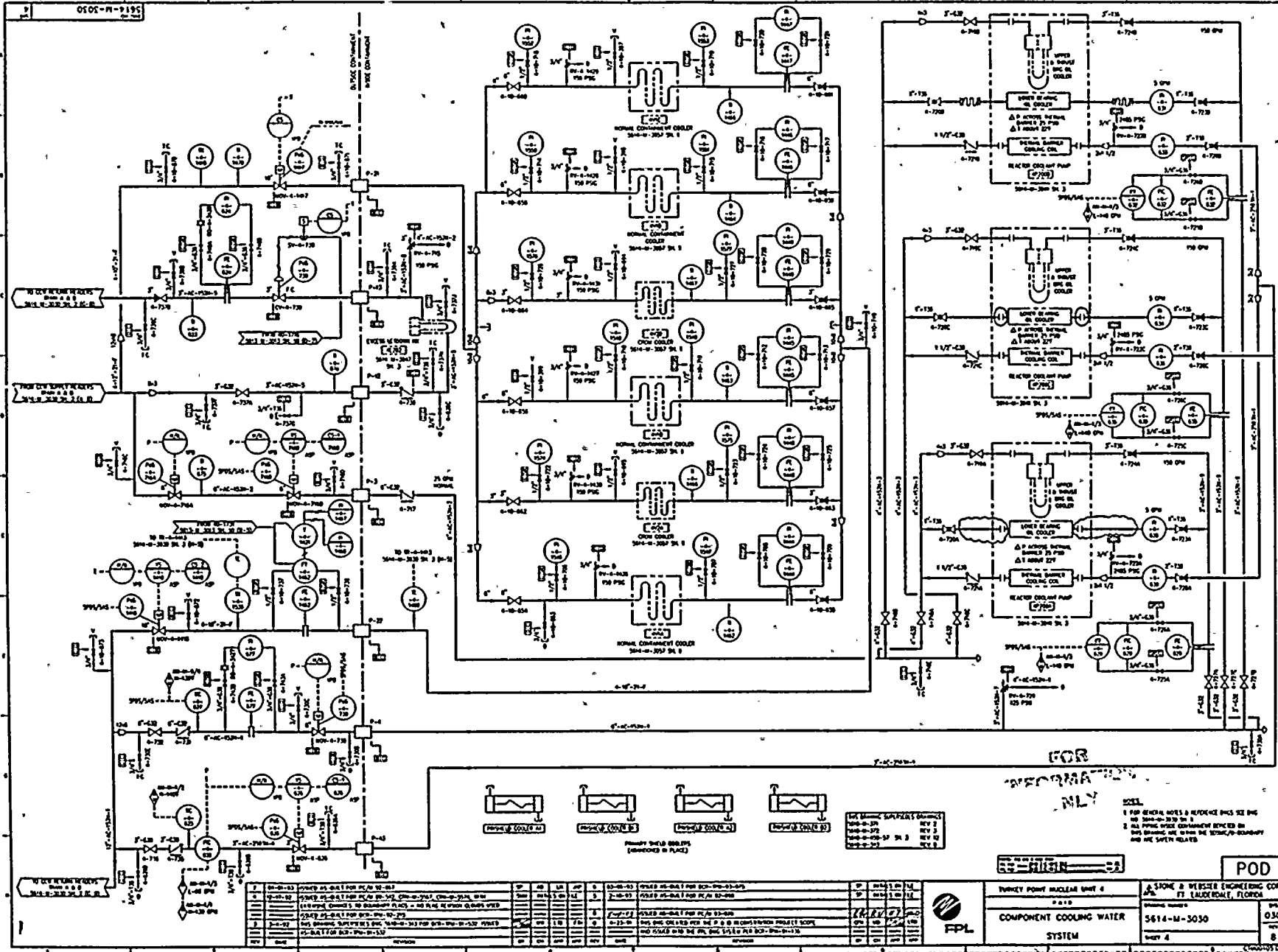
TURKEY POINT NUCLEAR UNIT 2
P-10
COMPONENT COOLING WATER
SYSTEM

A. STONE & WEBSTER ENGINEERING CORP APT. 1 371 LAUDERDALE, FLORIDA	
DRAWING NUMBER 5614-M-3030	DWG 030
DATE 1-27-75	REV 0

POD



0105-M-3030



REV	DATE	DESCRIPTION
1	10-10-63	ISSUED FOR DESIGN
2	11-10-63	ISSUED FOR CONSTRUCTION
3	12-10-63	ISSUED FOR OPERATION
4	01-10-64	ISSUED FOR MAINTENANCE

FOR
INFORMATION
ONLY

1. FOR GENERAL NOTES & REFERENCE SEE THE BNC
2. ALL PIPING SHALL BE CONFORMANT WITH THE BNC
3. THE DRAWING IS TO BE USED FOR THE BNC/A-3030-001
4. THE SYSTEM IS TO BE USED FOR THE BNC/A-3030-001

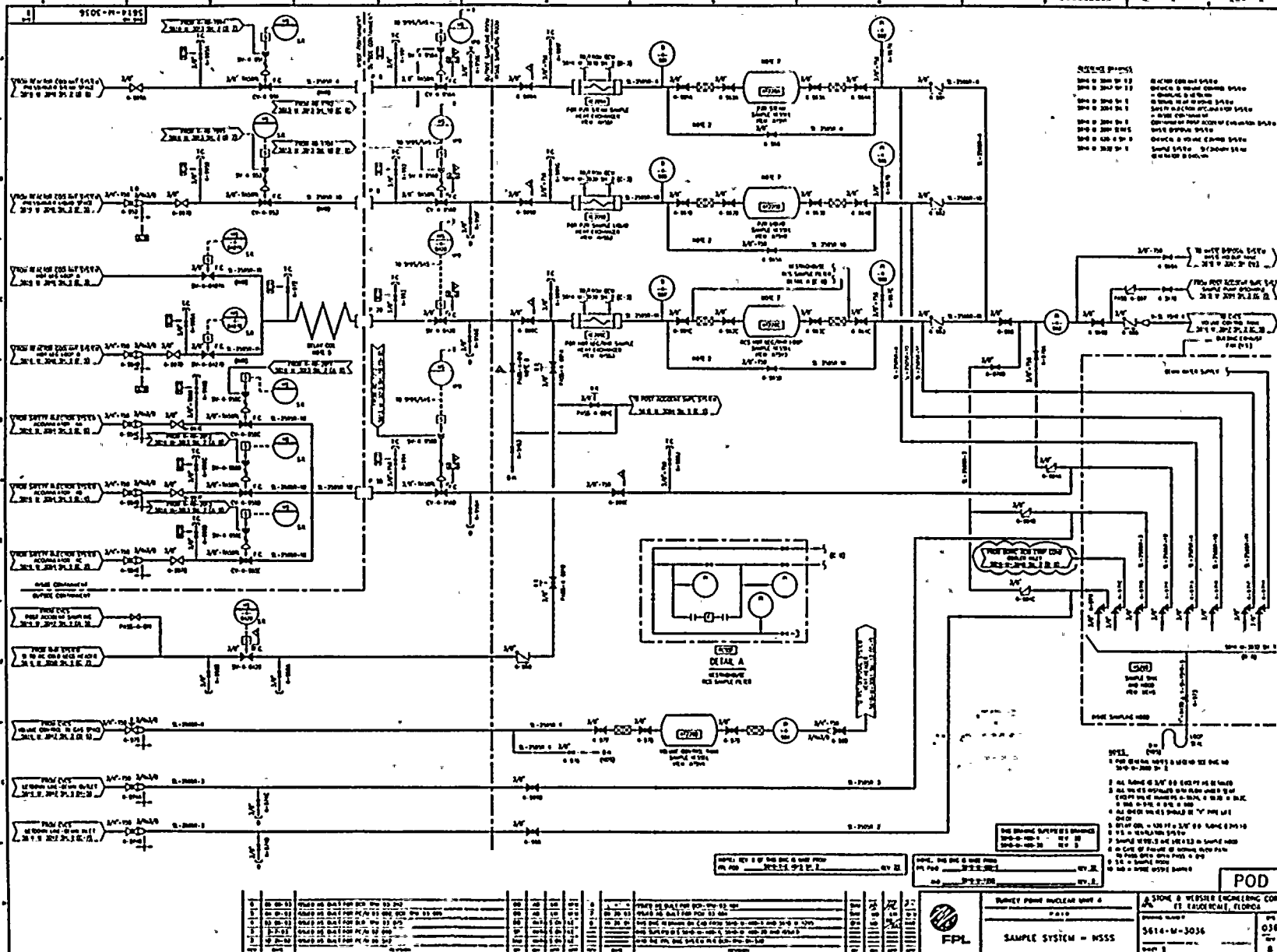
0105-M-3030

POD

THIRTY POINT NUCLEAR UNIT 4	ASHORE & WEBSTER ENGINEERING CORP.	030
COMPONENT COOLING WATER	5614-M-3030	8
SYSTEM	UNIT 4	



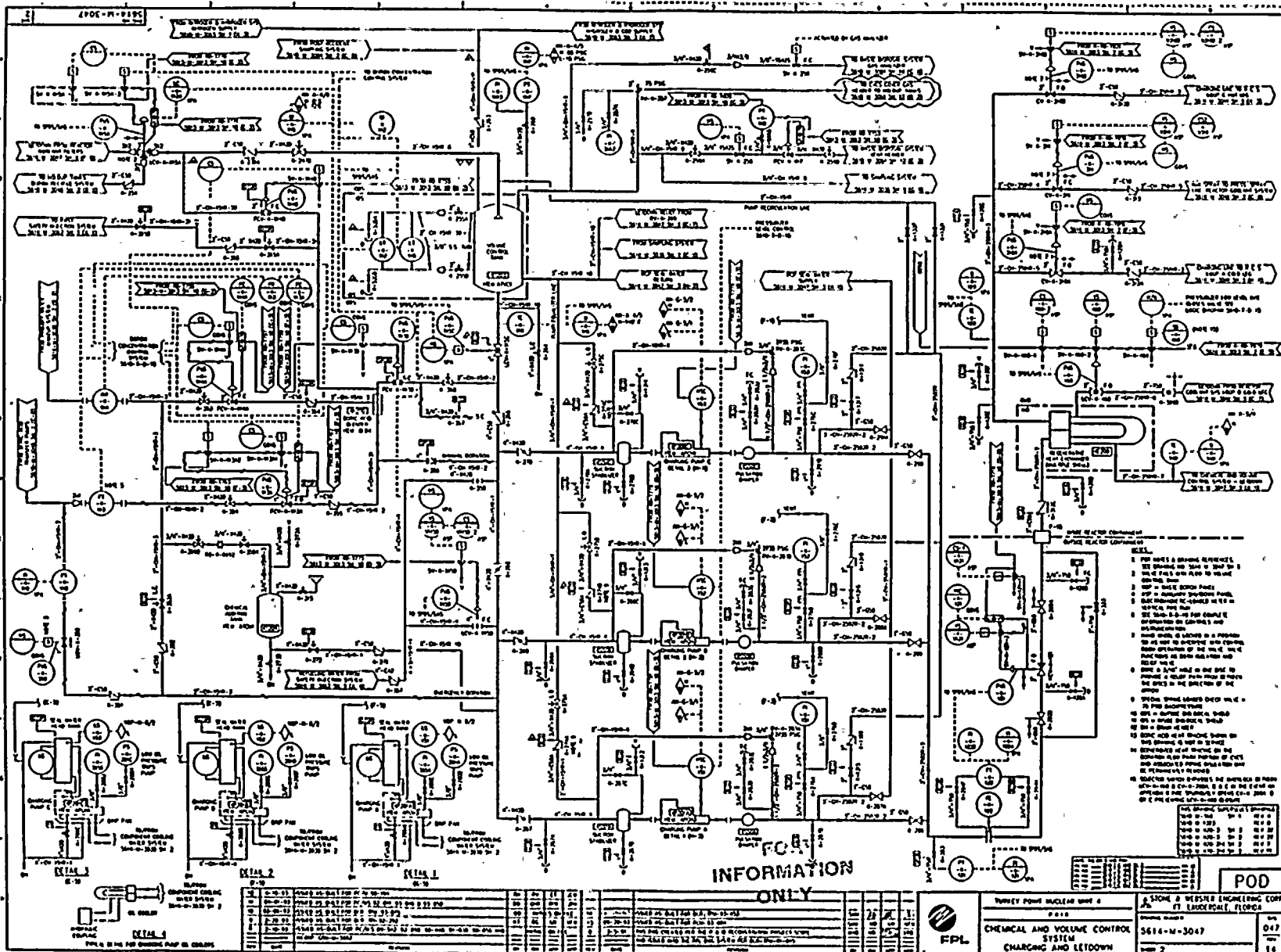










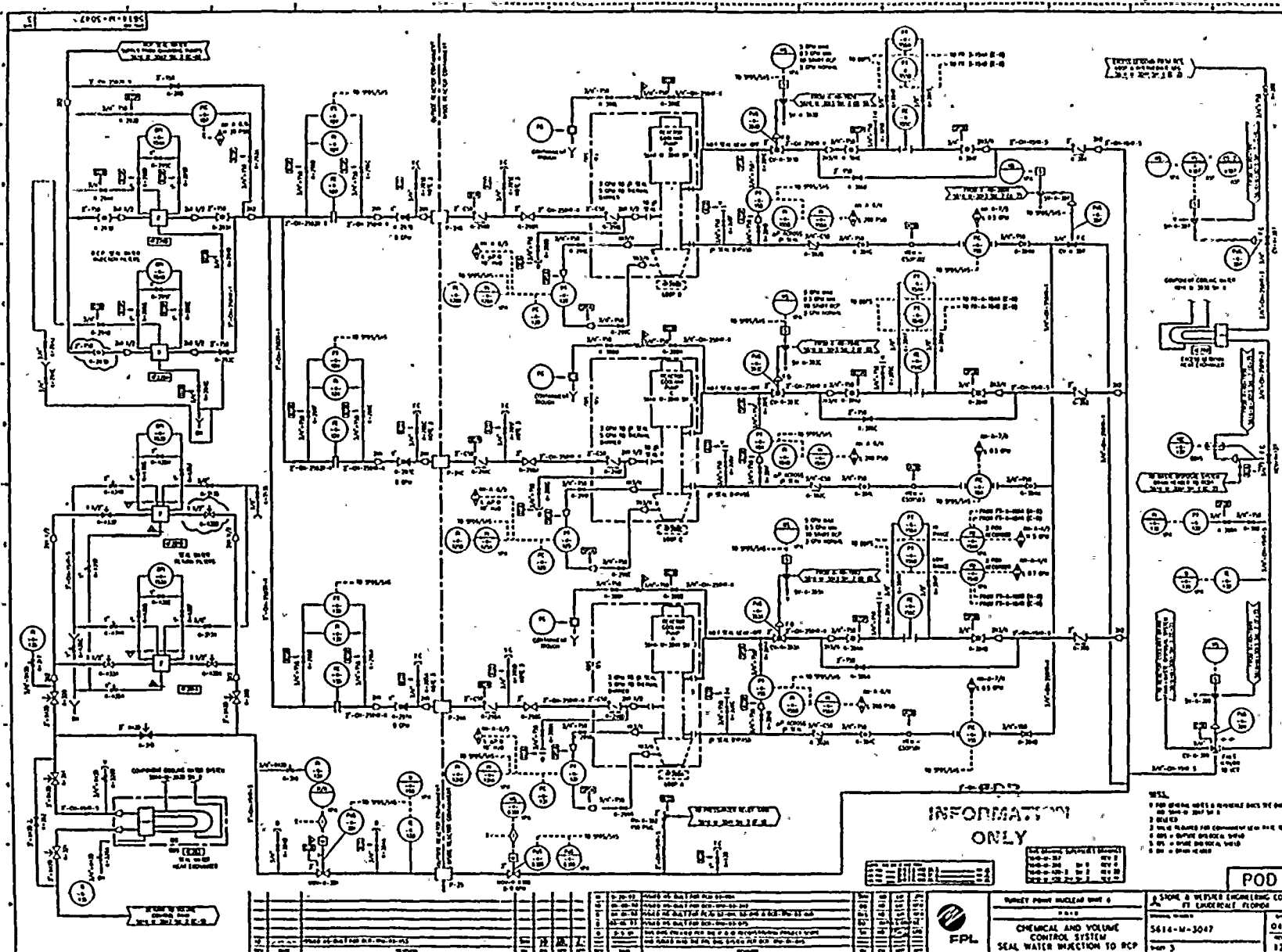


INFORMATION ONLY



TURNER POWER ENGINEERING CORP.
CHEMICAL AND VOLUME CONTROL SYSTEM
CHARGING AND LETDOWN

5614-M-3047
047
14



INFORMATION
ONLY

- WILL
- 1. FOR ORIGIN, MODEL, SERIAL, DATE, ETC.
 - 2. FOR NAME, ADDRESS, CITY, STATE, ZIP
 - 3. FOR TYPE
 - 4. FOR NAME, ADDRESS, CITY, STATE, ZIP
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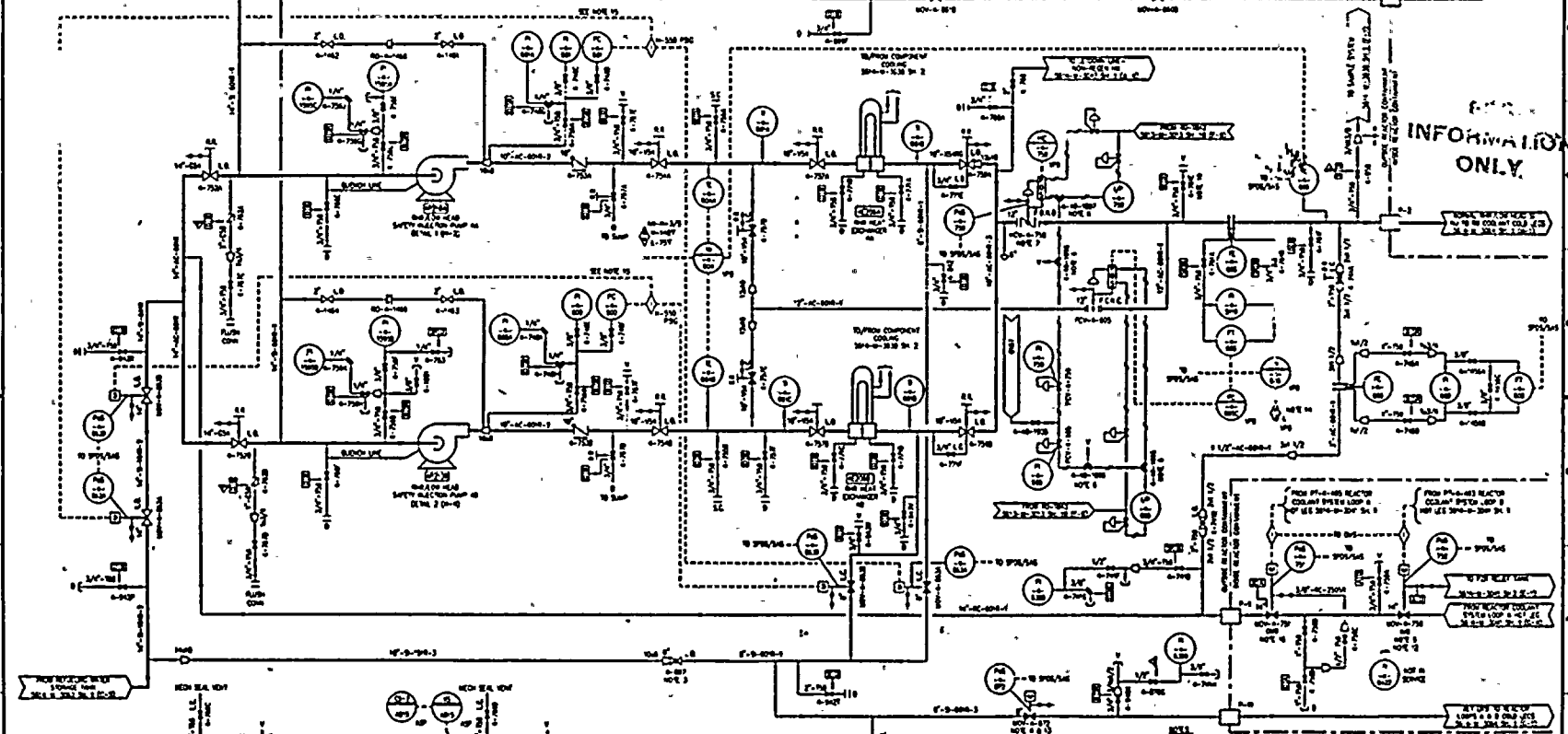


CHURCH POINT NUCLEAR UNIT 2
UNIT 2
CHEMICAL AND VOLUME
CONTROL SYSTEM
SEAL WATER INJECTION TO RCP

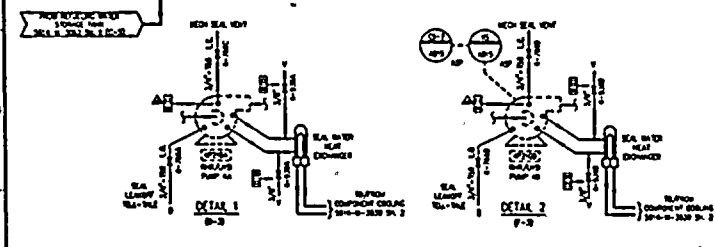
SCALE & WEIGHT ENGINEERING COPY
FT. LAUDERDALE, FLORIDA
5414-M-3047
PAGE 3

047
12

1. LOW ALARM SET AT 3000 GPM HIGH ALARM SET AT 3500 GPM
 2. DURING THE 7000 AND 10000 GPM AND 0 STAGE VALVES 0-10 AND 0-20 ARE CLOSED. TO PREVENT PREHEATING THE LINE TO HEAT 0-10 AND 0-20 VALVES 0-10 AND 0-20 ARE OPENED. TO PREVENT PREHEATING THE LINE TO HEAT 0-10 AND 0-20 VALVES 0-10 AND 0-20 ARE OPENED. TO PREVENT PREHEATING THE LINE TO HEAT 0-10 AND 0-20 VALVES 0-10 AND 0-20 ARE OPENED.



FOR INFORMATION ONLY



ITEM	DESCRIPTION	QTY	UNIT
1	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
2	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
3	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
4	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
5	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
6	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
7	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
8	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
9	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
10	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM

1. FOR GENERAL NOTES A-10000 SEE PAGE 10
 2. SEE PAGE 10 FOR GENERAL NOTES
 3. SEE PAGE 10 FOR GENERAL NOTES
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 5. SEE PAGE 10 FOR GENERAL NOTES
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1. FOR GENERAL NOTES A-10000 SEE PAGE 10
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ITEM	DESCRIPTION	QTY	UNIT
1	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
2	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
3	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
4	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
5	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
6	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
7	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
8	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
9	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM
10	RESIDUAL HEAT REMOVAL SYSTEM	1	SYSTEM

TURNER POINT NUCLEAR UNIT # 1

RESIDUAL HEAT REMOVAL SYSTEM

STONE & WILSON ENGINEERING CORP

17 LAUREL HILL, FLORIDA

5614-M-3050

Sheet 1

POD

050

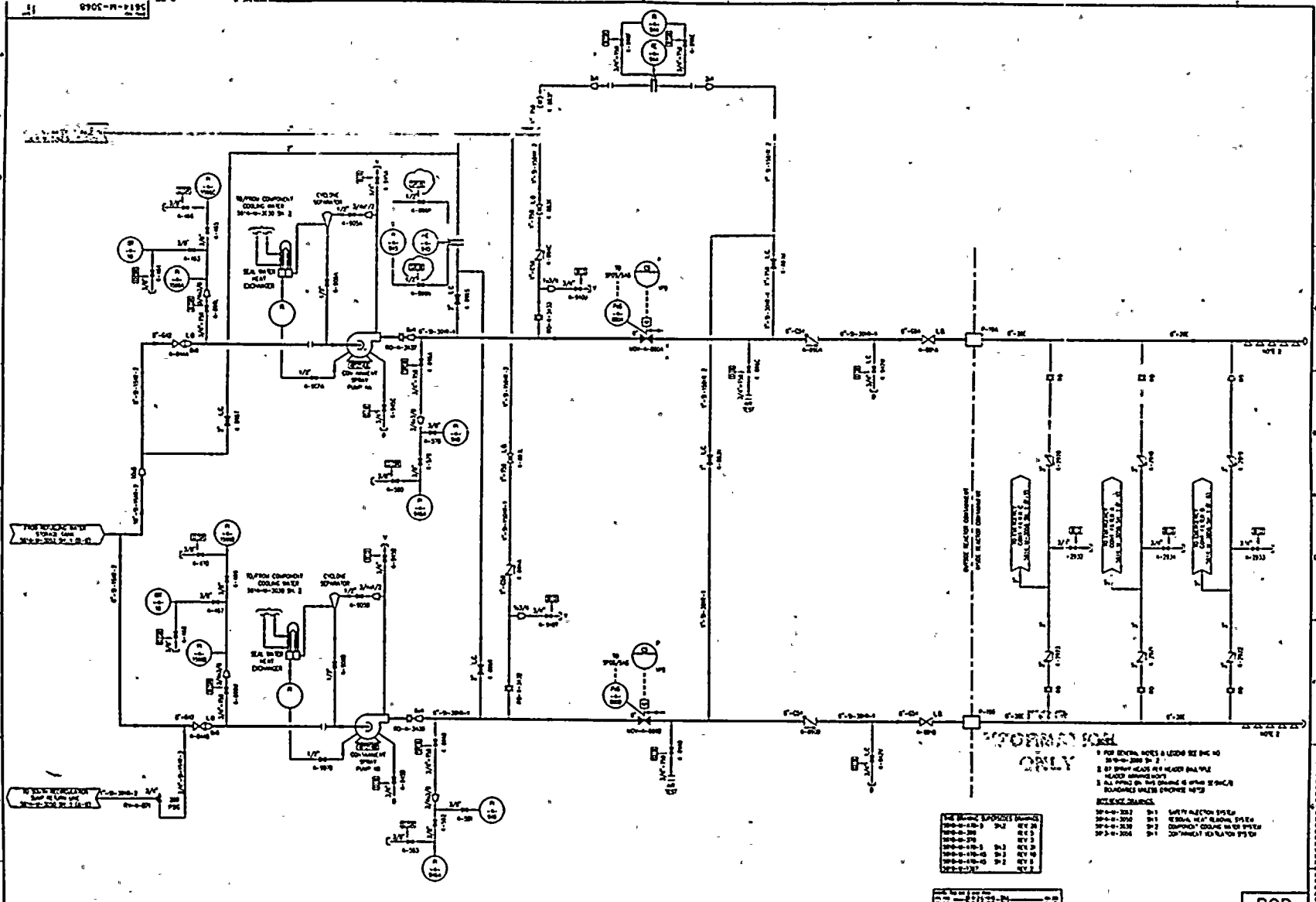
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9700-M-3048

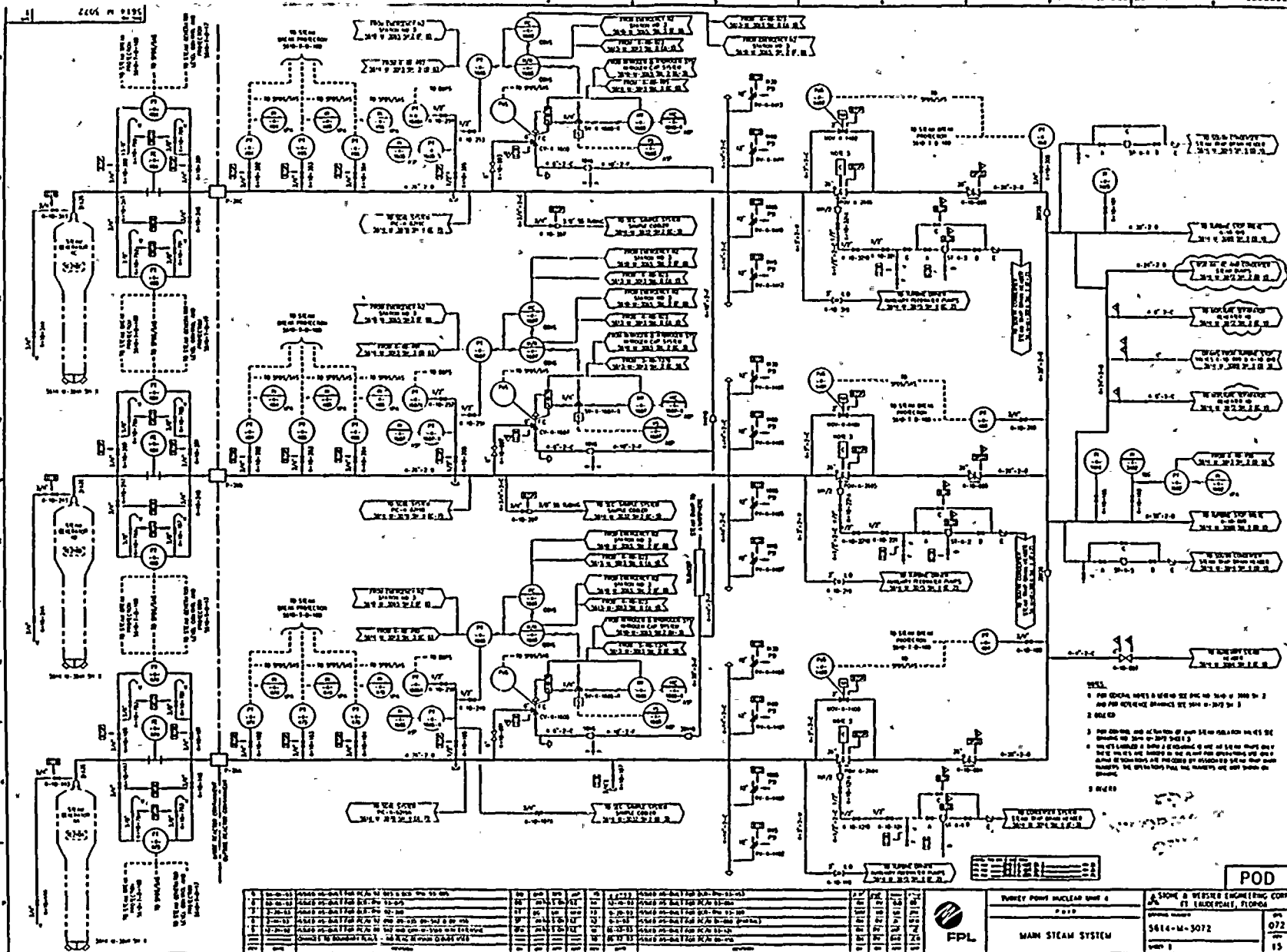


Flow Rate (GPM)	Pressure (PSI)
1000	100
800	80
600	60
400	40
200	20
100	10

- 1. FOR SPECIAL NOTES & LEGEND SEE SHEET 10
- 2. BY SYMBOLS AND NOT NEARLY
- 3. ALL SYMBOLS ON THIS DRAWING ARE FROM THE FOLLOWING LIST
- 4. SEE SHEET 10 FOR LEGEND
- 5. SEE SHEET 10 FOR LEGEND
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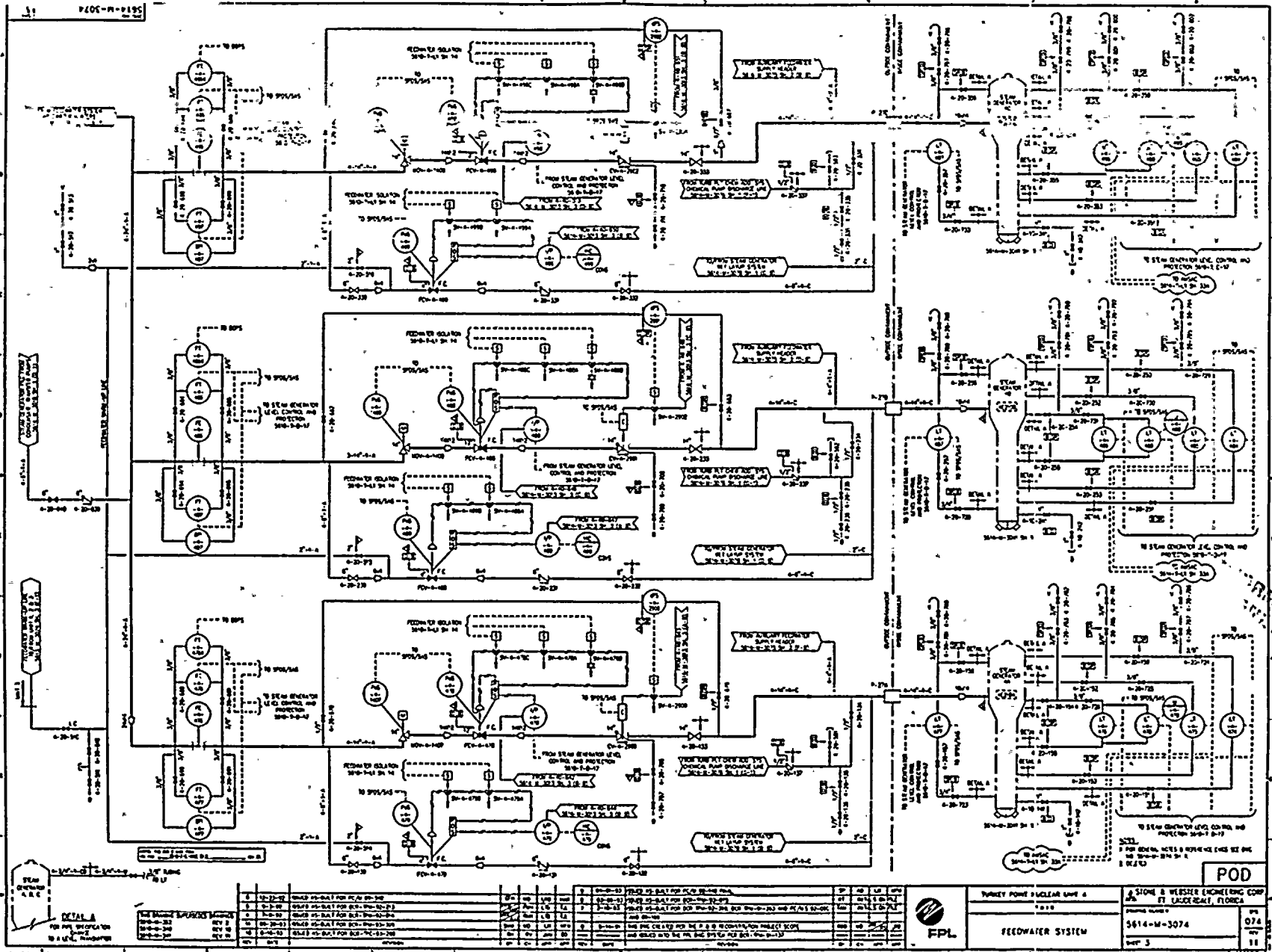
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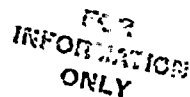
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 PROJECT NO. 5614-M-3074
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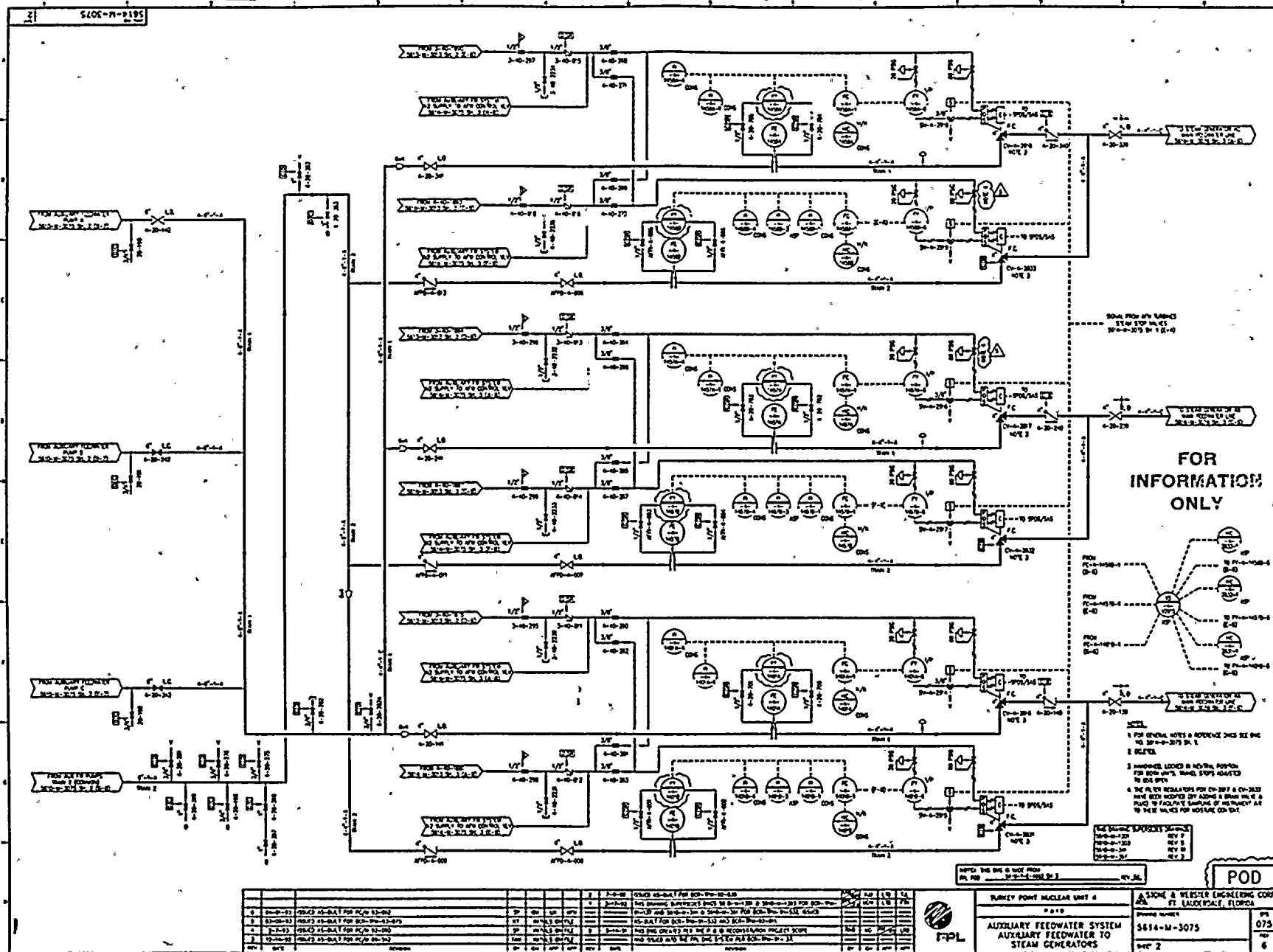
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REV	DATE	DESCRIPTION	BY	CHKD	APP'D
1	10-1-73	REVISED AS-BUILT FOR PUMP 12-002	ST	ST	ST
2	12-08-73	REVISED AS-BUILT FOR PUMP 12-003	ST	ST	ST
3	1-1-75	REVISED AS-BUILT FOR PUMP 12-004	ST	ST	ST
4	12-08-73	REVISED AS-BUILT FOR PUMP 12-005	ST	ST	ST

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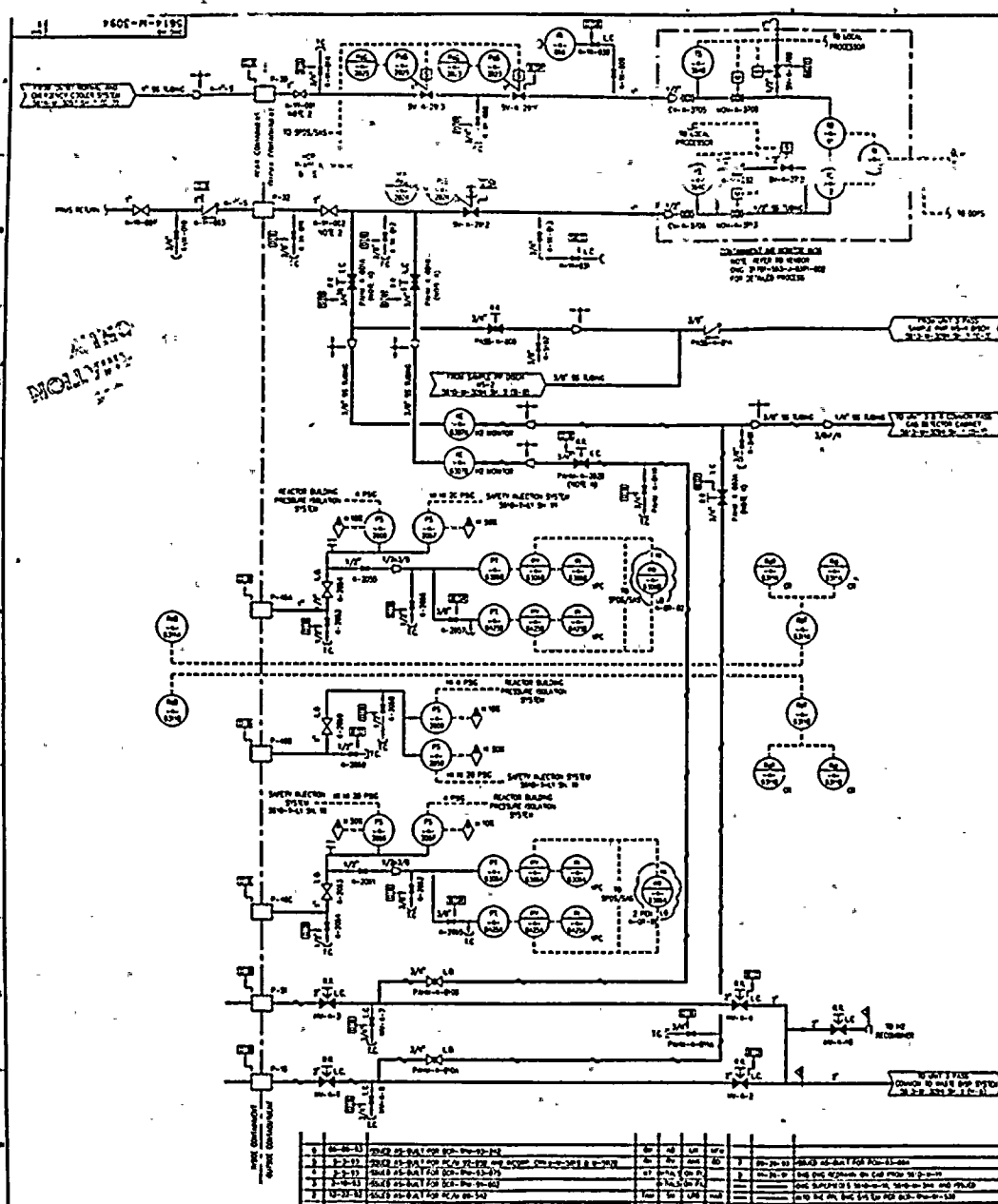
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NOTES

- FOR INSTALLATION, SEE THE CPAES INSTALLATION MANUAL.
- FOR INSTALLATION, SEE THE CPAES INSTALLATION MANUAL.
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NOTE: REV. 1 OF THE CPAES WERE MADE
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 REV. 3

NO.	DESCRIPTION	REV.	DATE	BY	CHKD.
1	CPAES WERE MADE	1	1978-11-15	J. L. JONES	J. L. JONES
2	CPAES WERE MADE	2	1978-11-15	J. L. JONES	J. L. JONES
3	CPAES WERE MADE	3	1978-11-15	J. L. JONES	J. L. JONES
4	CPAES WERE MADE	4	1978-11-15	J. L. JONES	J. L. JONES
5	CPAES WERE MADE	5	1978-11-15	J. L. JONES	J. L. JONES
6	CPAES WERE MADE	6	1978-11-15	J. L. JONES	J. L. JONES
7	CPAES WERE MADE	7	1978-11-15	J. L. JONES	J. L. JONES
8	CPAES WERE MADE	8	1978-11-15	J. L. JONES	J. L. JONES
9	CPAES WERE MADE	9	1978-11-15	J. L. JONES	J. L. JONES
10	CPAES WERE MADE	10	1978-11-15	J. L. JONES	J. L. JONES

	TURKEY POINT NUCLEAR UNIT 2 CONTAINMENT POST ACCIDENT EVALUATION SYSTEM	A. STONE & WHEELER ENGINEERING CO. 111 LAURELWOOD, FLORIDA
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