See Rpt.

Florida Power and Light Company ATTN: Mr. J. H. Goldberg President - Nuclear Division P. O. Box 14000 Juno Beach, FL 33408-0420

SUMMARY OF PUBLIC WORKSHOPS TO DISCUSS GENERIC LETTER 95-07, SUBJECT:

"PRESSURE LOCKING AND THERMAL BINDING OF SAFETY-RELATED

POWER-OPERATED GATE VALVES"

### Gentlemen:

In October and November 1995, the NRC staff conducted one-day public workshops in each Region to discuss Generic Letter (GL) 95-07, "Pressure Locking and Thermal Binding of Safety-Related Power-Operated Gate Valves." The workshops were attended by representatives of nuclear power plant licensees in the applicable Regions. Enclosure 1 is a list of meeting participants.

The Mechanical Engineering Branch of NRR, NRR Projects, the Office for the Analysis and Evaluation of Operational Data, the Mechanical Engineering Branch of the Office of Nuclear Regulatory Research, and Regional management and staff participated in the workshops. During each workshop, Regional and NRR management provided their perspectives on the issue of pressure locking and thermal binding, and expectations for licensee action in response to GL 95-07. NRC staff discussed past experience with pressure locking and thermal binding, and the recommendations in GL 95-07. Enclosure 2 includes the handouts from the staff presentations.

Personnel from several nuclear power utilities made presentations on their activities in response to the pressure locking and thermal binding issue. Enclosure 3 includes the handouts from the industry presentations.

At the conclusion of each meeting, the staff responded to questions from licensees regarding pressure locking and thermal binding. The most significant discussion topics are summarized below:

### <u>Actions, Schedules and Submittals</u>

1. The 90-day requested screening action in GL 95-07 was intended for the licensee to identify any critical deficiencies in the past evaluations of potential pressure locking and thermal binding that may have been conducted in response to industry, vendor or NRC communications. The licensee should use best available information and assure that the subject valves are operable. The staff considered that more detailed review and evaluation, and corrective actions, would be included as part of the 180-day requested action.

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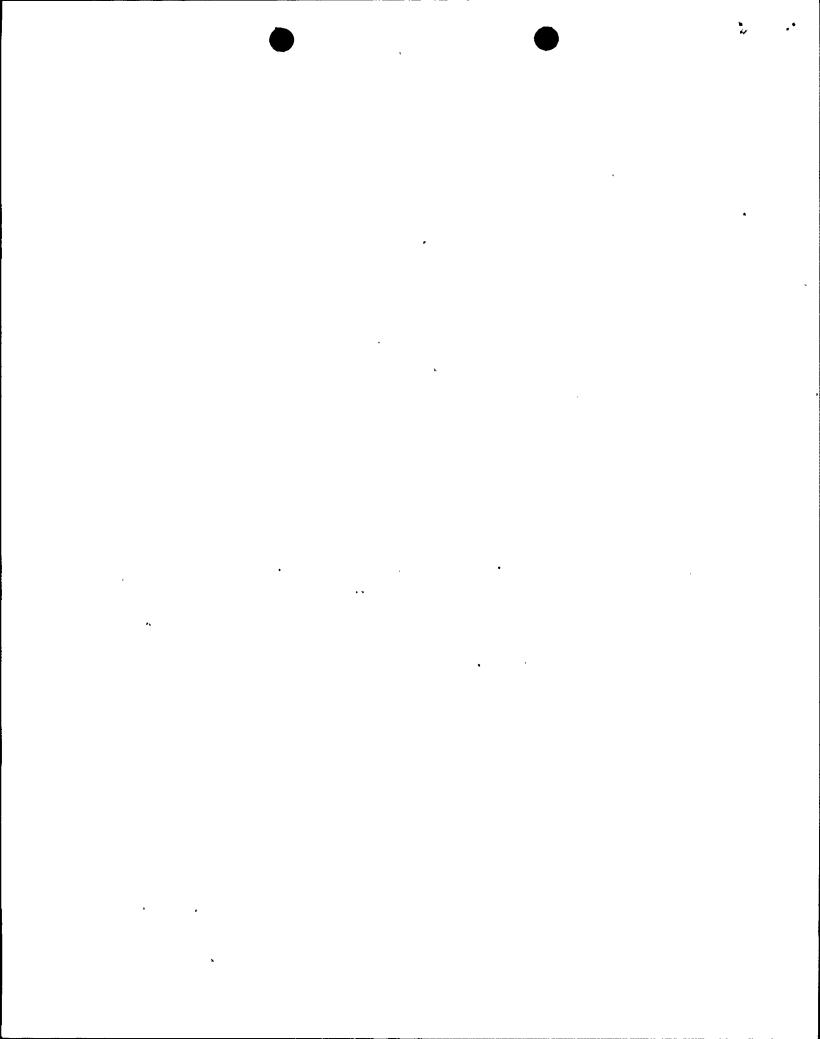
FP&L 2

2. The staff does not plan to extend the proposed schedule for completing the 180-day requested action of GL 95-07. If a licensee establishes corrective action plans as part of its 180-day response that are later determined to be unnecessary or inadequate based on ongoing industry testing and analyses, the licensee would be expected to notify the staff of the change to those plans and the basis for the change. As stated in GL 95-07, a licensee may consider risk significance and outage schedules in developing corrective action schedules. If an immediate operability concern does not exist and risk considerations are appropriate, a licensee might consider corrective action for one train at the next available outage and the other train at the following outage.

3. NRR staff will be conducting the principal review of licensee responses to GL 95-07 and detailed inspections at all facilities are not planned. The staff stated that information provided in response to the 180-day requested action would be most helpful if it briefly summarized the depth of the licensee's review, the susceptible valves by function and identification number, the corrective action completed and planned, and valves acceptable as installed and currently set. Detailed supporting data and calculations are not desired in the submittal but should be retained in plant records.

### Identifying Susceptible Valves

- 4. As yet, licensees have not presented an analytical method for predicting the thrust required to overcome pressure locking or thermal binding as part of a long-term resolution of the susceptibility of a valve to these phenomena. Based on the preliminary test verification efforts to date, the staff has not objected to licensees using one of the several industry analytical methods for predicting thrust requirements as part of an operability decision until a long-term solution can be achieved. However, if a licensee intends to rely on these analytical methods as a long-term solution, test verification will need to be completed.
- 5. GL 95-07 does not include a specific recommendation for the minimum temperature differential that could be assumed in predicting the occurrence of thermal binding of a gate valve. The staff considers the susceptibility of a gate valve to thermal binding to be a function of several valve-specific parameters, including gate valve type (i.e., solid or flexible wedge), differential temperature, temperature gradient across the valve and disk, the rate of change of temperatures, the valve size and rating, valve and disk material, and manufacturing tolerances. The staff does not believe that the presence of the same material for both the valve and disk would eliminate the need to consider the potential for thermal binding. The staff suggested that licensees contact their valve manufacturers for more-detailed information.
- 6. The staff believes that slow ambient temperature changes that normally occur in a nuclear power plant would not be a principal concern for pressure locking or thermal binding, provided the valve has not experienced such problems under these conditions and there are no potential significant heating or cooling sources near the valve.



FP&L 3 7. The staff recognizes that conflicting industry test information exists

- regarding the potential increase in valve bonnet pressure as the temperature of the fluid in the bonnet increases. The industry and staff are both conducting additional tests in this area. The staff believes that, until the pressure versus temperature relationship can be resolved, the pressure rise can be assumed to be significant if the valve bonnet is water solid. However, if a licensee can demonstrate that a small amount of air is present in the valve bonnet, the pressure rise will be minimal except in the case of large temperature changes. A licensee might establish a program to monitor air in the valve bonnet as part of a longterm resolution plan.
- 8. One or more check valves might not prevent pressure increase in piping between the check valve and the gate valve being evaluated for potential pressure locking. A significant length of piping might mitigate the pressure increase over the time interval between gate valve stroking as part of IST or plant operations. Gate and globe valves with continuous seating force will minimize the potential for significant pressure increase in the piping between these valves and the valve being evaluated for pressure locking, provided inservice test results and methods (e.g., instrumentation) to reveal the pressure increase are considered.
- The staff recognizes that leakage from the valve bonnet around the valve disk or packing can reduce pressure over time. The staff believes that licensees may be able to justify reliance on such leakage for valves that are first called upon to operate following a significant time interval after the event that might have caused a pressure locking situation to develop.

### Responding to Susceptible Valves

- The staff believes that valve-specific information could be useful in addressing whether any immediate concern exists regarding a valve found to be susceptible to pressure locking or thermal binding, provided the valve is normally operated under conditions that might cause these phenomena. The staff noted that the licensee would need to address capability of the actuator under degraded voltage conditions, if applicable, and structural and electrical capability from accelerated wear or fatigue, over the long term.
- If a licensee declares a valve inoperable when conducting surveillance 11. testing and follows its plant technical specifications, the provisions of GL 95-07 to address pressure locking and thermal binding during surveillance testing would not apply. If the valve is to remain operable during surveillance testing, the licensee should address the possibility of pressure locking or thermal binding during the conduct of the surveillance. The staff believes that licensees may be able to more readily address the susceptibility of the valve to pressure locking and thermal binding during surveillance testing (e.g., low likelihood of thermally induced pressure locking or thermal binding during the surveillance test).

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Regarding surveillance testing and operability of safety-related valves, the staff pointed out that if a system (train) is to be considered operable during the conduct of a surveillance test, then safety-related valves in the system (train) must be capable of repositioning as necessary in response to an engineered safeguards signal. If the licensee cannot assure the valve is capable of repositioning during surveillance, they should declare the system (train) inoperable during surveillance and apply the technical specification LCO. [In a safety evaluation dated October 16, 1995, addressing the scope of the GL 89-10 program at the Hatch nuclear plant, the staff stated that a motor-operated valve placed in a position that prevents the safety-related system (or train) from performing its safety function must be capable of returning to its safety position, or the system (or train) must be declared inoperable.]

- 12. The staff noted that licensees should address potential adverse effects of proposed corrective action to respond to the susceptibility of a gate valve to pressure locking or thermal binding. The staff discussed an example from one plant where a hole drilled in a valve disk had to be filled because check valve leakage resulted in a flow path from the refueling water storage tank to the reactor building sump.
- 13. The staff referred licensees to GL 91-18 regarding inappropriate reliance on risk assessments in determining the operability of a safety-related valve.
- 14. The staff referred licensees to GL 91-18 for the use of manual action to ensure the capability of equipment. The staff noted difficulties in implementing manual action with respect to operating valves that might be pressure locked or thermally bound. For example, high pressure fluid and adverse environments could cause manual action to be unsafe to maintenance personnel and to be difficult to implement.

### <u>Miscellaneous</u>

- 15. The staff is conducting research on various aspects of the pressure locking and thermal binding phenomena. Results of the staff's research will be made available to the industry via generic communication or industry symposia.
- 16. The staff discussed a recent AEOD report alerting licensees to the potential for damaging valves under surveillance test conditions that exceed design-basis conditions. The AEOD report is included as Enclosure 4 to this meeting summary. The staff also noted that preparation for maintenance or surveillance testing could initiate a pressure locking or thermal binding situation.

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Comments from workshop participants indicated that the workshops were highly beneficial in increasing licensee understanding of staff expectations regarding GL 95-07 and in promoting the exchange of technical information on the pressure locking and thermal binding issue.

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Sincerely, ORIGINAL SIGNED BY DAVID VERRELLI FOR:

Paul E. Fredrickson, Chief Special Inspection Branch Division of Reactor Safety

Docket Nos. 50-335, 50-389 50-250, and 50-251

License Nos. DPR-67, NPF-16 DPR-31, and DPR-41

Enclosures: As Stated

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### GENERIC LETTER 95-07 PUBLIC WORKSHOP PARTICIPANTS

### NAME

### **ORGANIZATION**

### All 4 Workshops

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	lathbun	NRC/NRR
E. B	rown .	NRC/AEOD

### Region I Workshop

Vē	dion I workshop	s
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	Kelly	NRC/Region I
	Bower	NRC/Region I
_	Dempsey	NRC/Region I
	Reyes	NRC/Region I
	Chan	NRC/NRR
L.	Dudes .	NRC/NRR
R.	Eaton	NRC/NRR
C.	Poslusny	NRC/NRR
	Wang	NRC/NRR
	Weidenhamer	NRC/RES
T.	Kenny	NRC/Region I
K.	Kolaczyk	NRC/Region I
D.	Hoy	NRC/Region I
J.	Osborne	BGE .
	Robinson	BGE
J.	Szivos	BGE
	Jerz'	Boston Edison
J.	Tucker '	Boston Edison
	Doyle	Boston Edison
W.	Kline	Boston Edison
	Cona ·	ConEd
	Lomar	ConEd
	Mah .	ConEd
	Shah	ConEd
	Loehlein	Duquesne Light Company
	Slifkin	Duquesne Light Company
Ε.	Coholich	Duquesne Light Company
R.	McGoey	GPU Nuclear
	Correa	GPU Nuclear
J.	Tabone	.GPU Nuclear
	Abramovici	GPU Nuclear
В.	Knight	GPU Nuclear
	Carroll	GPU Nuclear
J.	Bashista	GPU Nuclear
S:	Parsons	GPU Nuclear
	Lord	MYAPC
S.	Nichols	MYAPC -
D.	Whittier	MYAPC
F.	Martsen	NYPA
Ρ.	Swinburne	NYPA
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B. Buteau VY Nuclear Power
J. Callaghan VY Nuclear Power
T. Miller VY Nuclear Power
J. Duffy Yankee Atomic Nuclear Power
S. McConarty Yankee Atomic Nuclear Power

### Region II Workshop

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W. Wilton	CP&L
G. Thearling	CP&L
F. Setzer	Duke Power
K. Beasley	Duke Power
D. King	Duke Power
S. Hart	Duke Power
V. Haramis	Duke Power
· O. Hanek	FP&L
	FP&L
W. Bryan	* * ***
K. Ledzian	Florida Power Corp.
S. Powell	Florida Power Corp.
B. Naumria	Georgia Power
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Georgia Power P. Grissom Georgia Power J. Dailey SC&G G. Williams SC&G R. Justice SC&G J. Pease Southern Company D. Ray Southern Nuclear G. Talton Southern Nuclear S. Gates Southern Nuclear J. Daniels Southern Nuclear O. Vidal TVA R. Golub **TVA** J. Elmerick TVA R. Poole TVA T. Chan TVA H. Benninghoff Virginia Power B. DeMars Virginia Power E. May INPO A. Szczepaniec M. Kalsi Kalsi Engineering

### Region III Workshop

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IES - Duane Arnold

INEL M. Holbrook I&M Power A. Gort IONS N. Howey IPCO J. Puzauskas NSP - Monticello K. Peterson NSP - Prairie Island R. Wirkkala PUCO J. Vitellas . S&L A. Heliqi TECO D. Blakely TECO - Davis Besse B. Gallatin TECO - Davis Besse N. Peterson Vectra Tech. P. Young WEPCO - Point Beach WEPCO - Point Beach J. Roberts T. Ruiz WPSCO - Kewaunee B. Heida WPSCO - Kewaunee E. Leinheiser

### Region IV Workshop

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I. Ezekoye

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T. Raidy E. David Southern Cal. Edison T. Hoyle Supply System J. Barker Texas Utilities Texas Utilities Texas Utilities B. Black R. Cockrel Texas Utilities O. Bhatty Texas Utilities D. Dillinger Wolf Creek D. Weninger **ERIN** Engineering E. Simbles C. Sellers
D. Phillips . ERIN Engineering

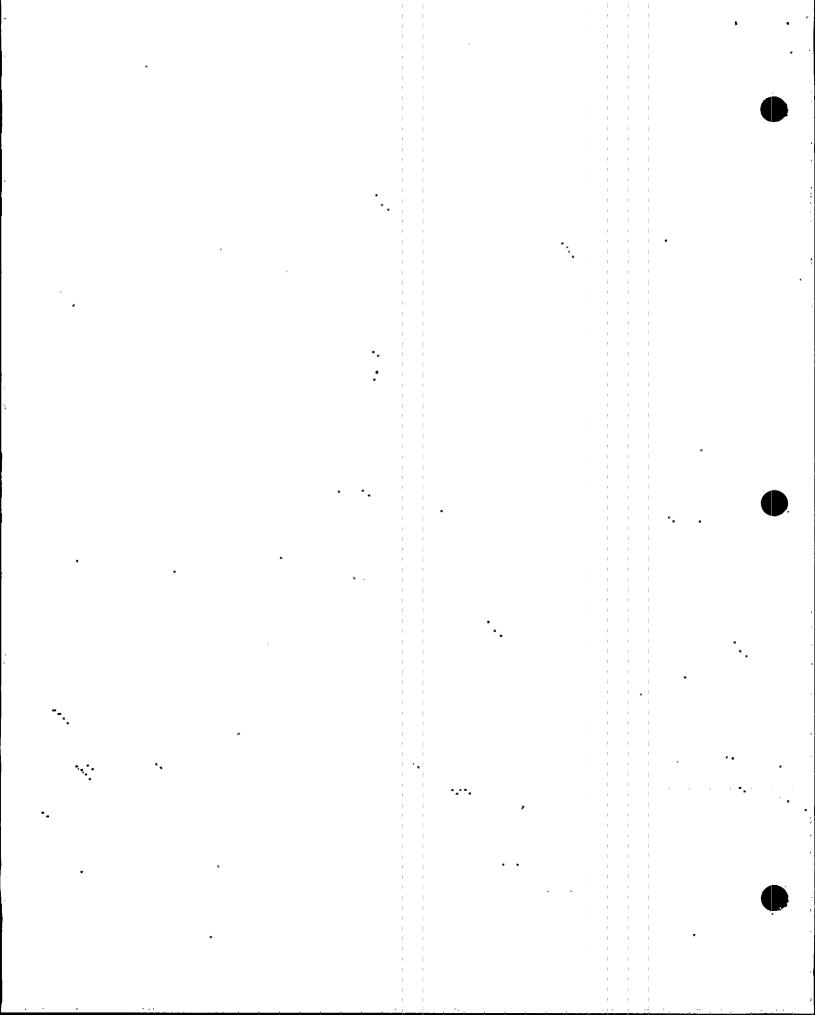
ERIN Engineering

Lincoln Electric Systems

Westinghouse Corp.

# PUBLIC WORKSHOP ON GENERIC LETTER 95-07, "PRESSURE LOCKING AND THERMAL BINDING OF SAFETY-RELATED POWER-OPERATED GATE VALVES"

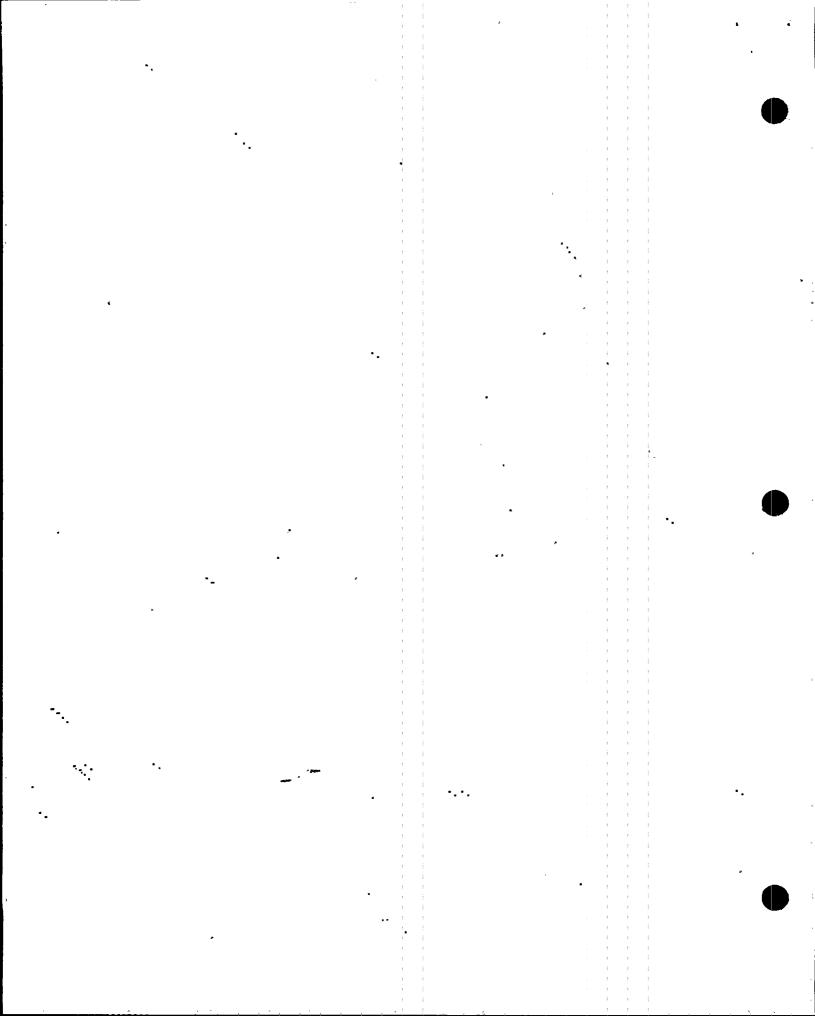
REGION I November 2, 1995 REGION II October 24, 1995 REGION III November 7, 1995 REGION IV November 9, 1995



### NRR MANAGEMENT PERSPECTIVE ON PRESSURE LOCKING AND THERMAL BINDING

Richard H. Wessman/ Terence L. Chan

Mechanical Engineering Branch
Division of Engineering
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission



### NRR MANAGEMENT PERSPECTIVE

### SAFETY SIGNIFICANCE

NRC CONSIDERS PRESSURE LOCKING AND THERMAL BINDING TO BE A SAFETY SIGNIFICANT ISSUE SINCE IT REPRESENTS A POTENTIAL COMMON FAILURE MODE OF A SYSTEM OR SYSTEMS

- VERMONT YANKEE [CORE SPRAY INJECTION VALVES]
- MILLSTONE 2 [CONTAINMENT SUMP RECIRCULATION VALVES]; IN 95-14 ISSUED
- HADDAM NECK [SAFETY INJECTION VALVES];
   IN 95-18 ISSUED

### NRR MANAGEMENT PERSPECTIVE

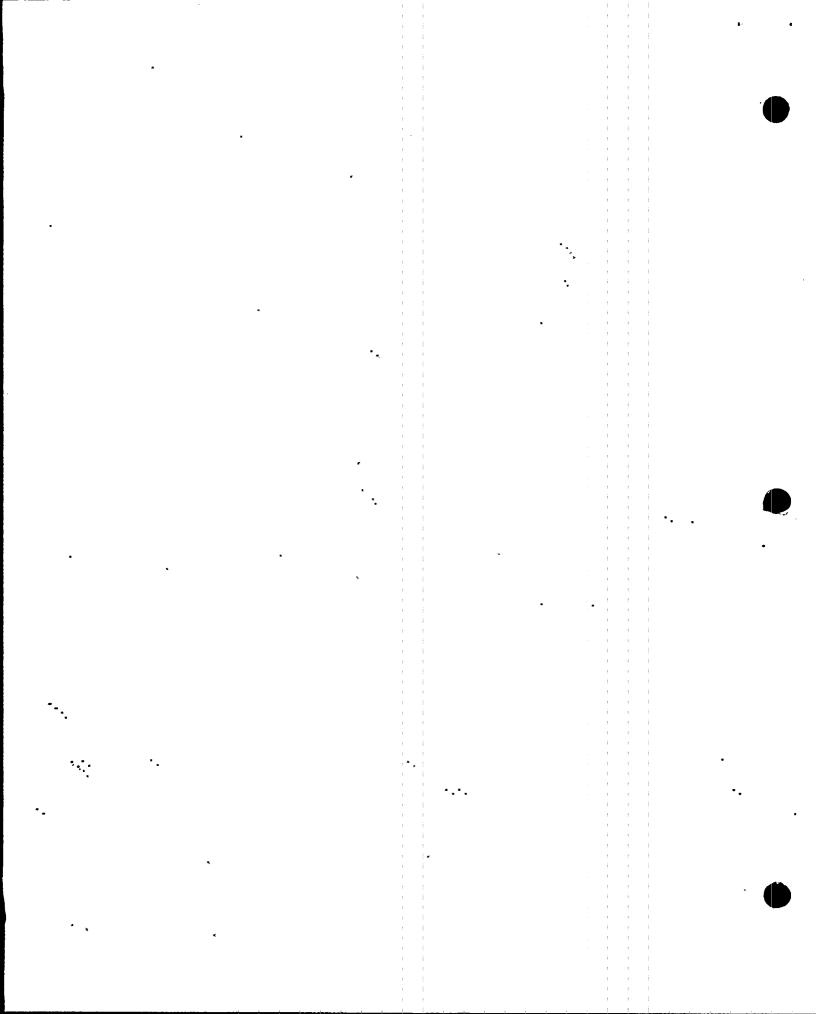
### **HISTORY**

- NRC COMMUNICATIONS
  - o IE CIRCULAR 77-05 (MARCH 29, 1977)
  - o IN 81-31 (OCTOBER 8, 1981)
  - o IN 92-26 (APRIL 2, 1992)
  - o NUREG-1275, VOL. 9 (MARCH 1993)
  - o GENERIC LETTER 89-10 (JUNE 25, 1989)
  - O GL 89-10, SUPPLEMENT 6 (MARCH 8, 1994)
- INDUSTRY COMMUNICATIONS
  - O GE SIL-368 (DECEMBER 1981)
  - O INPO SOER 84-7 (DECEMBER 14, 1984)
- ACTIONS PERFORMED IN RESPONSE TO GL 89-10

### NRR MANAGEMENT PERSPECTIVE

### RESOLUTION

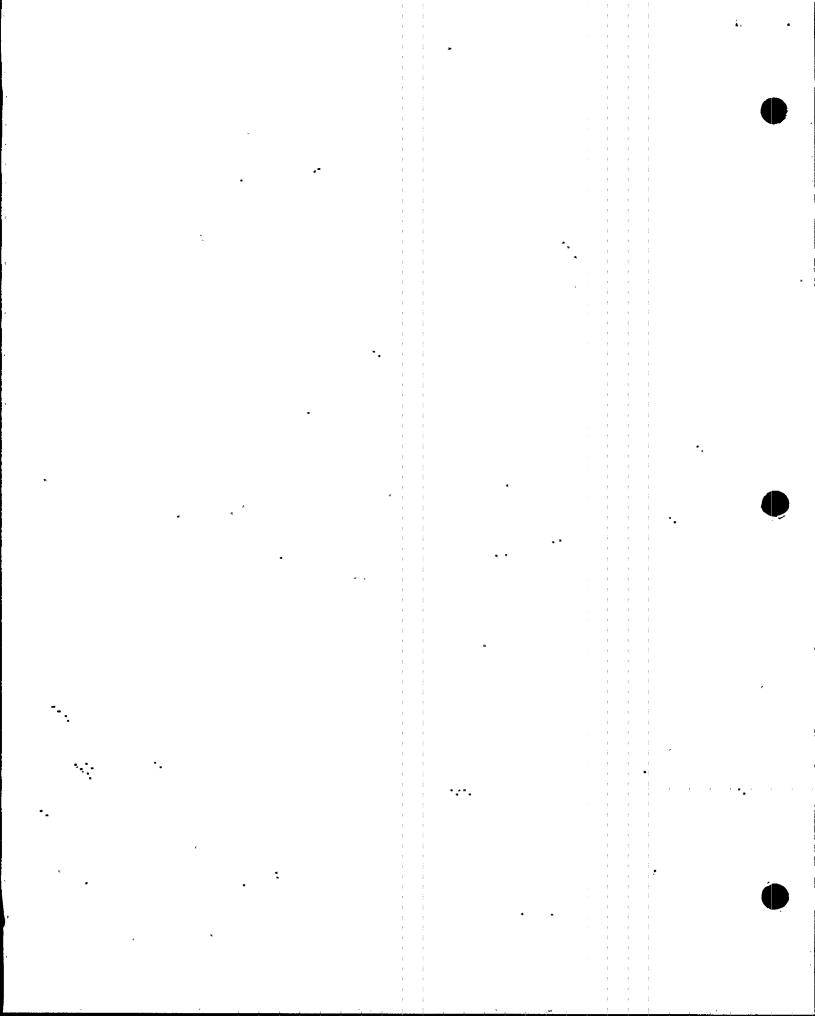
- GL 95-07 SCHEDULE IS REASONABLE
  - O INITIAL SCREENING 90 DAYS
  - O SUMMARY OF ACTIONS AND ANALYSES 180 DAYS
  - O ALLOWS FOR CONSIDERATION OF PLANT OUTAGE AND OPERATION SCHEDULES IN DEVELOPING CORRECTIVE ACTION SCHEDULES



## RECENT PRESSURE LOCKING AND THERMAL BINDING EXPERIENCE AND ANALYSES

Thomas G. Scarbrough

Mechanical Engineering Branch
Division of Engineering
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission

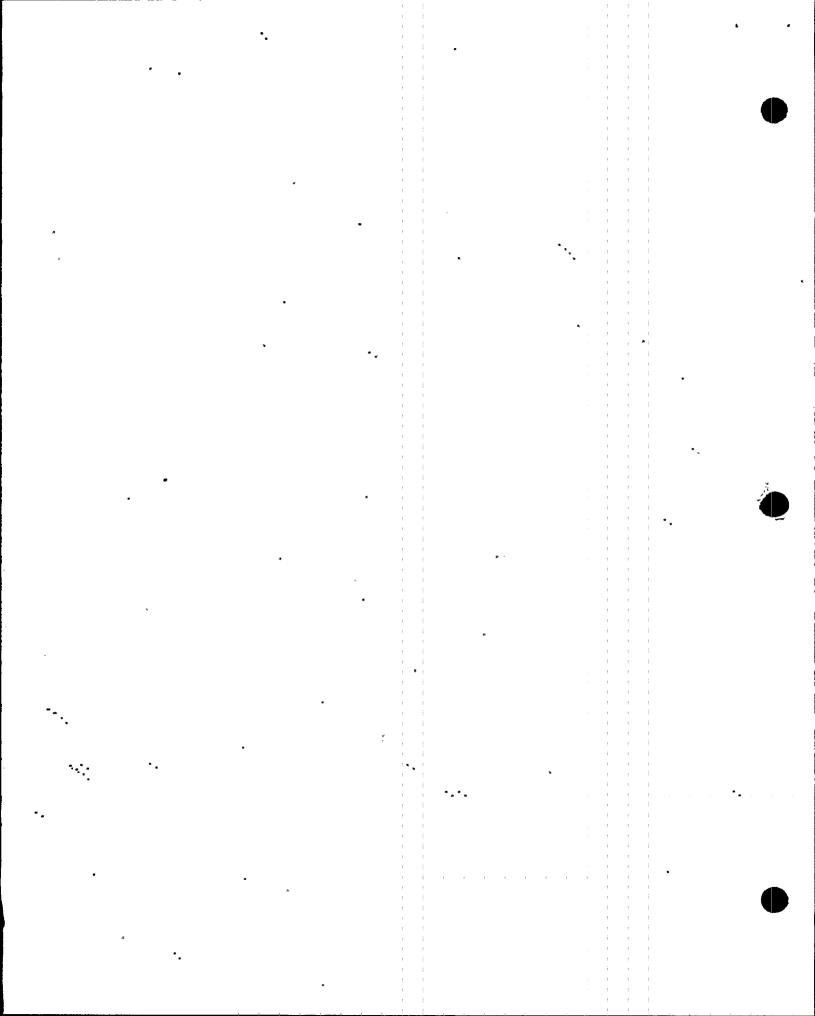


### PRESSURE LOCKING AND THERMAL BINDING PHENOMENA

PRESSURE LOCKING OF FLEXIBLE WEDGE OR PARALLEL DISK GATE VALVES OCCURS WHEN FLUID IS PRESSURIZED WITHIN VALVE BONNET, AND ACTUATOR IS INCAPABLE OF OVERCOMING ADDITIONAL THRUST REQUIREMENT FROM DIFFERENTIAL PRESSURE ACROSS BOTH VALVE DISKS.

THERMAL BINDING RESULTS FROM MECHANICAL INTERFERENCE THAT OCCURS DUE TO DIFFERENT EXPANSION AND CONTRACTION CHARACTERISTICS OF VALVE BODY AND DISK MATERIALS. REOPENING OF A CLOSED VALVE MIGHT BE PREVENTED UNTIL VALVE AND DISK ARE RETURNED TO THEIR ORIGINAL TEMPERATURES.

PRESSURE LOCKING AND THERMAL BINDING REPRESENT POTENTIAL COMMON-CAUSE FAILURE MODES THAT CAN RENDER REDUNDANT TRAINS OF SAFETY-RELATED SYSTEMS OR MULTIPLE SAFETY SYSTEMS INCAPABLE OF PERFORMING THEIR SAFETY FUNCTIONS.



### **RELATED NRC DOCUMENTS**

IE CIRCULAR 77-05, "FLUID ENTRAPMENT IN VALVE BONNETS," MARCH 29, 1977

IN 81-31, "FAILURE OF SAFETY INJECTION VALVES TO OPERATE AGAINST DIFFERENTIAL PRESSURE," OCTOBER 8, 1981

IN 92-26, "PRESSURE LOCKING OF MOTOR-OPERATED FLEXIBLE WEDGE GATE VALVES," APRIL 2, 1992

NUREG-1275, VOL. 9, "OPERATING EXPERIENCE FEEDBACK REPORT - PRESSURE LOCKING AND THERMAL BINDING OF GATE VALVES,"
MARCH 1993

GENERIC LETTER 89-10, "SAFETY-RELATED MOTOR-OPERATED VALVE TESTING AND SURVEILLANCE," JUNE 28, 1989

GL 89-10, SUPPLEMENT 6, "INFORMATION ON SCHEDULE AND GROUPING, AND STAFF RESPONSES TO ADDITIONAL PUBLIC QUESTIONS," MARCH 8, 1994

NUREG/CP-0146, "WORKSHOP (FEBRUARY 1994) ON GATE VALVE PRESSURE LOCKING AND THERMAL BINDING," ISSUED JULY 1995

NUREG/CP-0137, VOLUME 2, "PROCEEDINGS OF THIRD NRC/ASME SYMPOSIUM ON VALVE AND PUMP TESTING," JULY 1994

IN 95-14, "SUSCEPTIBILITY OF CONT. SUMP RECIRCULATION GATE VALVES TO PRESSURE LOCKING," FEBRUARY 28, 1995

IN 95-18, "POTENTIAL PRESSURE-LOCKING OF SAFETY-RELATED POWER-OPERATED GATE VALVES," MARCH 15, 1995

IN 95-18, SUPP. 1, "POTENTIAL PRESSURE-LOCKING OF SAFETY-RELATED POWER-OPERATED GATE VALVES," MARCH 31, 1995

IN 95-30, "SUSCEPTIBILITY OF LOW-PRESSURE COOLANT INJECTION AND CORE SPRAY INJECTION VALVES TO PRESSURE LOCKING," AUGUST 3, 1995

### RELATED INDUSTRY DOCUMENTS

GE SIL 368, "RECIRCULATION DISCHARGE ISOLATION VALVE LOCKING," DECEMBER 1981

GE SIL 368, SUPPLEMENT 1, "GATE VALVE LOCKUP," AUGUST 14, 1989

INPO SOER 84-7, "PRESSURE LOCKING AND THERMAL BINDING OF GATE VALVES," DECEMBER 14, 1984

INPO SER 8-88, "PRESSURE LOCKING OF RESIDUAL HEAT REMOVAL GATE VALVES," MARCH 25, 1988

ASME SECTION III, DIVISION 1 - SUBSECTION NB-3511 - 1980

ANSI B31.1 - 1973

ANSI B16.5 - 1973

POWER ENGINEERING, "BONNET OVERPRESSURIZATION PROTECTION FOR DOUBLE-SEATED VALVES," JANUARY 1985

### PRESSURE LOCKING AND THERMAL BINDING EXPERIENCE AND ANALYSES

### LPCI SYSTEM INJECTION VALVE AT FITZPATRICK

IN JULY 1991, A LPCI SYSTEM INJECTION VALVE AT FITZPATRICK FAILED WHEN ATTEMPTED TO OPEN ABOUT 9 HOURS AFTER A HYDROSTATIC TEST OF THE PIPING.

CAUSE ATTRIBUTED TO HIGH PRESSURE IN THE VALVE BONNET RESULTING ... THRUST GREATER THAN MOTOR CAPABILITY.

LICENSEE INSTALLED VENT LINES ON 4 LPCI AND LPCS VALVES.

INFO NOTICE 92-26 DISCUSSES PRESSURE LOCKING EVENT.

RHR SUPPRESSION POOL SUCTION VALVE AT GRAND GULF

IN JANUARY 1992, RHR SUPPRESSION POOL SUCTION VALVE AT GRAND GULF FAILED TO OPEN DURING PLANT STARTUP.

CAUSE ATTRIBUTED TO HIGH REACTOR COOLANT TEMPERATURE EXPANDING WATER IN VALVE BONNET RESULTING IN THRUST GREATER THAN MOTOR CAPABILITY.

LICENSEE INSTALLED VENT LINES IN BOTH SUCTION VALVES.

### RCIC STEAM LINE ISOLATION VALVE AT LASALLE

IN FEBRUARY 1993, A RCIC STEAM LINE ISOLATION VALVE AT LASALLE FAILED TO OPEN DURING TESTING.

FAILURE COULD HAVE BEEN CAUSED BY COLLECTION OF CONDENSATE IN THE VALVE BONNET WITH SUBSEQUENT EXPANSION RESULTING IN HIGH THRUST REQUIREMENTS.

LICENSEE DRILLED HOLE IN DISK TO PREVENT LOCKING.

### PRESSURE LOCKING AND THERMAL BINDING EXPERIENCE AND ANALYSES (continued)

### PWR CONTAINMENT SUMP RECIRCULATION VALVES

IN JANUARY 1995, MILLSTONE UNIT 2 NOTIFIED NRC THAT BOTH CONTAINMENT SUMP RECIRCULATION VALVES MIGHT FAIL TO OPEN BECAUSE OF PRESSURE LOCKING DURING LOCA.

LICENSEE INITIALLY DRILLED SMALL HOLE IN CONTAINMENT-SIDE DISKS OF BOTH VALVES. BECAUSE CHECK VALVE LEAKAGE CAUSED INCREASING SUMP LEVEL, LICENSEE REFILLED HOLES AND JUSTIFIED MOV CAPABILITY FOR SHORT TERM UNTIL LONG-TERM SOLUTION CAN BE DEVELOPED.

IN 95-14 ISSUED ON POTENTIAL PRESSURE LOCKING OF PWR CONTAINMENT SUMP RECIRCULATION VALVES.

TI 2515/129 ADDRESSED SUMP VALVES ON A PRIORITY BASIS.

FOR SHORT TERM, APPLICABLE PWR LICENSES VERIFIED CONTAINMENT SUMP RECIRCULATION VALVES NOT SUSCEPTIBLE TO PRESSURE LOCKING THROUGH MODIFICATION, WATER BARRIER IN SUMP, OR ANALYSIS BASED ON AIR IN VALVE BONNET.

### SAFETY INJECTION VALVES AT HADDAM NECK

IN MARCH 1995, HADDAM NECK FOUND SEVERAL MOVS IN SAFETY INJECTION SYSTEMS WITH QUESTIONABLE OPERABILITY BECAUSE OF POTENTIAL FOR PRESSURE LOCKING.

IN 95-18 ISSUED.

LICENSEE INSTALLED BONNET VENTS TO RCS ON 4 MOVS AND DRILLED HOLE IN DISK OF 2 MOVS.

### RECENT PRESSURE LOCKING AND THERMAL BINDING EXPERIENCE AND ANALYSES (continued)

### **CORE SPRAY VALVE AT VERMONT YANKEE**

IN MARCH 1995, NRC STAFF RAISED QUESTIONS REGARDING THE CAPABILITY OF 2 CORE SPRAY INJECTION MOVS TO OPEN BECAUSE OF SUSCEPTIBILITY TO PRESSURE LOCKING.

LEAKING CHECK VALVE INCREASED PRESSURE LOCKING POTENTIAL.

SIMULATED PRESSURE-LOCKING CONDITION REVEALED LESS PRESSURE-LOCKING THRUST THAN PREDICTED, BUT GREATER TOTAL THRUST REQUIREMENT AS A RESULT OF HIGHER-THAN-PREDICTED UNWEDGING LOAD.

LICENSEE DRILLED HOLE IN DISK OF BOTH MOVA.

### HPSI MOVS AT MAINE YANKEE

IN MAY 1995 (LER 95-008), LICENSEE DETERMINED THAT TWO MOVS IN THE HPSI SYSTEM AT MAINE YANKEE WERE SUSCEPTIBLE TO PRESSURE LOCKING AS DESCRIBED IN INFO NOTICE 95-18.

FAILURE OF THESE MOVS TO OPEN UPON INITIATION OF HECIRCULATION COOLING COULD RESULT IN A LOSS OF HPSI CAPABILITY AND POSSIBLE PUMP DAMAGE DUE TO INSUFFICIENT NPSH.

FAILURE MIGHT BE CAUSED BY THERMALLY-INDUCED PRESSURE LOCKING OF VALVE BONNET DUE TO HIGH CONTAINMENT SPRAY BUILDING TEMPERATURE.

LICENSEE DRILLED HOLE IN DISK OF BOTH MOVs.

### PRESSURE LOCKING AND THERMAL BINDING EXPERIENCE AND ANALYSES (continued)

### PORV BLOCK VALVES AT MILLSTONE

IN JUNE 1995, MILLSTONE UNIT 2 DETERMINED THAT THE PORV BLOCK VALVES ARE POTENTIALLY SUSCEPTIBLE TO THERMAL BINDING UNDER CERTAIN CIRCUMSTANCES.

IF THE PORV BLOCK VALVES WERE CLOSED AND A SUBSEQUENT COOLDOWN WERE PERFORMED, THE BLOCK VALVES MAY EXPERIENCE THERMAL BINDING.

LICENSEE INSTALLED LARGER ACTUATORS AND CYCLES VALVES PERIODICALLY DURING COOLDOWN.

### LPCI AND CORE SPRAY INJECTION VALVES AT HATCH

ON JULY 21, HATCH DETERMINED THAT A LPCI VALVE IN UNIT 2 MIGHT NOT OPERATE UNDER PRESSURE-LOCKING CONDITIONS.

LICENSEE DECLARED LPCI VALVE INOPERABLE AND TOOK CORRECTIVE ACTION. ANOTHER LPCI VALVE BEING MODIFIED. OTHER LPCI AND CORE SPRAY INJECTION VALVES ALSO EVALUATED.



LEAKING CHECK VALVE CAUSED SURVEILLANCE TEST OF LPCI VALVE TO BE MORE SEVERE THAN DESIGN-BASIS CONDITIONS.

LICENSEES SHOULD ENSURE THAT MOVS CAN ACCOMMODATE SURVEILLANCE TEST CONDITIONS OR MODIFY TEST INTERVALS AS ALLOWED BY OM-10 OR GL 89-04.

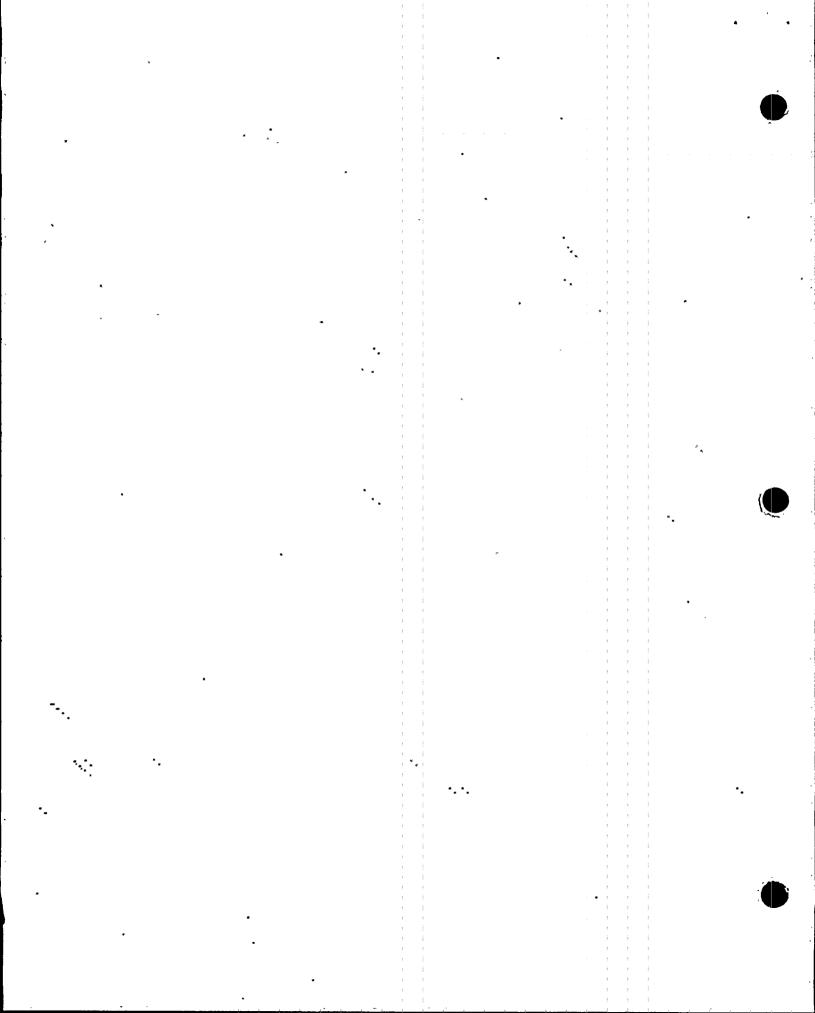
### RECENT PRESSURE LOCKING AND THERMAL BINDING EXPERIENCE AND ANALYSES (continued)

### RECIRCULATION VALVE AT HOPE CREEK

IN JULY 1995, A RECIRCULATION VALVE AT HOPE CREEK EXPERIENCED THERMAL BINDING PREVENTING OPENING UNTIL TEMPERATURE EQUALIZED BETWEEN VALVE BODY AND DISK.

VALVE DAPAGED WHEN OPENED BY ROTATION OF CONTACT BAR IN TORQUE SWITCH THAT PREVENTED VALVE CLOSING CIRCUIT FROM ENERGIZING.

RECIRCULATION VALVE POSITIONED PARTIALLY OPEN TO PREVENT THERMAL BINDING RESULTED IN BYPASS OF COOLING WATER FROM REACTOR CORE AND UNEXPECTED MODE CHANGE.



### EXAMPLES OF GENERIC LETTER 95-07 SUSCEPTIBILITY AND EVALUATION METHODS

### Howard J. Rathbun

Mechanical Engineering Branch
Division of Engineering
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission

### GL 95-07 REQUESTED ACTIONS

### WITHIN 90 DAYS

- 1. PERFORM SCREENING EVALUATION OF OPERATIONAL CONFIGURATIONS OF ALL SAFETY-RELATED POWER-OPERATED GATE VALVES TO IDENTIFY VALVES POTENTIALLY SUSCEPTIBLE TO PRESSURE LOCKING OR THERMAL BINDING; AND
- 2. DOCUMENT BASIS FOR OPERABILITY OF POTENTIALLY
  SUSCEPTIBLE VALVES OR, WHERE OPERABILITY CANNOT BE
  SUPPORTED, TAKE ACTION IN ACCORDANCE WITH INDIVIDUAL
  PLANT TECH SPECS.

SCREENING EVALUATION PROVIDES CONFIDENCE THAT NO SHORT-

WHERE PREVIOUS EVALUATIONS PERFORMED, LICENSEE ENSURES
THAT NO CRITICAL DEFICIENCIES EXIST IN PAST EVALUATIONS IN
LIGHT OF NEW INFORMATION.

### WITHIN 180 DAYS

•

1. EVALUATE OPERATIONAL CONFIGURATIONS OF SAFETYRELATED POWER-OPERATED GATE VALVES TO IDENTIFY
VALVES SUSCEPTIBLE TO PRESSURE LOCKING AND THERMAL
BINDING;

2. PERFORM FURTHER ANALYSES AS APPROPRIATE, AND TAKE NEEDED CORRECTIVE ACTIONS (OR JUSTIFY LONGER SCHEDULES), TO ENSURE THAT SUSCEPTIBLE VALVES ARE CAPABLE OF PERFORMING SAFETY FUNCTION(S) UNDER ALL MODES OF PLANT OPERATION, INCLUDING TEST CONFIGURATION.

IF ALREADY PERFORMED ACTION IN RESPONSE TO SUPPLEMENT 6
TO GL 89-10, LICENSEE NEED NOT PERFORM ANY ADDITIONAL
ACTION UNDER 1 AND 2 FOR MOVs.

### 90-DAY REQUESTED ACTION

AN EFFECTIVE SCREENING EVALUATION SHOULD CONSIDER (BASED ON CURRENT KNOWLEDGE) THE FOLLOWING ATTRIBUTES:

INCLUDE ALL SAFETY-RELATED POWER-OPERATED GATE VALVES

INITIAL ASSESSMENT OF SYSTEM OR PLANT CONFIGURATIONS THAT MAY RESULT IN PRESSURE LOCKING OR THERMAL BINDING

INITIAL ASSESSMENT OF VALVE'S CAPABILITY TO OVERCOME A PRESSURE LOCKING OR THERMAL BINDING SITUATION SHOULD THE VALVE BE SUSCEPTIBLE

DOCUMENT A BASIS FOR OPERABILITY OF THE VALVE

### GL 95-07 REQUESTED INFORMATION

### PROVIDE SUMMARY DESCRIPTION OF:

- 1. SUSCEPTIBILITY EVALUATION OF OPERATIONAL CONFIGURATIONS PERFORMED IN RESPONSE TO (OR CONSISTENT WITH) 180-DAY REQUESTED ACTION 1, AND FURTHER ANALYSES PERFORMED IN RESPONSE TO (OR CONSISTENT WITH) LONG-TERM REQUESTED ACTION 2, INCLUDING BASES OR CRITERIA FOR DETERMINING THAT VALVES ARE OR ARE NOT SUSCEPTIBLE TO PRESSURE LOCKING OR THERMAL BINDING;
- 2. RESULTS OF SUSCEPTIBILITY EVALUATION AND FURTHER ANALYSES, INCLUDING LISTING OF SUSCEPTIBLE VALVES;
- 3. CORRECTIVE ACTIONS, OR OTHER DISPOSITIONING, OF SUSCEPTIBLE VALVES, INCLUDING: (A) EQUIPMENT OR PROCEDURAL MODIFICATIONS COMPLETED AND PLANNED (WITH COMPLETION SCHEDULE FOR SUCH ACTIONS); AND (B) JUSTIFICATION FOR ANY DETERMINATION THAT PARTICULAR SUSCEPTIBLE VALVES ARE ACCEPTABLE AS IS.

CORRECTIVE ACTION SCHEDULE MAY BE BASED ON RISK SIGNIFICANCE, INCLUDING CONSIDERATION OF COMMON CAUSE FAILURE OF MULTIPLE VALVES.

PLANT OPERATION AND OUTAGE SCHEDULES MAY BE CONSIDERED IN DEVELOPING CORRECTIVE ACTION SCHEDULES.

TIME SCHEDULES FOR COMPLETING CORRECTIVE ACTION DO NOT SUPERSEDE NRC REGULATIONS AND TECHNICAL SPECIFICATIONS.

SCHEDULE FOR COMPLETING CORRECTIVE ACTION INDEPENDENT OF GL 89-10.

### **GL 95-07 REQUIRED RESPONSE**

### ALL ADDRESSEES REQUIRED TO SUBMIT:

1. WITHIN 60 DAYS FROM DATE OF GL 95-07, A WRITTEN RESPONSE INDICATING WHETHER OR NOT ADDRESSEE WILL IMPLEMENT REQUESTED ACTIONS.

IF ADDRESSEE INTENDS TO IMPLEMENT THE REQUESTED ACTIONS, PROVIDE A SCHEDULE FOR COMPLETION IMPLEMENTATION.

IF ADDRESSEE CHOOSES NOT TO TAKE REQUESTED ACTIONS, PROVIDE DESCRIPTION OF ANY PROPOSED ALTERNATIVE COURSE OF ACTION, SCHEDULE FOR COMPLETING ALTERNATIVE COURSE OF ACTION (IF APPLICABLE), AND SAFETY BASIS FOR DETERMINING ACCEPTABILITY OF PLANNED ALTERNATIVE COURSE OF ACTION:

2. WITHIN 180 DAYS FROM DATE OF GL 95-07, A WRITTEN RESPONSE TO THE INFORMATION REQUEST SPECIFIED ABOVE.

## PRESSURE LOCKING AND THERMAL BINDING SCOPE

GL 95-07

ALL SAFETY-RELATED POWER-OPERATED GATE VALVES WITH A SAFETY FUNCTION IN THE OPEN POSITION.

INADVERTENT MISPOSITIONING EXCLUDED.

ELIMINATE VALVES BASED ON DISK CONFIGURATION (SOLID WEDGE NOT SUSCEPTIBLE TO PRESSURE LOCKING, PARALLEL DISK NOT SUSCEPTIBLE TO THERMAL BINDING).

GL 90-06

PORV BLOCK VALVES

EXAMPLES OF OTHER NRC REGULATIONS AND LICENSEE COMMITMENTS

APPENDIX R WITH REPOSITIONING BY SHORT CIRCUITING

ANTICIPATED TRANSIENT WITHOUT SCRAM

STATION BLACKOUT

#### EXAMPLE MATRIX FOR EVALUATING GL 95-07 SAFETY-RELATED POWER-OPERATED GATE VALVE SUSCEPTIBILITY

Valve Normal Position	Safety Position	Test or Surveillance Position	Evaluate Susceptibility Within Scope of GL 95-07
Normally Closed	Open	Closed	Yes
Normally Closed	Open	Open	Yes
Normally Closed	Closed	Closed	No *
Normally Closed	Closed	Open	No *
Normally Open	Open	Closed	Yes
Normally Open	Open	Open	No
Normally Open	Closed	·Closed ·	No *
Normally Open	Closed	Open	No *

<sup>\*</sup> LICENSEES SHOULD BE AWARE OF THE POTENTIAL FOR THERMALLY-INDUCED PRESSURE TRANSIENTS RESULTING IN BONNET OVERPRESSURIZATION

## GATE VALVES CLOSED FOR SURVEILLANCE OR TESTING

NRC REGULATIONS AND LICENSEE SAFETY ANALYSES REQUIRE THAT SAFETY-RELATED SYSTEMS BE CAPABLE OF PERFORMING THEIR SAFETY FUNCTIONS.

IF CLOSING A SAFETY-RELATED POWER-OPERATED GATE VALVE
FOR TEST OR SURVEILLANCE DEFEATS THE CAPABILITY OF THE
SAFETY SYSTEM OR TRAIN, LICENSEE NEEDS TO PERFORM ONE OF
THE FOLLOWING WITHIN THE SCOPE OF GL 95-07:

- 1. VERIFY THAT VALVE IS NOT SUSCEPTIBLE TO PRESSURE LOCKING OR THERMAL BINDING WHILE CLOSED,
- 2. FOLLOW PLANT TECHNICAL SPECIFICATIONS FOR TRAIN/SYSTEM WHILE VALVE CLOSED,
- 3. DEMONSTRATE THAT THE ACTUATOR HAS SUFFICIENT CAPACITY TO OVERCOME THESE PHENOMENA, OR
- 4. MAKE APPROPRIATE HARDWARE AND/OR PROCEDURAL MODIFICATIONS TO PREVENT PRESSURE LOCKING AND THERMAL BINDING.

THIS APPROACH IS ALSO APPROPRIATE FOR NON-SAFETY-RELATED VALVES IN SAFETY SYSTEMS.

### OPERATIONAL CONFIGURATIONS IN SUSCEPTIBILITY EVALUATIONS

ABSENCE OF HEAT SOURCE ELIMINATES VALVES FROM THERMALLY-INDUCED PRESSURE LOCKING.

EXTERNAL CONDITIONS DURING NORMAL, SURVEILLANCE OR OPERATING CONDITIONS SUCH AS:

PRESENCE OF INSULATION (BENEFIT NEEDS TO BE JUSTIFIED)

POTENTIAL HEAT SOURCES: PUMP MOTORS, STEAM DRIVEN TURBINES, HIGH ENERGY PIPING, HIGH TEMPERATURE FLUID

SURVEILLANCE TESTING OR OTHER SPECIAL TEST CONDITIONS SUCH AS HYDROSTATIC TESTING.

GENERIC STUDIES SUCH AS THERMAL EFFECTS AND DESIGN-BASIS DEPRESSURIZATION.

EFFORTS TO IMPROVE LEAK-TIGHTNESS OF PRIMARY SYSTEM .
VALVE PRESSURE BOUNDARIES.

POTENTIAL FOR WATER FILLING VALVE BONNET (FULL BONNET NOT REQUIRED FOR FLUID-INDUCED PRESSURE LOCKING)

INTERNAL SYSTEM OPERATING CONDITIONS.

PRESSURE LOCKING AND THERMAL BINDING WHEN VALVE REQUIRED TO OPEN.

VALVE CLOSED AT HIGH TEMPERATURE AND REQUIRED TO OPEN AT LOWER TEMPERATURE

ADEQUATELY JUSTIFIED ASSERTIONS OF DIFFERENTIAL TEMPERATURE FOR THERMAL BINDING

## INAPPROPRIATE REASONS FOR ELIMINATING VALVES FROM SUSCEPTIBILITY

**LEAKAGE RATE** 

**ENGINEERING JUDGEMENT WITHOUT JUSTIFICATION** 

LACK OF EVENT OCCURRENCE

## EXAMPLES OF VALVES SUSCEPTIBLE TO PRESSURE LOCKING

LOW-PRESSURE COOLANT INJECTION (LPCI) AND LOW-PRESSURE CORE SPRAY (LPCS) SYSTEM INJECTION VALVES

RESIDUAL HEAT REMOVAL (RHR) SYSTEM HOT-LEG CROSSOVER ISOLATION VALVES

RHR CONTAINMENT SUMP AND SUPPRESSION POOL SUCTION VALVES

HIGH-PRESSURE COOLANT INJECTION (HPCI) STEAM ADMISSION VALVES

RHR HEAT EXCHANGER OUTLET VALVES

**EMERGENCY FEEDWATER ISOLATION VALVES** 

RCIC STEAMLINE ISOLATION VALVE

## EXAMPLES OF VALVES SUSCEPTIBLE TO THERMAL BINDING

REACTOR DEPRESSURIZATION SYSTEM ISOLATION VALVES

RHR INBOARD SUCTION ISOLATION VALVES

POWER-OPERAPED BELIEF VALVE (PORV) BLOCK VALVES

REACTOR COOLANT SYSTEM LETDOWN ISOLATION VALVES

RHR SUPPRESSION POOL SUCTION VALVES

CONTAINMENT ISOLATION VALVES (SAMPLE LINE, LETDOWN HEAT EXCHANGER INLET HEADER)

CONDENSATE DISCHARGE VALVES

REACTOR FEEDWATER PUMP DISCHARGE VALVES

#### SHORT-TERM ACTION FOR GATE VALVES FOUND SUSCEPTIBLE TO PRESSURE LOCKING OR THERMAL BINDING

EVALUATE IMMEDIATE OPERABILITY USING BEST AVAILABLE METHODS FOR PREDICTING REQUIRED AND AVAILABLE THRUST:

BEST AVAILABLE METHODS FOR PREDICTING THRUST REQUIRED TO OVERCOME PRESSURE LOCKING INCLUDE ENTERGY, Comed and hope creek methods at this time.

METHOD FOR PREDICTING THRUST REQUIRED TO OVERCOME THERMALLY INDUCED PRESSURE LOCKING SHOULD CONSIDER HEAT TRANSFER, PRESSURE VERSUS TEMPERATURE INCREASE, AND AIR VOLUME RELIABILITY.

BEST AVAILABLE METHOD FOR PREDICTING AVAILABLE THRUST AND WEAK LINK CAPABILITY CONSISTENT WITH GL 89-10 PROGRAM.

IF CANNOT DEMONSTRATE CAPABILITY TO OVERCOME PRESSURE LOCKING AND THERMAL BINDING OF SUSCEPTIBLE VALVE AND CANNOT ESTABLISH PROCEDURE CONTROLS TO PREVENT THE PHENOMENA, TAKE ACTION IN ACCORDANCE WITH TECH SPECS.

## LONG-TERM OPTIONS FOR RESOLVING PRESSURE LOCKING AND THERMAL BINDING OF SUSCEPTIBLE VALVES

**ANALYSIS ONLY** 

CONSERVATIVE ACCOUNTING FOR UNCERTAINTIES IN ANALYSIS

**TESTING ONLY** 

ASSURANCE THAT TEST CONDITIONS BOUND ALL
OPERATIONAL CONDITIONS

COMBINATION OF TESTING AND ANALYSIS

CORRELATION OF TEST RESULTS AND ANALYSIS

CONSERVATIVE APPLICATION OF TEST RESULTS

**EQUIPMENT MODIFICATIONS** 

SEE FOLLOWING SLIDE.

PROCEDURE MODIFICATIONS

MAY BE MOST APPROPRIATE RESOLUTION TO RESOLVE THERMAL BINDING

•. •.

#### **EXAMPLES OF VALVE MODIFICATIONS**

#### PRESSURE LOCKING

DRILL HOLE IN HIGH PRESSURE SIDE OF THE DISK AND ACCOUNT FOR VALVE BEING UNIDIRECTIONAL.

INSTALL PRESSURE RELIEF OR VENT PATH MODIFY OPERATING PROCEDURES IF OPERATOR ACTION IS
REQUIRED (SUCH AS REMOTELY OPERATED VALVE)

INSTALL EXTERNAL BYPASS LINE WITH MANUAL VALVE - MODIFY OPERATING PROCEDURES

VALVE DISK TRAVEL PRIOR TO HARD SEAT CONTACT AND ACCOUNT FOR LEAKAGE PAST VALVE

#### THERMAL BINDING

REPLACE FLEX-WEDGE OR SOLID WEDGE WITH A PARALLEL DISK (1) INVESTIGATE NEW POSSIBILITY FOR PRESSURE LOCKING
AND (2) APPROPRIATE TESTS BEFORE PLACING THE VALVE IN
SERVICE

#### PERIODICALLY STROKE VALVE -

- (1) ADEQUATE JUSTIFICATION FOR THE TEMPERATURE INTERVAL AND (2) CONSIDERATION FOR DIVERSION OF FLOW
- STOP VALVE DISK TRAVEL PRIOR TO HARD SEAT CONTACT (1) ADEQUATE JUSTIFICATION FOR HIGH TEMPERATURE
  GRADIENTS AND (2) VALVE DOES NOT PROVIDE COMPLETE
  ISOLATION

INSTALL A COMPENSATING SPRING PACK WITH TEST VERIFICATION

## IMPORTANCE OF TRAINING TO RESOLVE PRESSURE LOCKING AND THERMAL BINDING

**EXAMPLES:** 

DRILLING A HOLE IN THE HIGH PRESSURE SIDE

TRAIN OPERATORS TO REPLACE DISK IN CORRECT ORIENTATION

PERIODICALLY STROKING THE VALVE

TRAIN OPERATORS REGARDING POTENTIAL PLANT TRANSIENTS

## STAFF PLANS FOR REVIEWING LICENSEE RESPONSES TO GL 95-07

**REVIEW 60-DAY RESPONSE** 

**REVIEW 180-DAY SUBMITTALS** 

**CLOSE STAFF REVIEW BY 1 OR MORE OF:** 

- 1. NRR REVIEW
- 2. NRR AUDIT
- 3. REGION INSPECTION

RESOLVE ANY CONCERNS WITH LICENSEE INVOLVING PRESSURE LOCKING/THERMAL BINDING WITH ANY APPROPRIATE LICENSEE ACTION

#### NRC SPONSORED RESEARCH

THRUST REQUIREMENT VS. BONNET PRESSURE

BONNET PRESSURE VS. TEMPERATURE INCREASE

INCLUDING THE EFFECTS OF AIR ENTRAPMENT

UNCERTAINTY IN ABILITY TO CALCULATE LEAKAGE RATE AND IMPACT ON PRESSURE LOCKING

UNCERTAINTY IN ABILITY TO RELY ON ENTRAPPED AIR

THRUST REQUIREMENT VS. THERMAL BINDING



# Pressure Locking and Thermal Binding (PL/TB):

#### **Experience at Northeast Utilities (NU)**

November 2, 1995

**Bob Harris** 

Nuclear Engineering Services Division
Northeast Utilities
Rope Ferry Road
Waterford, CT 06385-0128

NRC Region I Conference on GL 95-07, Wayne, PA



- → Share NU's Experience with Pressure Locking & Thermal Binding (PL/TB) of Gate Valves based primarily on our actions taken for MOVs as part of GL 89-10 Closure.
- → Discuss preliminary results of GL 95-07 Screening of Power Operated Valves (POVs).

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## PL/TB Overview: Vulnerabilities & Corrective Actions

#### **→** Gate Valve Susceptibility

VALVE DESIGN	PL	TB
Solid-Wedge	No	Yes
Flex-Wedge	Yes	Yes<
Parallel/Double Disc	Yes	No

#### **→** Generic Corrective Actions

	HARDWARE* MODS	ADMIN MODS	ANALYSIS
PL TB	Many None*	Limited Primary	Cautiously N/A

<sup>\*</sup> Replacement of valve with a different design may be feasible

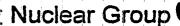
#### NU has Developed a Detailed Evaluation Procedure (called PI-20)

- → Part of GL 89-10 MOV Program
- → Conservative
- → Engineering Judgment . .
- → Empirical Data



### PL & TB are Real, but Rare Phenomenon

- → The physical phenomena are real & easily understood once gate valve design is examined in this context.
- → PL/TB occurrences pre-date commercial nuclear plants; are events for valves in fluid systems exposed to temperature and pressure.
- → There have been numerous NRC communications dating back to 1977; INPO 84-7 provides a comprehensive summary.
- → Significantly, Industry-accepted guidance on screening for PL/TB susceptibility has been missing.
- → NRC NUREG-1275 reported 11 instances of PL and 14 of TB, in hundreds of reactor years.
- NU has experienced ~1/2 dozen recognized TB events in ~80Ryr; and no PL known events.
- → Some PL/TB Events may not have been recognized.





## Actual Occurrence of PL Should be Rare

#### → Probability of Pressure Locking (P<sub>PL</sub>):

$$P_{PL} = P_1 \times P_2 \times P_3 \times P_4 \times P_5 \times P_6 \times P_7$$

#### **Causal/Mitigating Factors:**

- System Condition/Upstream Leakage
- Seal Ring Condition/Packing Seal Leak Tight
- Trapped Air in Bonnet
- Process Fluid/External Heating
- Insufficient Available Thrust
- Temperature/Pressure Regime
- Time Duration & Time History
- The Unknowns, etc.
- Not Surprisingly Actual Occurrence of PL is Difficult to Predict



## PL&TB are Situational & Complex: Two Examples

#### 1 PL is highly Situational:

- → Creare Inc. testing of MP2 Sump Recirculation Valves (see Fig. 1)
- → Small Quantities of Air Mitigates PL
- → Figure 1 shows Situational Nature

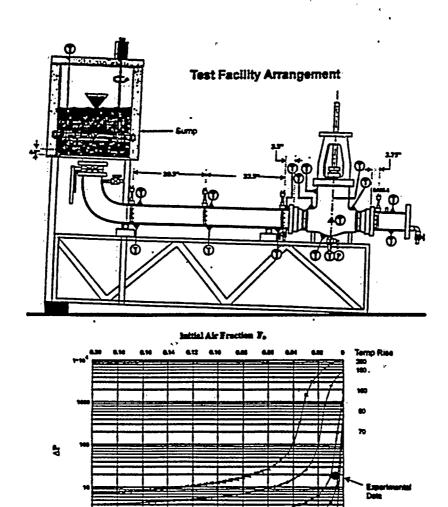
## 2 Unique Mechanisms can be Mistaken for PL or TB:

- → Evaluation of MP1 Shutdown Cooling Valves
- → Experienced multiple, recent "binding events
- → Very PRELIMINARY cause attributed to Pressure Induced Binding (Kalsi Study)

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### Fig. 1: Millstone 2 1/4 Scale Tests at Creare



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## PL/TB & GL 95-07 Primarily Impact GL 89-10 MOVs

## Preliminary

والمراجع والمراجع المناسب والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	CY	MP1	MP2	МРЗ	58
All POVs (estimated)	504	~1000	1200	~2000	~1000
S-R POWs	188	284	534	981	n/a
Less GL 89-10 Valves	(44)	(54)	(52)	(143)	(122)
S-R POV Gate Valves (non 89-10)	6	1	3	6	22
Open Safety Stroke	0	0	0	0	٥





# Modifications Required to Resolve PL/TB for GL 89-10 MOVs

- NU decided in Fall '94 to resolve PL/TB Issue for MOVs as a part of GL 89-10 Closure.
- This resulted in a substantial number of Modifications to NU Plants.
- → Affected Systems Include:

TYPICA	L SYSTEMS IMPACTED .
PWR	Shutdown Cooling
	Containment Sump Recirculation
	Main Steam
	Safety injection
BWR	Feedwater
	Isolation Condenser
_	LP Coolant Injection

→ Summary of Changes

	CY	MP1	MP2	мРЗ	SB
Linguis and Marin		<del> </del>		·	
Hardware Mods:		<del> </del>	-		
Equilizing Line		1 2	1		
Dnil Disc	8	1	<u> </u>	2	
Packing Gland Leakoff	9	1	1	2	
Planned for next RFO		4		6	10
			,		
Admin Mods:		1			1
Procedure Changes	2	. 6	6		2
Prototype Experiment		1	2		1
Operability Space			1	2	
		**	M <sub>10</sub>		



### Conclusions

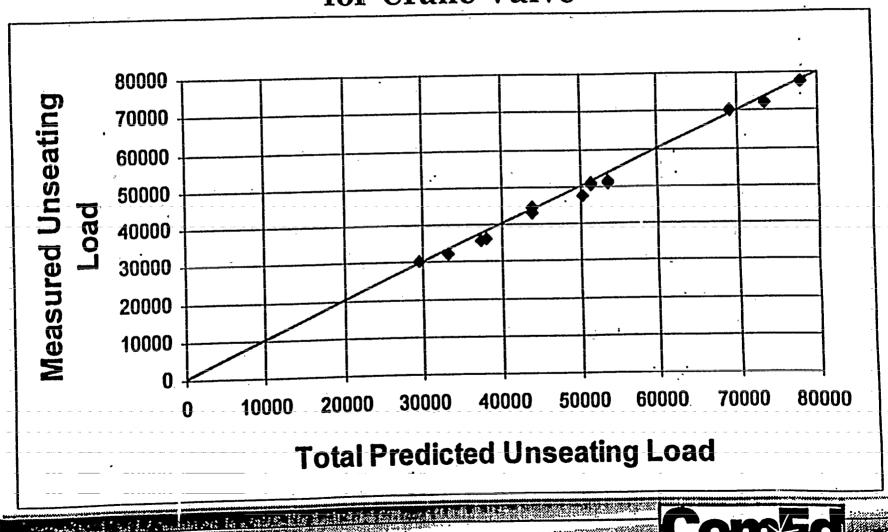
- → PL/TB is real, but rare.
- → Conceptually, PL&TB are reasonably simple phenomenon; however, predicting actual occurrences is complex and in many cases beyond State-of-the-Art.
- → PL/TB is primarily a GL 89-10 issue, and required several modifications for NU Plants.
- → GL 89-10 PL/TB Methodology is fully applicable to GL 95-07.
- → At NU we had a bias toward hardware "fixes" vs. analysis.
- → Further empirical data would be helpful
- → Our conservative, systematic evaluation procedure (PI-20) provides the guidance to resolve GL 95-07. (some copies available)

### Test Sequence

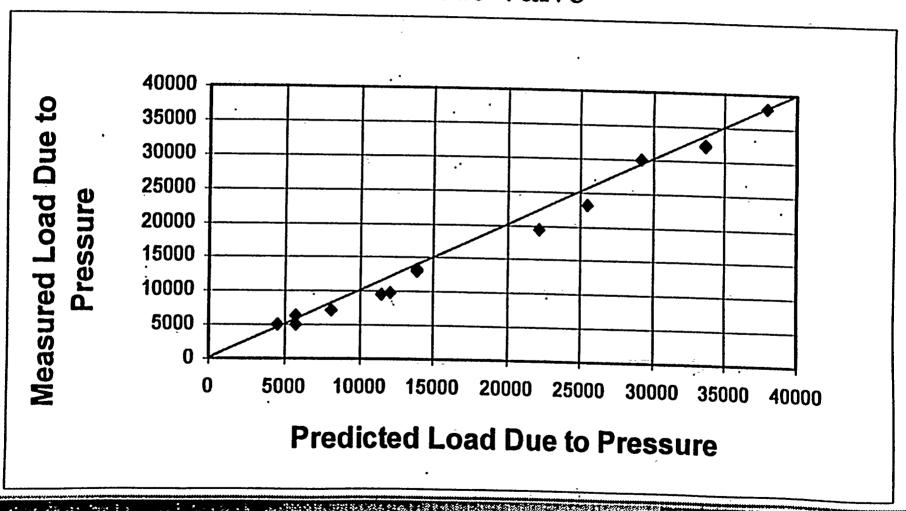
- Static (Baseline) Tests
- LLRT of Test Valve
- Hydro-Pump DP Tests to determine seat to disk friction coefficient
- Bonnet Pressure Decay Tests
- Alternating Static (Baseline) Tests and Pressure Locking Tests at various bonnet/outlet pressure combinations
- Repeat of Test Sequence at different torque switch setting(s)
- Thermally Induced Bonnet Pressurization Tests
- Thermal Binding Test for Valve Cooldown Effect



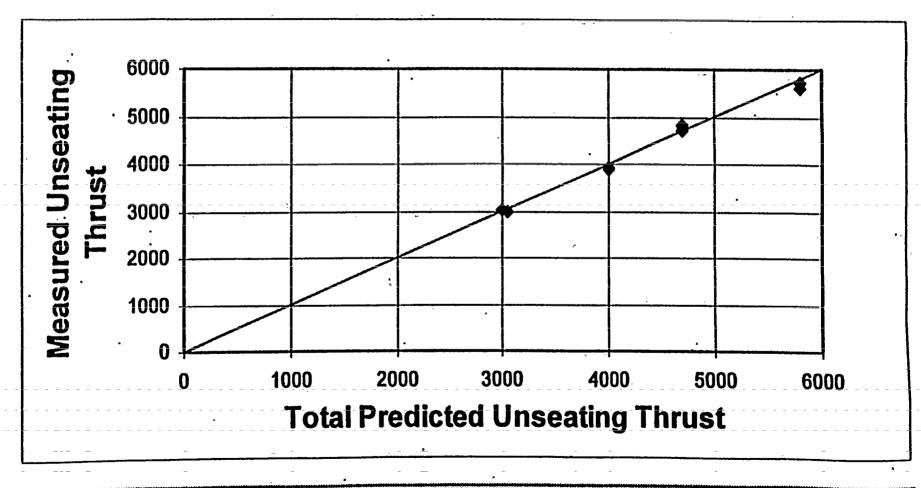
#### Predicted Unseating Thrust Versus Measured Pressure Locking Unseating Force for Crane Valve

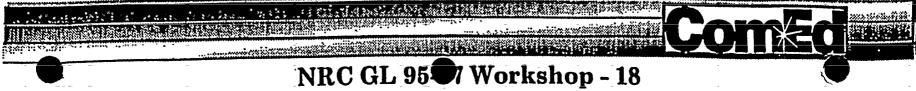


#### Predicted Versus Measured Portion of Pressure Thrust Due to Pressure Forces for Crane Valve

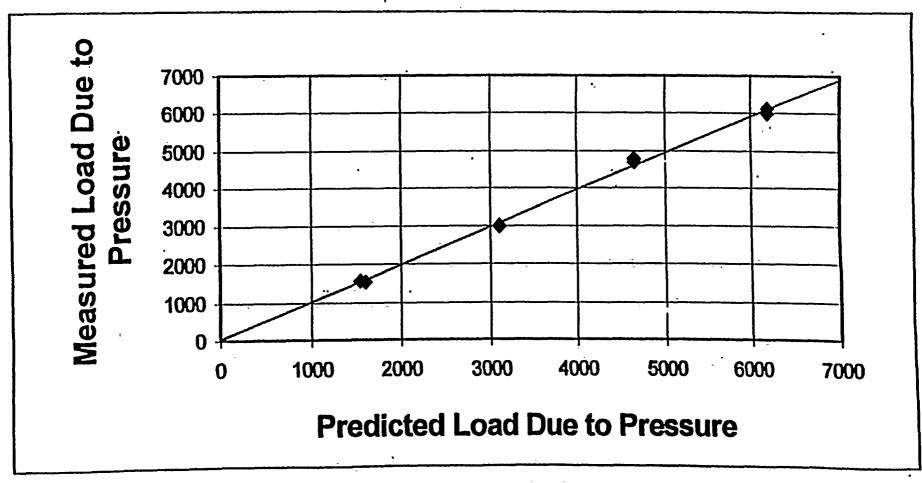


#### Predicted Unseating Thrust Versus Measured Pressure Locking Unseating Thrust for Westinghouse Valve





#### Predicted Versus Measured Portion of Unseating Thrust Due to Pressure Forces for Westinghouse Valve



### Summary of Test Results

• Accuracy of Roark's Equations for Predicting Pressure Locking Force:

Initial data analysis indicates that the ComEd model for predicting pressure locking unseating thrust is accurate and conservative

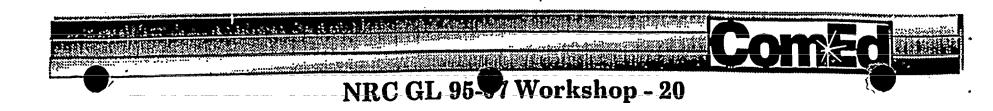
Bonnet Depressurization Rates

Crane Valve: 500 psi to 50 psi / min

(depending on TSS)

West. Valve: 300 psi to 1 psi / min

(depending on TSS)



## Summary of Test Results (continued)

• Thermally Induced Pressure Rise Data:

Crane Valve: Test could not be performed due to

high bonnet depressurization rate

West. Valve: Pressure rise rate of 0.4 psi per

degree. Temperature was raised

from 70 to 260 degrees F.

• Thermal Binding Test Results

Crane Valve: (test is pending)

West. Valve: No increase in unseating thrust for 200

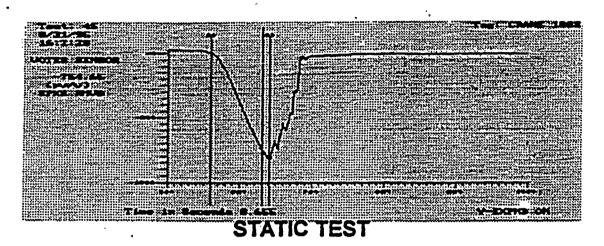
degree temperature drop (low seat mu

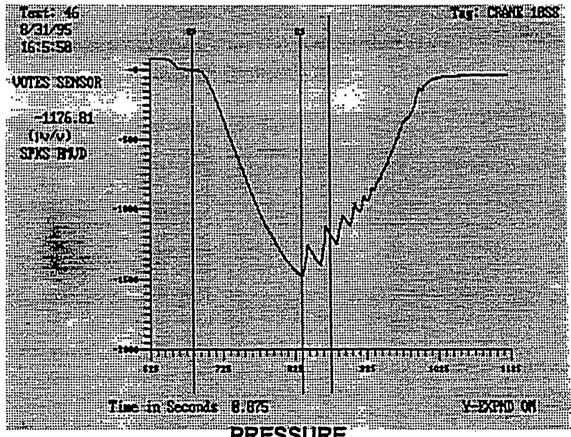
makes this the expected result)

### Future ComEd Testing Plans

- Thermal Binding Testing of Crane 10" Gate Valve
- Testing of Other Flex-Wedge Gate Valve Designs. The following valve designs are being considered:
  - 10" Borg-Warner Gate Valve (~11/27/95)
  - 6" Anchor/Darling Gate Valve (~11/27/95)
  - 10" Westinghouse Gate Valve (~12/?/95)
- Testing of 6" Anchor/Darling Double-Disk Gate Valve
- Comparison of Thermal Binding Test Data to Analytical Models Under Development
- Analysis of Data Collected by Other Utilities Using ComEd Pressure Locking Model

## Comparison of Static Unseating to Pressure Locking Unseating Thrust for 10" Crane 900# Class Valve

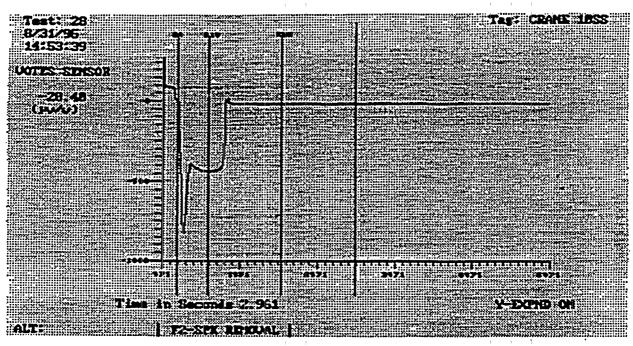




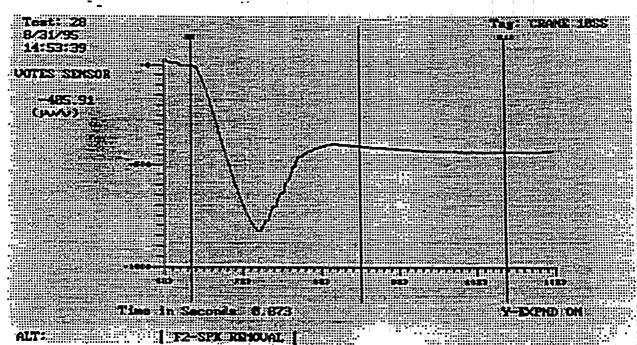
PRESSURE LOCKING TEST

LMV/V 2 50 16F

# Example of Hydro-Pump DP Test for Determining Seat Friction Coefficient (10" Crane 900# Class Valve)

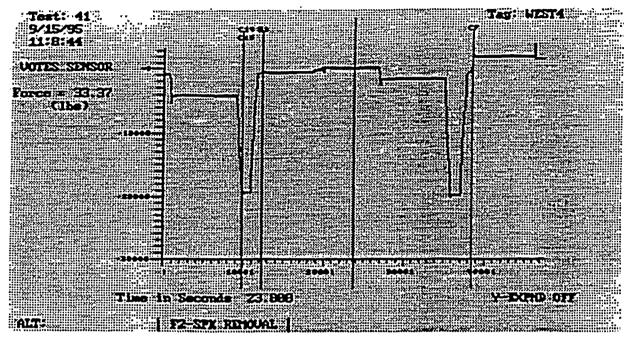


**5 SECOND ZOOM** 

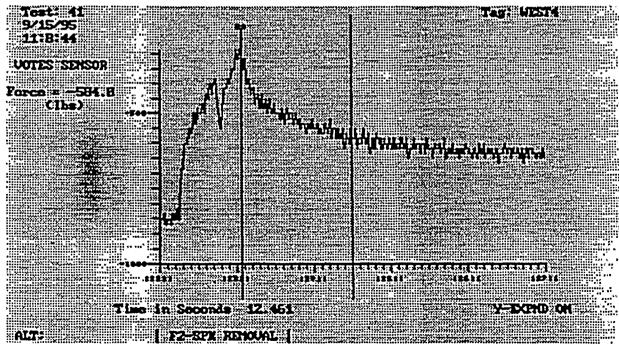


HALF SECOND ZOOM

## Static Test for 4" Westinghouse 1500# Class Gate Valve

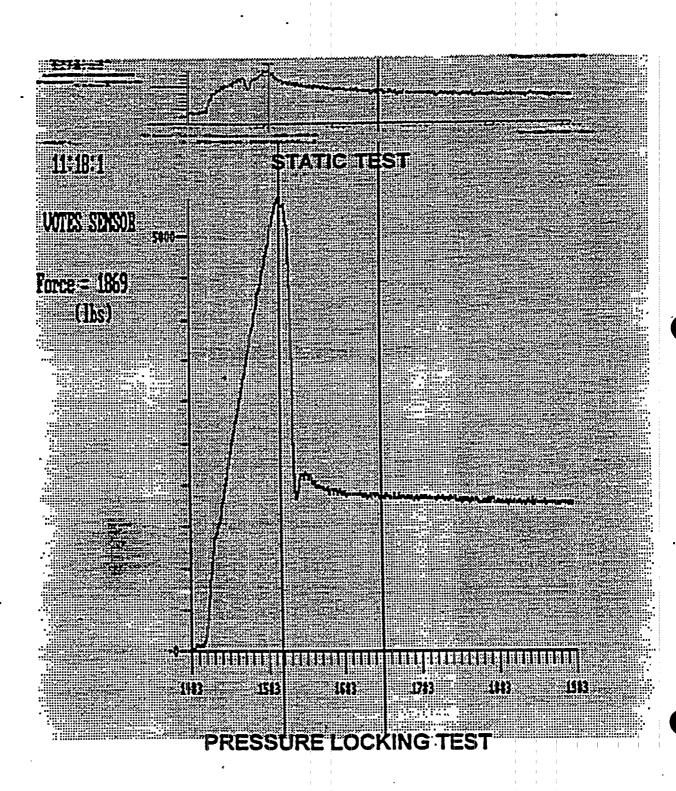


**FULL VIEW OF TRACE** 

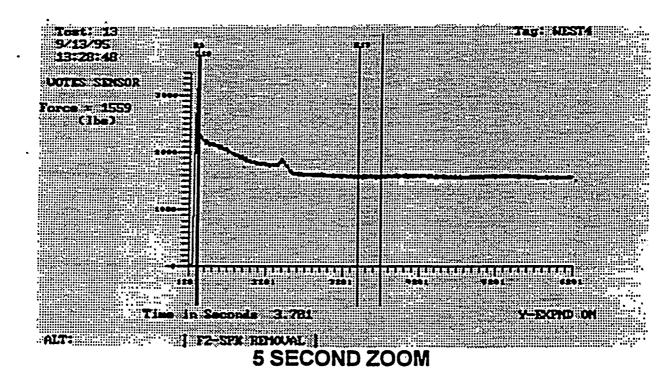


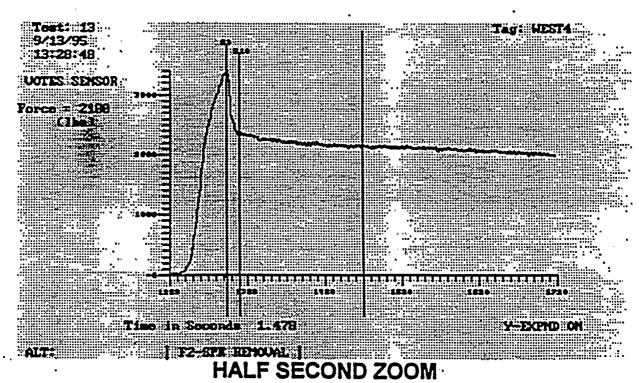
HALF SECOND VIEW OF TRACE

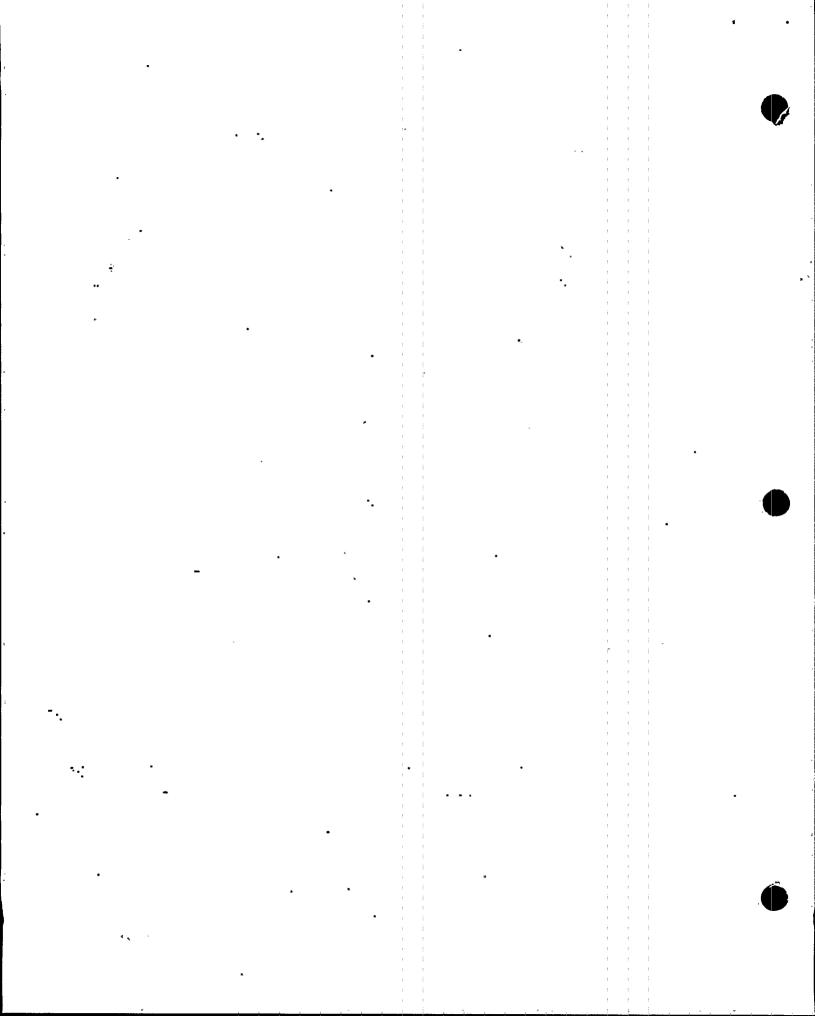
# Comparison of Static Unseating to Pressure Locking Unseating Thrust for 4" Westinghouse 1500# Class Valve



## Example of Hydro-Pump DP Test for Determining Seat Friction Coefficient (4" Westinghouse 1500# Gate Valve)







## PRESSURE LOCKING AND THERMAL BINDING PROGRAM AT WNP-2

PRESENTED AT:
PRESSURE LOCKING AND
THERMAL BINDING WORKSHOP

ARLINGTON, TEXAS NOVEMBER 9, 1995

Presented by: Thomas F. Hoyle

**MOV PROGRAM LEAD** 

SUPPLY SYSTEM

## PRESSURE LOCKING AND THERMAL BINDING PROGRAM AT WNP-2

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#### SUMMARY

The Washington Public Power Supply System took action as part of the GL 89-10 MOV Program to reassess pressure locking and thermal binding (PL/TB) of gate valves which must perform a safety function to open. Several studies have been conducted over the years at, but did not result in many physical changes to WNP-2 valves. GL 89-10 prompted yet another study. However, this study resulted in three valves being physically modified, the procedure for another valve being revised and extensive calculations performed on several other valves.

The NRC, in a recent MOV inspection, questioned the validity of one aspect on the screening criteria used in the PL/TB study. As a result of this concern and the issuance of GL 95-07, the WNP-2 PL/TB study completed in December, 1993 is being reassessed to determine if the screening criteria used and thus ± study results remain valid.

Pressure Locking and Thermal Binding continue to be an industry concern as evidenced by the issuance of GL 95-07. The PL/TB phenomena is quite rare at any individual plant and thus has not been given high priority by most utilities. Non-quantifiable conditions such as seat and packing leakage and air pockets can have major impact on the effects of PL in the conditions exist. Additionally, emphasis is needed on this issue as PL/TB may occur and due to its inherent nature may not be repeatable. Thus, PL/TB may occur but is mis-diagnosed. There is enough industry experience to suggest more detailed review of the phenomena in general and at individual plants.

### **GL 89-10 ACTIONS**

Supplement 6 of GL 89-10 contains the NRC's expectations with regard to Pressure locking/thermal binding. In Supplement 6, the NRC points out that GL 89-10 recommends that licensees review the design bases of their safety-related MOVs. Licensees are expected to have evaluated the potential for pressure locking or thermal binding of gate valves and take action to ensure that these phenomena do not affect the capability of these MOVs to perform their safety-related function. In Supplement 6, the Staff gives an acceptable approach to addressing PL/TB of gate valves in the GL 89-10 program. The evaluation would include:

- Document an evaluation of gate valves in the GL 89-10 program and: a) identify them as acceptable to pressure locking or thermal binding or b) eliminate them from further consideration.
- The evaluation should include those MOVs which could undergo PL/TB during surveillance testing as well as design basis conditions or normal operation.
- Licensees are given recommendations on acceptable and unacceptable resolutions to this issue.
- It is also stated in Supplement 6 that enforcement actions will depend on the safety significance of the issue.

#### CONTRACTOR

The Supply System decided to subcontract the effort to augment staff resources. As with most utilities, the issue of PL/TB was not new. Several other reviews had been conducted to determine if any corrective action was warranted. Minimal in-field work to mitigate PL/TB had been conducted in the past. As a result of the December, 1993 study, the most susceptable PL valves have been in-field worked to eliminate any PL potential. Other less susceptable valves are being re-evaluated for future modification, if required.

#### SCREENING CRITERIA

A screening criteria was established to determine susceptibility to PL/TB. The screening for Pressure-Hydraulic Locking consisted of all flexible wedge of parallel disc valves. PL susceptibility was based on the valve bonnet being pressurized with a subsequent depressurization of the upstream and/or downstream piping. This process potentially results in pressure locked between the discs which can cause an increased thrust to operate the valve OPEN. The screening process was in accordance with NRC Special Study, PL/TB of Gate Valves, December 1992, AEOD/S92-07. System operation was also reviewed to determine if open operation was required after PL and if the upstream valve seat would be repressurized before operation which eliminates PL.

The PL/TB report considers Hydraulic Locking to be a subset of PL which occurs when a solid fluid is trapped in the valve bonnet. Hydraulic locking is detrimental when the fluid temperature in the bonnet is increased resulting in a rapid pressure rise. Valve orientation influences the likelihood of vapor or gas pockets which prevent hydraulic lock. The likelihood of a vertically oriented valve bonnet being totally vented of all noncondensables is remote. This is being substantiated by Commonwealth Edison bench tests that induce and measure PL/HL forces. All valves were screened for orientation and temperature.

Thermal Binding (TB) was restricted to solid wedge valves that close at high temperature. The report evaluation found that there were no valves required to open that may have TB potential. As part of the re-evaluation of PL/TB at WNP-2, flex wedge gate valves will also be evaluated for thermal binding. A temperature criteria will be established to determine TB potential.

### PER & OPERABILITY ASSESSMENT

The process used at WNP-2 to document conditions adverse to quality is called the Problem Evaluation Request or PER. The Pressure Locking/Thermal Binding identified eight gate valves susceptible to pressure locking. PER 294-0074 was initiated to document the issue and follow corrective action. The PL/TB report/PER identified the following MOVs as potentially susceptible to pressure locking:

LPCS-V-5 RCIC-V-13	Low Pressure Core Spray injection valve Reactor Core Isolation Cooling injection valve
RHR-V-8,9	Residual Heat Removal shutdown cooling suction line containment isolation valves
RHR-V-42A,42B,42C HPCS-V-4	Low Pressure Coolant Injection injection valves High Pressure Core Spray injection Valve

As can be seen from inspection of the above valve functions, all Emergency Core Cooling injection valves were found susceptible to PL. The PER process drives a prompt operability accessment. This operability assessment found all susceptible valves operable. However, engineering judgement was used which needed more justification for long term resolution of the issue. Calculations were initially done to determine margin. These calculations used the best available information. Because the margin was low in some cases, stronger justification was needed.

### **MODIFICATIONS**

Two valves, RHR-V-8 & 9, with the least margin were determined not to have a safety function in the open direction. However, since during their normal operation they could be subject to pressure locking, it was decided to perform a modification to the valves.

One other valve, LPCS-V-5, also had low margin and was modified at the next refueling outage.

Another valve, HPCS-V-4 is subject to pressure locking during surveillance testing. The surveillance procedures were modified to identify this potential PL condition to plant operators.

### CALCULATIONS & ENHANCED METHODOLOGY

The remaining four valves, RCIC-V-13 and RHR-V-42A, 42B & 42C, as previously stated were all found to be operable by engineering calculation. RCIC-V-13 had significant margin and was The LPCI injection valves, RHR-V-42A/42B/42C, were only not considered a concern. A progressive verification approach was used where the initial: marginally acceptable. The calculational calculations were later augmented with more indepth calculations. methodology used the Grand Gulf approach. After looking at this methodology, it was determined that it should be modified to also include the "wedge pressure effect". Due to the shape of a wedge gate valve a small force is created in the close direction due to the larger area that pressure has to act on in the bonnet. This force was added to the static unwedging load plus the running load. Compensation for the stem piston effect was included. Even after the wedge pressure effect was added, all of the valves were demonstrated by the calculation to be operable under the worst case scenario at degraded voltage. Attachment 1 contains an overview of the calculational methodology used at WNP-2.

To confirm the assumptions in the calculation and to provide additional justification, testing at simulated pressure locked conditions are planned.

#### TESTING PLANS

The Supply System's maintenance training organization has a 10", 900 lb flex wedge gate valve which is to be used for the confirmatory testing. The test semp will include welding one end of the valve and adding pressure connections to the closed end and to the bonnet. This way, one pressure can be put on one side of the valve and a different pressure can be put in the bonnet. This should simulate a pressure locked valve. In addition, this valve sticks in the closed direction which is similar to most of the flex wedge gate valves in the plant. The valve has an SMB-2 operator which is smaller than the LPCI injection valve's SMB-3 operator, but the technique is similar. A specific date has not been set for the testing at this time.

Commonwealth Edison has conducted testing of valves under pressure locked conditions. Also, valve 24 of the EPRI Performance Perdiction Program was stroked under pressure locked conditions. The Supply System may opt to use the EPRI or CE test results in lieu of the testing described above.

#### NRC INSPECTION 95-24

During the WNP-2 MOV Closure Inspection, 95-24, pressure locking of GL 89-10 gate valves was reviewed in considerable detail. The calculational methodology was applauded since it went beyond the Grand Gulf methodology which was considered state of the art. The inspectors did take exception to the premise that hydraulic lock is a subset of pressure lock. We agreed to disagree. The inspection did point out that the basis of the screening criteria did not agree with most of the industry and that additional justification would be needed.

It is noted that the Commonwealth Edison PL testing has been unable to completely vent bonnets to get water solid conditions. The CE testing seems to demonstrate that under static conditions the previously published numbers for pressure rise may be very conservative.

#### **GENERIC LETTER 95-07**

At WNP-2, GL 95-07 does not appear to change the basic recommendations included in GL 89-10, Supplement 6. Recent NRC enforcement actions with respect to hydraulic lock and the inspection at WNP-2 have had an impact on how the previous report on PL/TB in viewed today.

#### **OPERABILITY**

One of the most important issues with PL/TB is identifying susceptible valves and then being able to continue operations. A conservative and timely call on operability may well declare a valve or valves inoperable. This, of course, is not very palatable with plant management. If one looks at the WNP-2 MOVs above, the LPCI injection valves, one quickly concludes that all valves are roughly the same. And if they were susceptible to PL/TB, then a plant shutdown would be warranted. Many times if enough time is allotted to perform a detailed analysis more margin exists than originally thought. Therefore, a conservative call on operability might unnecessarily shut the plant down.

### **FUTURE ACTIONS**

The Supply System plans to re-evaluate it position on PL/TB. The screening criteria, particularly for hydraulic lock and thermal binding will be re-assessed. To date hydraulic lock has been viewed as a subset of PL. In other words if pressure locking (depressurization event) did not occur first than hydraulic lock would not occur. Another assumption is that horizontally installed valves will not experience hydraulic lock since there will always be some small air pocket. This may well be the case but justification for this position is not readily apparent. Thermal binding has been dispelled for all flex wedge gate valves. Again, this position may need additional justification or re-evaluation.

# CALCULATIONAL METHODOLOGY

**ATTACHMENT 1** 

## Summation of Static Unwedging & Running Loads and Pressure Forces

Static Unwedging Load

Running Load

• Piston Effect

Wedge Pressure Effect

Pressure Locking Load

## Static Unwedging Load

The unseating load measured during static testing consists of:

- The load required to overcome open packing load
- The force required to overcome the seat to disk contact load under static conditions

The Static Unwedging Loads (SUW) exist under pressure locking conditions.

## **Running Load**

• The load measured under design basis dP conditions, or

• The calculated load for design basis dP based on the accepted valve factor.

The Running Load (RL) is conservatively included in the Required Thrust to Open (RTO) for pressure locking.

### Piston Effect

• The difference between the bonnet pressure and ambient pressure outside the valve body results in a stem ejection force (or piston effect). This force is in the direction which assist valve opening. The magnitude of this force is calculated using the equation below:

$$F_{piston} = (\pi/4) \times D^2 \times (P_{bonnet} - P_{atm})$$

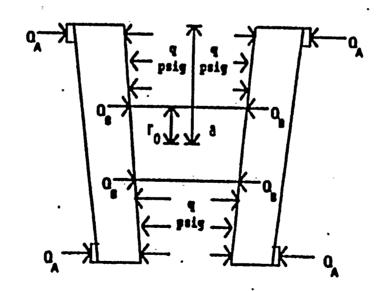
## Vertical Downward Force on Disk

- Pressure exerts a downward force on the valve disk.
- This force is calculated for each side of the disk by multiplying the vertical projected area of the valve disk times the differential pressure across that disk face. The equation below is used:

$$F_{vert} = (\pi/4) x D^2 x \sin(\theta_{seat}) x \left[ 2P_{bonnet} - P_{inlet} - P_{outlet} \right]$$

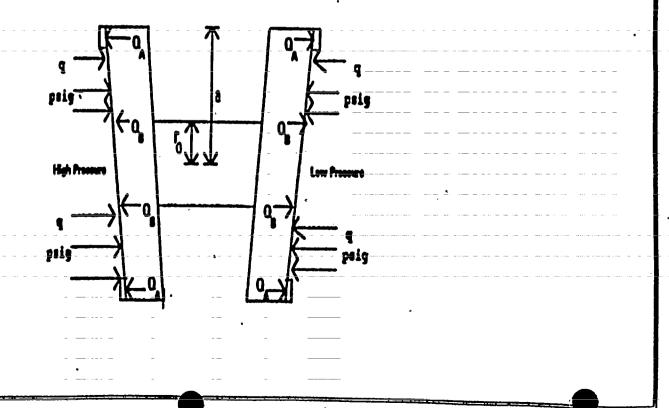
## **Pressure Locking Force**

• Determine the force exerted on the seat ring by the disc due to internal pressure using Roark, Table 24, Case 2d.



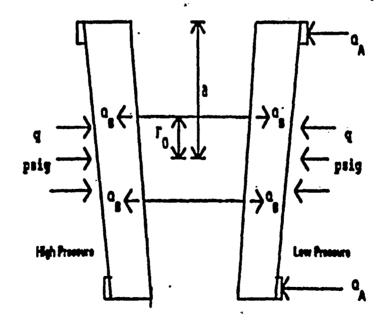
# Pressure Locking Force (cont'd)

• Determine forces exerted by external pressures on the high and low pressure sides using Case 2d and 1b.



### Pressure Locking Force (cont'd)

 Case 1b for increased force on the low pressure disc due to hub area that was left out of Case 2d equations.



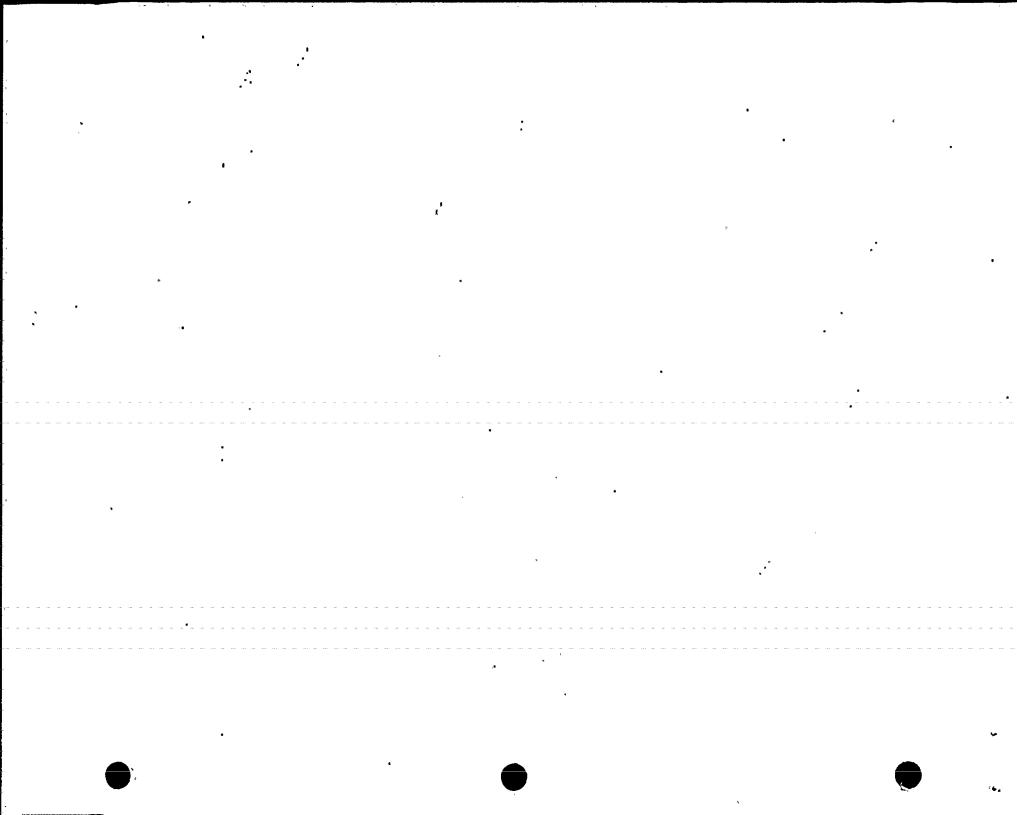
## Pressure Locking Force (cont'd)

- The above analysis results in total disc force from pressure locking on the high pressure side and the low pressure side.
- The required thrust to overcome pressure locking only (RT<sub>p</sub>) is the total disc force due to pressure locking times the valve factor.

## Required Thrust To Open

• The RTO is indicated below:

$$RTO = SUW + RL - F_{piston} + F_{vert} + RT_{p}$$



## NRC Region 4 Arlington, Texas

Workshop on Generic Letter 95-07
Pressure Locking and Thermal Binding
November 9, 1995

# Thermal Binding Analysis

Bill R. Black, P.E. TU Electric

# THERMAL BINDING & PRESSURE LOCKING OF GATE VALVES

- Of COURSE it can be Analyzed!
- Do We Need To?
   If so for Some MOVs,
   at What Level of Sophistication?
- Challenge: Validate Analytical Method

## DO WE NEED TO?

- If we can't justify operability on the basis of prior operation with conditions equal or greater than the design pressure/thermal conditions.

## AT WHAT LEVEL OF SOPHISTICATION?

- as little as we can get by with!
- Formulas for Stress and Strain, Roark & Young

### **MODEL VALIDATION - WHAT TESTING?**

- The Least Possible
- In the Lab

## LOADS ON THE DISK AFFECTING UNSEATING THRUST (Tun,t)

- Design Basis Upstream & Downstream Pressure
- Residual Wedging from Prior Closing Stroke
- Loads due to Temperature Changes:
  - Bonnet Cavity Pressure
  - Stem Elongation/Body Shrinkage after closing
  - Piping Loads on Valve End
  - Different Rates of Thermal Growth/Shrinkage:
     Disk, Seat Rings, Body

Tun,t = Tun,d + Tun,bp + Tun,sg + Tun,ax

# DESIGN BASIS UPSTREAM & DOWNSTREAM PRESSURE

- Use Results of Generic Letter 89-10 for determining dynamic unseating thrust Tun,d
- Use As-Built Total Closing Stroke Stem Thrust (greater closing thrust → greater unseating thrust)
- Use Upstream & Downstream Pressure postulated when Thermal Binding potential is also postulated (large valves: DP increases unseating thrust)

# CALCULATING GL 95-07 LOADS: **Tun,bp** & Tun,sg & Tun,ax

Tun,bp = additional unscating load required to overcome the effects of the bonnet cavity pressure

Being developed by Commonwealth Edison

- Similar simple analytical model
- Testing in progress to validate the model

# CALCULATING GL 95-07 LOADS: Tun,bp & Tun,sg & Tun,ax

DETERMINE:  $\mu_{avg} = average$  seat friction coeff.

$$\frac{\text{Tun,s}}{\text{TTOTc}} \left\langle \frac{(\mu_{\text{avg}} \cos \theta - \sin \theta)(\cos \theta - \mu_{\text{avg}} \sin \theta)}{(\mu_{\text{avg}} \cos \theta + \sin \theta)(\cos \theta + \mu_{\text{avg}} \sin \theta)} \right.$$

where θ = Seat angle
 Tun,s = Static Unseating Thrust
 TTOTc = Prior Static Total Closing Thrust

# CALCULATING GL 95-07 LOADS: Tun,bp & Tun,sg & Tun,ax

DETERMINE: Km = MOV stiffness along stem axis, excluding the stem

$$Km = \Delta TTOTc$$

 $(\Delta\theta sn/360^{\circ})(Lstem) - (\Delta TTOTc)(Kstem)$ 

where 
$$Kstem = (K_{threaded}^{-1} + K_{threaded,inc}^{-1} + K_{solid}^{-1})^{-1}$$

8

# CALCULATING GL 95-07 LOADS: Tun,bp & **Tun,sg** & Tun,ax

Tun,sg = 
$$(\Delta Tsg)(A)$$
  
where
$$A = \frac{(\mu_{avg} \cos\theta - \sin\theta)(\cos\theta - \mu_{avg} \sin\theta)}{(\mu_{avg} \cos\theta + \sin\theta)(\cos\theta + \mu_{avg} \sin\theta)}$$

$$\Delta Tsg = (Cts)(Lexp)(\Delta temp,sg)(Kmov)$$

$$Kmov = (Km-1 + K_{threaded}^{-1} + K_{solid}^{-1} + K_{solid,inc}^{-1})^{-1}$$

# CALCULATING GL 95-07 LOADS: Tun,bp & Tun,sg & Tun,ax

$$Tun,ax = (F_{body,therm}) \cdot (2) \cdot \frac{(\mu_{avg} \cos\theta - \sin\theta)}{(\cos\theta + \mu_{avg} \sin\theta)}$$

$$F_{body,therm} = \frac{(Kba)(Knet,a)}{Kba + Knet,a} \cdot (\sum C_i \cdot L_i \cdot \Delta temp_i)$$

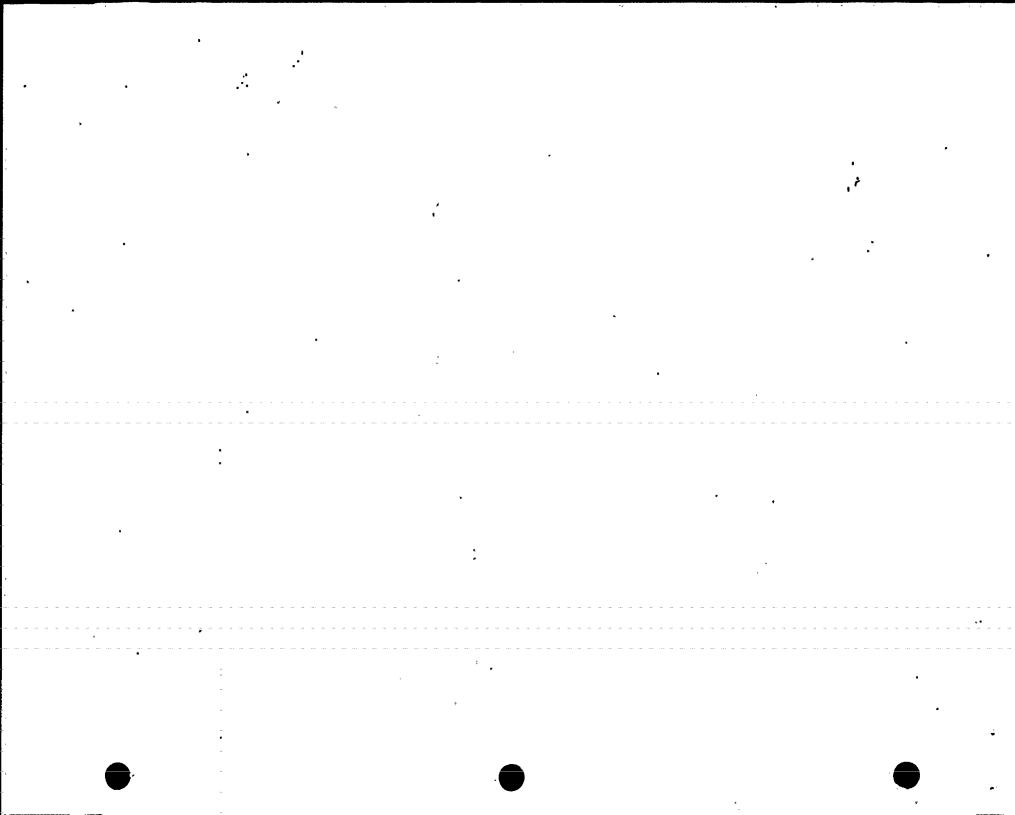
Kba = body stiffness between ends of seat rings Knet,a = net stiffness along pipe axis of the 2 seat rings, 2 wedge "plates" and wedge "hub"

# THERMAL BINDING MODEL VALIDATION STATUS

Transmit to Commonwealth Edison 10-25-95 Transmit to Westinghouse Owner's Group 11-1-95

Commonwealth Edison presentation to Region 3 on 11-7-95: pursuing validation testing of model.

Copy of TU Electric transmittal to Commonwealth Edison is available to any interested party.





October 25, 1995

Mr. Brian Bunte Commonwealth Edison 708-663-3824 708-663-7118 FAX

#### Dear Mr. Bunte:

TU Electric has created and is trying to validate an analytical model of gate valve body, seat ring, gate wedge, stem, and extended structure stiffnesses. It is intended that the model will be used to analyze the effects of differential pressure distributions on, and temperature changes in, the structural elements. If successful, the model will be a useful tool in responding to the recent NRC Generic Letter 95-07. Your on-going tests to assess these effects may provide data by which validation of the analytical model may be accomplished.

This letter is intended to solicit your cooperation in assessing the present analytical model developed by TU Electric. Our cooperative efforts may result in providing utilities with a less expensive way to resolve Generic Letter 95-07 concerns.

If you have insights which would beneficially refine TU Electric's efforts, you are cordially invited to share these with us. The methodology we are presently planning to use for modeling the stiffnesses of the various structural components (excluding the stem and the extended valve structure) is described below.

- 1. Use simple flat plate, and solid or hollow right cylinders, in combination to simulate the structures.
- 2. Model the hub of the wedge as a solid cylinder of radius  $r_{hab}$ , and length  $L_{hab}$ . The stiffness  $K_{hab}$  of the hub model relating axial deflection to an axial load uniformly applied over the end of the cylinder (along the pipe axis) is:

$$K_{hub}$$
 = (Area)(Young's Modulus) / (Length)  
=  $[(\pi)(r_{hub})^2] [E_{wedge} / L_{hub}]$  ...

3. Model each of the two disks of the wedge as a flat plate of outer radius  $\mathbf{a}_{disk}$ , thickness  $\mathbf{t}_{disk}$ , and inner radius  $\mathbf{r}_{bub}$ . Model the inner edge as rigidly fixed, and the outer edge as free. Model the applied load on the disk seat ring as a ring load of radius  $\mathbf{r}_{load}$  equal to the mean valve body seat radius. The stiffness  $\mathbf{K}_{plate}$  of each plate model relating bending

deflection of the plate at radius  $r_{lead}$  to the ring load at that diameter is (Ref. 1, Table 24, Case 11):

$$K_{place} = [2 \pi r_{load} D / (a_{disk})^{3}] / [(C_{2} / C_{1}) \{(r_{load} C_{9} / r_{hub}) - L_{9}\} - (r_{load} C_{3} / r_{hub}) + L_{3}]$$

where 
$$D = E_{wedge} (t_{slick})^3 / 12 (1 - v^2)$$

4. The overall stiffness K<sub>wedge</sub> of the wedge is the series combination of the stiffnesses of the hub and the two disks:

$$K_{\text{wedge}} = [(1 / K_{\text{plate}}) + (1 / K_{\text{tach}}) + (1 / K_{\text{plate}})]^{-1}$$

5. Given an compressive ring load of magnitude  $F_{\text{test}}$  and radius  $r_{\text{head}}$  applied to the upstream wedge seat and reacted at the downstream wedge seat, the relative deflection  $y_{\text{seat}}$  of the upstream seat toward the downstream seat is:

$$y_{\text{sect}} = F_{\text{sect}} / K_{\text{wedge}}$$

It is important to select values for the hub radius and length, and the disk plate thickness and outer radius so that the model closely simulates the actual wedge's relative seat deflection under the same loading. TU Electric presently believes the plate thickness  $t_{\rm disk}$  should be the average thickness of the actual wedge's plate from the bottom of the disk to the top of the wedge and from the inner radius  $r_{\rm hab}$  to the outside radius  $r_{\rm hab}$ .

Figures 1 through 3 provide illustrations of the dimensions which may be appropriate for the model described above. Note the following derived dimensions:

thickness of wedge plate along the pipe centerline from the outer surface of the plate (point A) to the average thickness of the sloped inner surface of the plate (point B). Point B is the point on the axis of the pipe which intersects a plane perpendicular to the pipe axis and at a distance ((L<sub>a</sub> + L<sub>b</sub>)/2) from the stem centerline.

$$L_{hab} = L_a + L_b$$

$$\mathbf{r}_{load} = (\mathbf{D2} + \mathbf{E2})/2$$

Mr. Bunte: Valve Data for TU Electric

6. Model each of the valve body seat ring inserts as hollow right cylinders of inside diameter E3 and outside diameter D3 and average length L<sub>r</sub> (in a plane perpendicular to the stem axis and containing the pipe axis). The stiffness K<sub>r</sub> of the seat ring model relating deflection along the pipe axis to an axial load F<sub>seat</sub> uniformly applied over the end of the seat ring is:

$$K_{\pi}$$
 = (Cross-sectional Area)(Young's Modulus) / (Length)  
=  $[(\pi)(D3^2 - E3^2)/4][E_{\pi}/L_{\pi}]$ 

Model the valve body between the outer ends of the seat ring inserts as a hollow right circular cylinder of inner diameter  $\mathbf{r}_{bedy}$  and outer radius equal to the sum  $(\mathbf{r}_{bedy} + \mathbf{t}_{bedy})$  and length  $\mathbf{L}_{bedy}$  equal to the sum  $(2 \mathbf{L}_{bedy} + 2 \mathbf{t}_{disk} + \mathbf{L}_{bedy})$ . The stiffness  $K_{body}$  of the valve body model relating deflection along the pipe axis to a load  $F_{seat}$  uniformly applied over the end of the seat ring along the pipe axis is:

$$K_{body}$$
 = (Cross-sectional Area)(Young's Modulus) / (Length)  
=  $[(\pi)((r_{body} + t_{body})^2 - r_{body}^2)] [E_{body} / L_{body}]$ 

Other dimensions needed in order for TU Electric to perform the desired analyses are illustrated in Figure 4: the length  $L_{\infty}$  of the stem from the bottom of the stem "T Head" to the bottom of the packing chamber in the valve bonnet when the valve is in the closed position with the disk pushed hard into the valve body seat by the stem, and the length  $L_{\infty}$  of the stem from the bottom of the "T Head" to the start of the threaded section of the stem. Also required is the length  $L_{\infty}$  of the stem from the bottom of the stem "T Head" to the bottom of the actuator stem nut when the stem is pushing the wedge hard into the valve body seat:

where

$$L_{toy} = L_{toy} + Y_{to}$$

where

$$L_{toy} = length of the stem from the bottom of the stem "T Head" to the top of the yoke-actuator mounting platform when the stem is pushing the wedge hard into the valve body seat

$$Y_{tot} = distance from the top of the yoke (the base of the actuator) to the bottom of the stem nut inside the actuator.$$$$

Note: TU Electric can obtain the value of the dimension  $Y_{ss}$  by inspection of an appropriate actuator sample. You are requested to provide the values of dimensions  $L_{ss}$ ,  $L_{ss}$ , and  $L_{toy}$ .

Mr. Bunte: Valve Data for TU Electric

TU Electric will use the above dimensions to also quantify loads resulting from the thermal growth or contraction of the structural components. It is intended that confidence in the applicability of the analytical model will be gained by comparing test results with the results of the analytical model. As needed, the model will be refined.

Test data which is being collected by Commonwealth Edison can be used along with the needed dimensions and material properties to evaluate or verify the model. To accomplish this, in addition to the data identified above, please provide the following test data and other information for use by TU Electric in evaluating the analytical model:

A. Static test data from pairs of closing and <u>subsequent</u> opening strokes. Data for <u>several</u> pairs of close and open strokes is desirable for addressing repeatability of valve performance. For the duration of these tests, the temperature of the valve body and internal components shall be maintained at room temperature.

Thrust at control switch trip, Test,s
Total thrust after control switch trip, TTOTs
Peak unseating thrust, Tun,s

- B. With the valve fully closed, measure the amount of stem thrust increase resulting from further rotation of the stem nut. Small amounts of rotation, 10 to 15 degrees, are sufficient if measured accurately (within about 5% of reading) along with the resulting stem thrust changes that are also accurately measured. Provide the results of the measurements and the accuracies of the measurements.
- C. Stem geometry as follows:

Stem unthreaded section diameter
Stem threaded section outside diameter, thread pitch, thread lead, and thread style:
(ACME standard or stub)

- D. Materials of the valve body, valve body seat ring inserts, the wedge (obturator), and the stem. If available, also provide:
  - the <u>average</u> thermal coefficients of expansion (in/in/degree F) for the ranges of temperature changes experienced by the wedge, the seat rings, the valve body, the stem inside the valve body, and the stem outside the valve body during testing of the valve assemblies for thermal binding effects.
  - Young's Modulus for each material

Mr. Bunte: Valve Data for TU Electric

E. The sequence and values of temperature of the wedge upstream face, the hub, the wedge downstream face (if these are different), the upstream and downstream valve body seat ring inserts, and the valve body between the outer ends of the seat ring inserts.

Your interest in this effort as previously expressed to me is greatly encouraging to me. I look forward to our cooperation in evaluating the analytical model. If you have any questions, please contact Sid Chiu at 817-897-6510 or me at 817-897-6477. Our FAX number is 817-897-0868.

Sincerely,

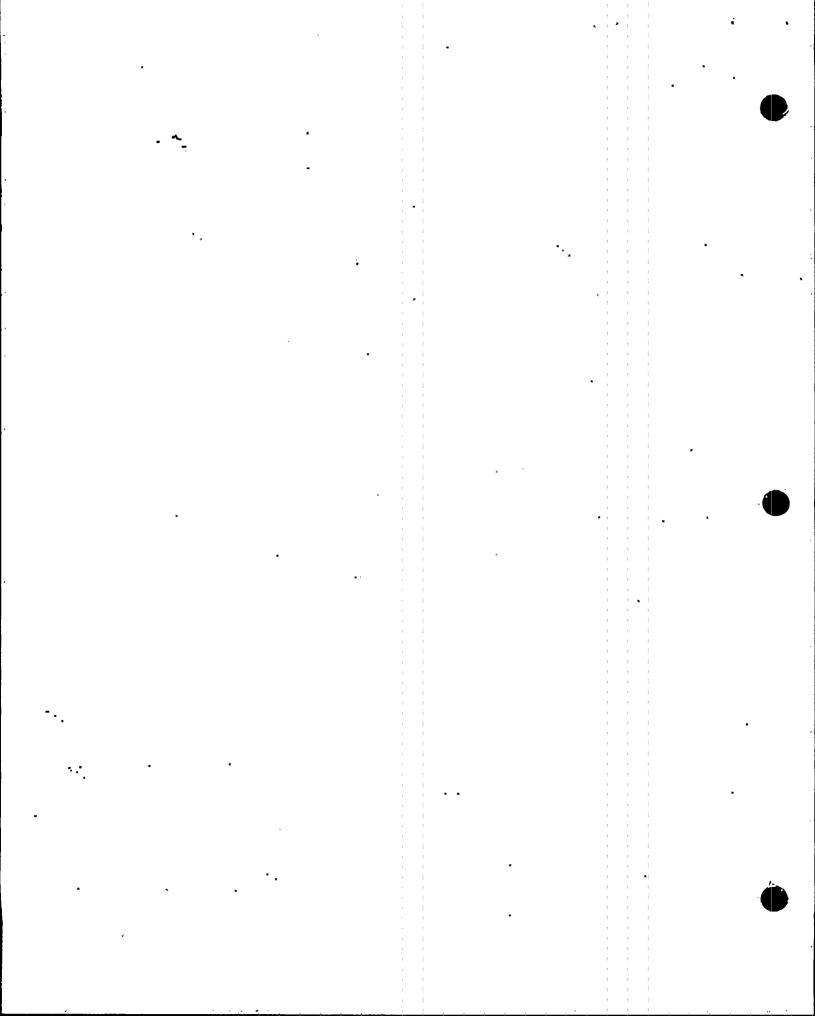
Bill R. Black, P.E.

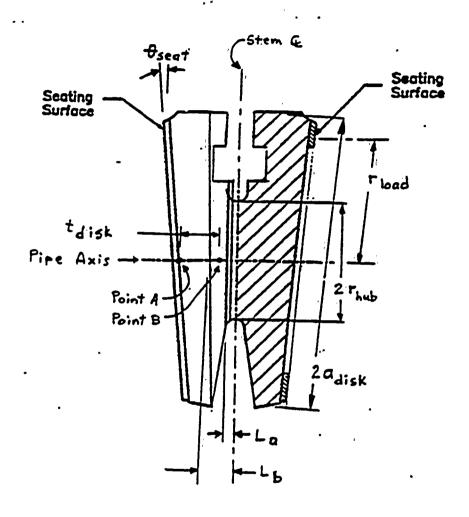
Attachments

(Figures 1-4)

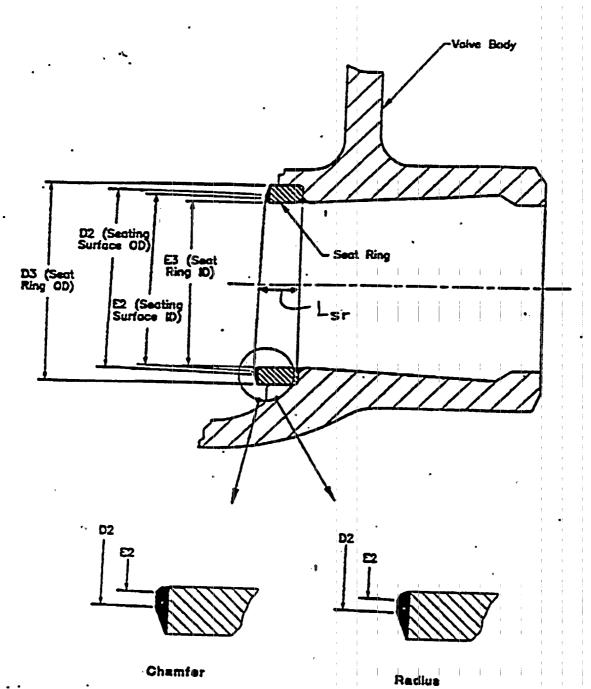
(Hand-written development of analysis method, 5 pages)

cc: Sid Chiu





# DIMENSIONS FOR FLEXIBLE WEDGE GATE VALVES FIGURE 1



D2 and E2 are Diameters to the Edge of the Flat Seating Surface, Measured in the Plane of the Seat Ring.

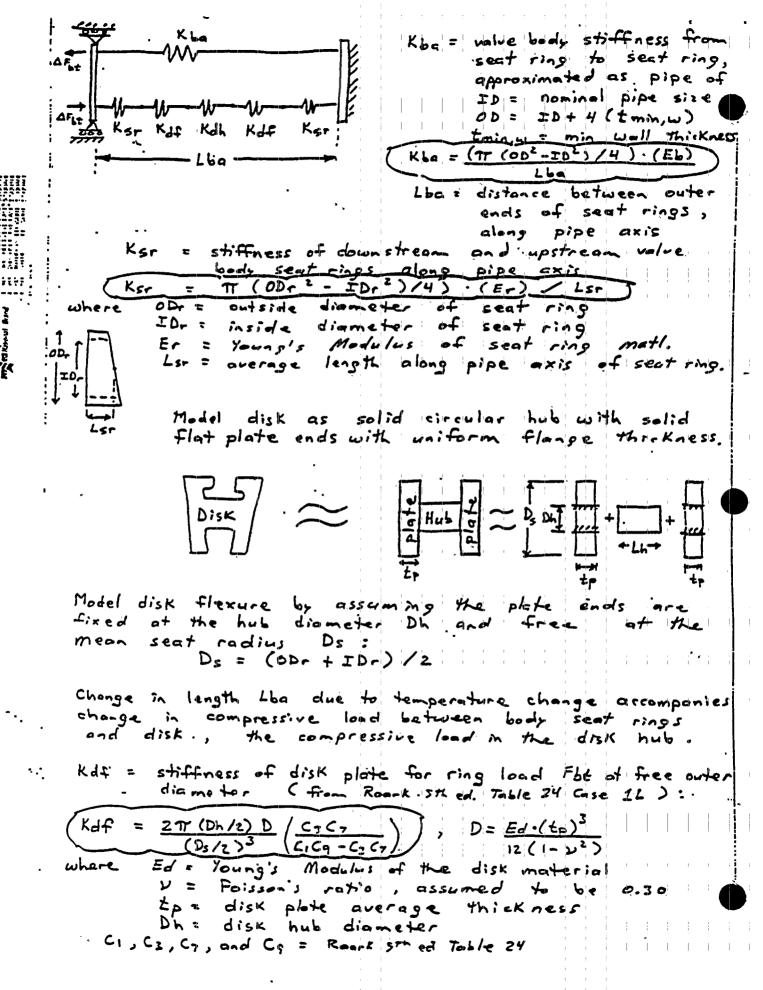
# SEAT RING DIAMETERS FIGURE 2

<u>DTt bs = increase in post-clase</u> skm thrust due to thermal strink of body Alths . Knet, b ALEbs = reduction in body length along stem axis minus reduction in disk length along stem axis where Ctb · Leb · | Atbs | - Ctd · Led · | Atds | therm. exp. coeff for body mat/. therm. exp. .coeff. for disk mat/. length along stem axis from seat axis to top of value neck which experiences temp change length along stem axis from sext axis to base temp. change. of stem which experiences Aths = temp. decrease affecting value body Otds = temp. decrease affecting disk

 $\Delta T \pm b s$ ,  $u_n = (\Delta T \pm b s)(A)$ 

= ALths · Knet, b · A

ATths, un = [(Ctb.Leb.lathsl) - (Ctd.Led.latesl)] Ks.Km.A
(Ks + Km)



Determine average seat friction coefficient from test:

Tun, s/2At peak seating, impending slip:  $\frac{TTOT_c}{2} = F_{nc} \sin \theta + \mu F_{nc} \cos \theta$ Fine

Fine

Fine = TTOT\_c /[2(\sin\theta + \mu \cos\theta)]

: Fre = TTOTe / [2(sint + u cost)]

EFx = 0: Fre [cost - u sint] = Fhe

Fire, Flu i: Fle = TTOTe ( $\cos\theta$  -  $\mu$  shot)

Z( $\sin\theta$  +  $\mu$  cos  $\theta$ )

At peak unwedging, impending slip: EFy =0, fFu = u Fnu

(Tun,s/2) + Fou sint = u Fou cost

Tun,s = 2 Fou (µ cost - sint)

and Fou = Tun,s / [2(µ cost - sint)]

EFx = 0 => Fru cost + 1 Fru sint = Fhu
Fru (cost + 11 sint) = Fhu

 $Fhu = \frac{T_{un} \cdot (\cos\theta + \nu \sin\theta)}{2(\mu \cos\theta - \sin\theta)}$ 

Since
Fhu < Fhe

Tun,s (cos & + u sin &) < TTOTe (cos & - u sin &)

2.(u cos & - sm-&)

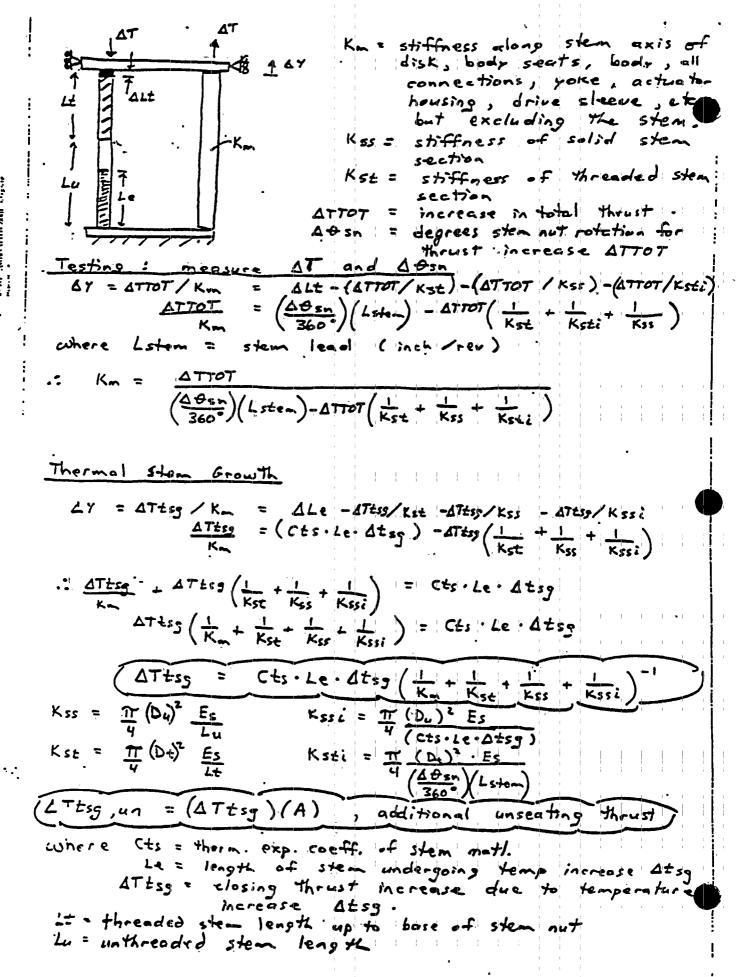
2 (sin & + u cos &)

:  $\frac{\text{[$U$n,3$}}{\text{[$T$TOTe}]} < \frac{($U$\cos\theta - $\sin\theta)(\cos\theta - $u$\sin\theta)}{($u$\cos\theta + $sin\theta)(\cos\theta + $u$\sin\theta)} = A$ 

Example: assume  $0:7^{\circ}: Tunis = 0.50:$ 

Thus, given measured values of Tun,s and TTOTC, and given the seat angle &, the average seet coefficient us can be determined iteratively.

· (Tun, s / TTOTe) [(Tuns/TTOTe) - A] A 0.40 0.5 0.4806 0.0194 0.50 0.5 0.5356 -0.0356 0.42 0.5 0.4939 0.0061 0.43 0.5 0.7000 -0.0000 Hmax = 0.43



Marken

value body in a plane perpendicular to the pipe axis and containing the stem centerline body

rb = typical inside radius of value body in the cross-section illustrated above.

tbody = typical value body <u>as-built</u>
wall thickness in the
cross-section illustrated above.

Figure. 3

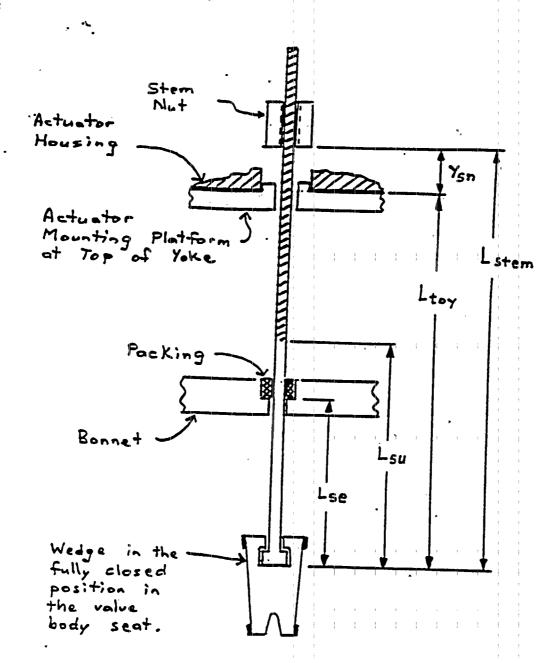


Figure 4

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\frac{Kh = s.tiffness of disk hub for axial load Fbt}{Kh = \frac{\pi}{4}(Dh)^{2}(Ed)}
```

Thermal Expansion or Contraction Loads:

eba = esr1 + edf1 + edh + edf2 + esr2

· eba = Ctba·Lba·Atba + Fbt Kba

Also, ela = Cter-Ler-(Ater1 + Ater2) + Cti.tp. (Atd1 + Atd2)

+ Ctd · Lh · Ath - Fbt Knet, a

 $K_{net,a} = \left[ \frac{2}{K_{sr}} + \frac{2}{K_{df}} + \frac{1}{K_{h}} \right]^{-1}$ 

Fbt + Fbt = Ctsr.Lsr. (Atsr/+ Atsr2) + Ctd.tp. (Atd/ + Atd2)

+ Ctd.Lh.Ath - Ctbq.Lbq.Atbq 7

= Fbt (Kba; + Knet, e)
Kbo · Knet, o

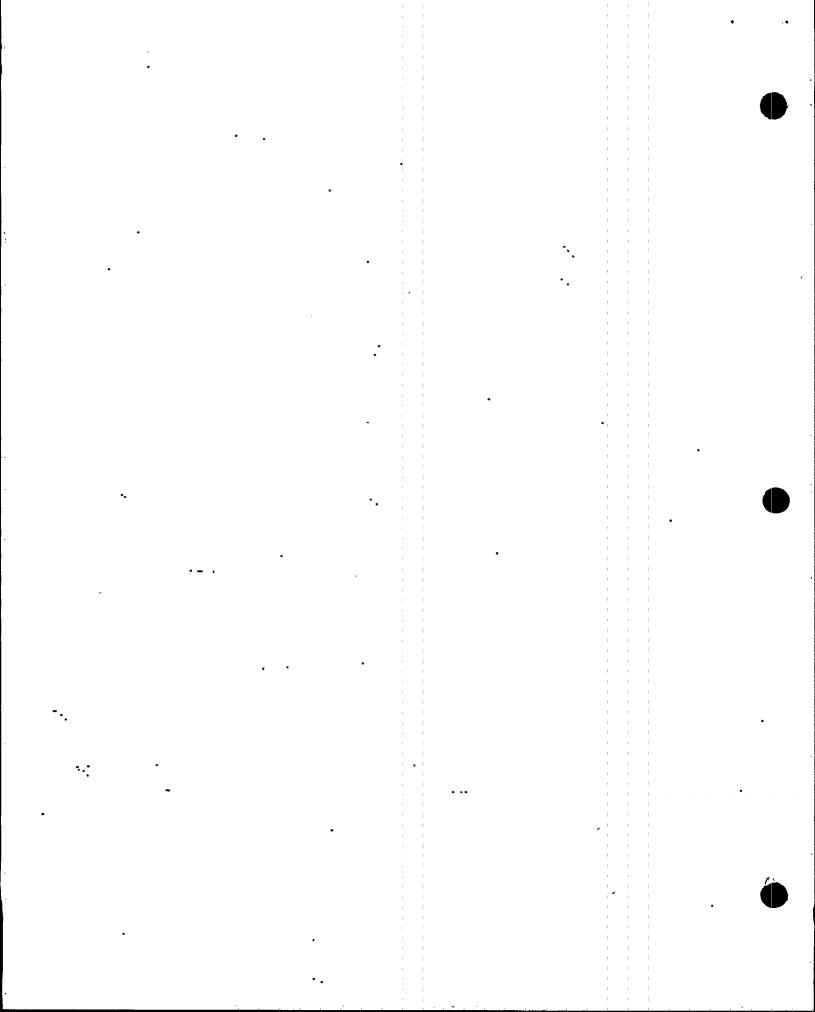
Fbt = Kbr: Knot, o [Ctsr.Lsr.(Atsrl + Atsr2) + Ctd.tp.(Atdl + Atdl) + Ctd.Lh.Ath - Ctba.Lba. Atba?

where ebo, esr1, edf1, edh, edf2, esr2 are the elongations of the parts of corresponding etiffnesses Kba, Ksr, Kdf, Kdh, Kdf, and Ksr; and

Ctba.= therm. exp. (beff. of Ctsr = sea+ ring matl. CF9 = dick matl. increase ( - if decrease) of temp. of body matl. Atba = Atsrl = " ... downstream seat ring Ater 2 = " " upstream seat ring Atd1 = " " ... downstream disk plate Atdz = " ... upstream disk plate 11 1th " ... disk hub matt.

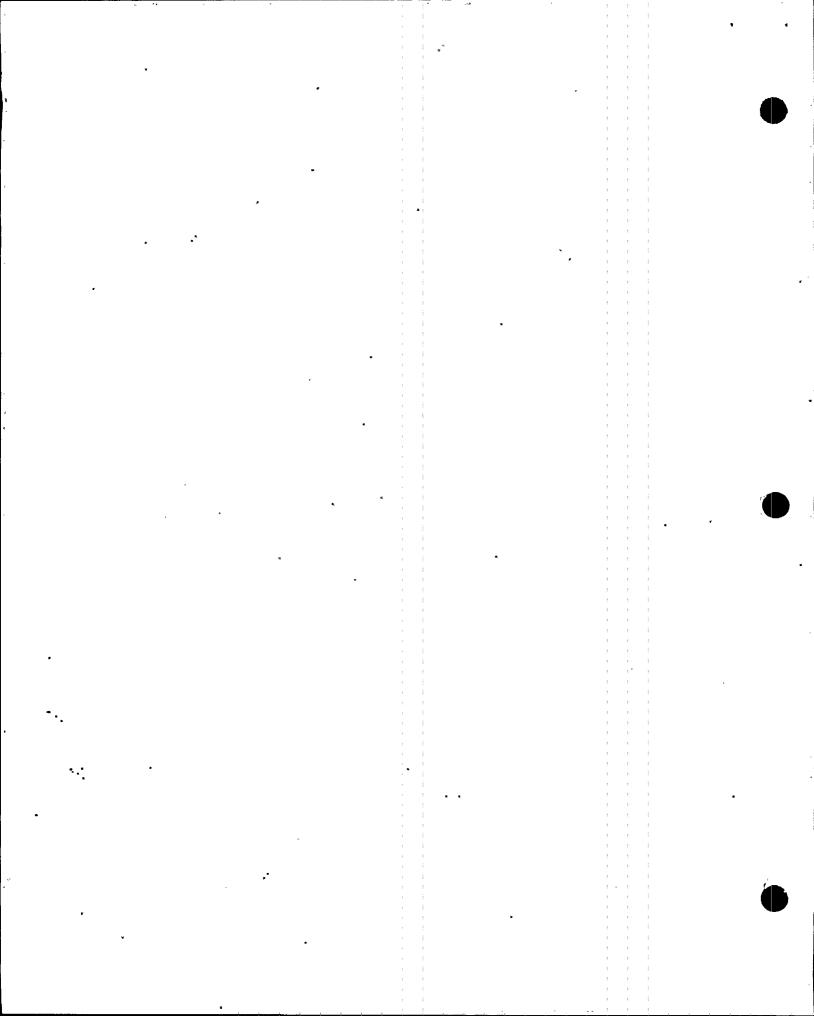
From pg.1: Fhu = Tun, s (cost + 1 sint) /[2(11cost - sint)]

 $\frac{2}{2} \Delta T t = F_b t \frac{(2)(2)(2)\cos\theta - \sin\theta}{(\cos\theta + 2)\sin\theta}$ 



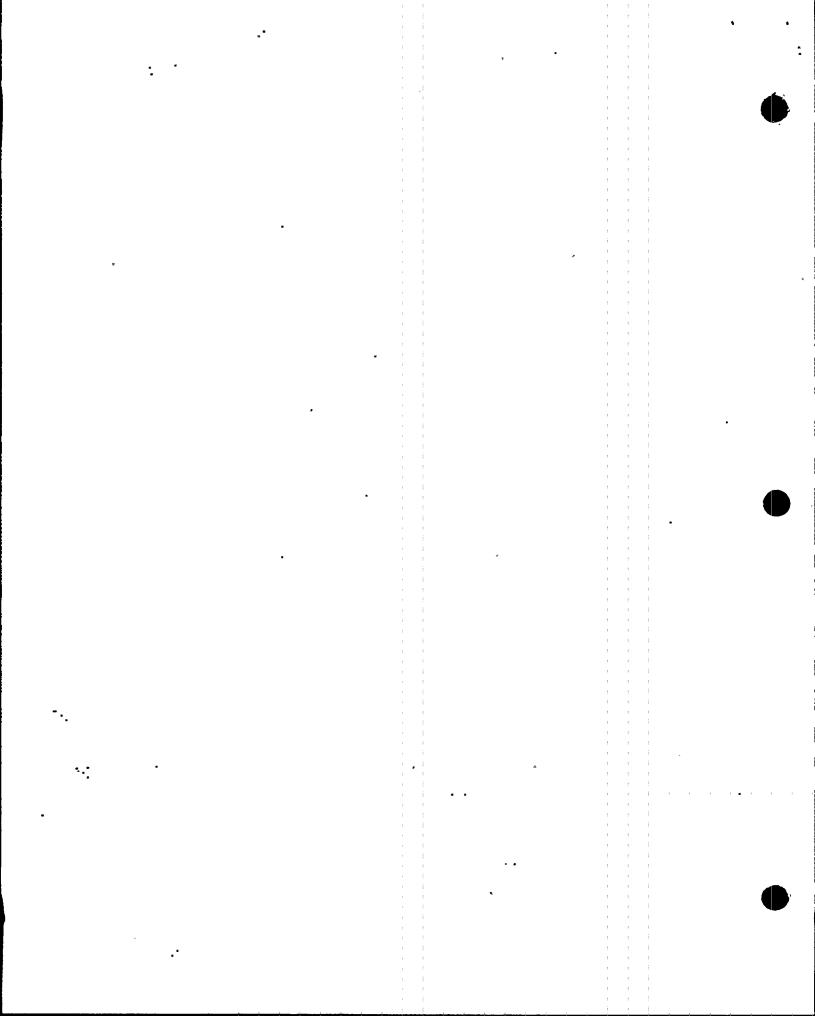
# "Utility Perspective"

Pennsylvania Power & Light Co.
Susquehanna SES
Units 1 & 2



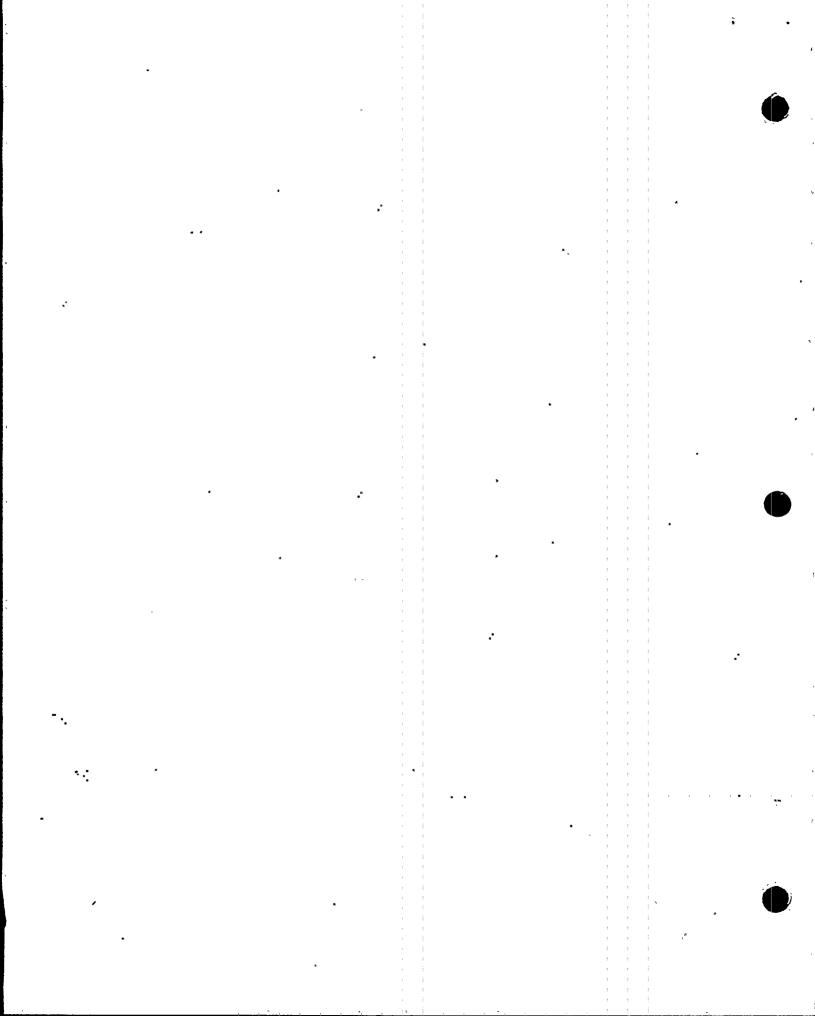
# Susceptibility Evaluation Criteria

- General Exclusion Criteria
- Thermal Binding Exclusion Criteria
- Pressure Locking Exclusion Criteria
- Specific Scenarios for PL/TB
  - Focus on specific conditions of concern
  - Supports detailed analyses to confirm susceptibility later



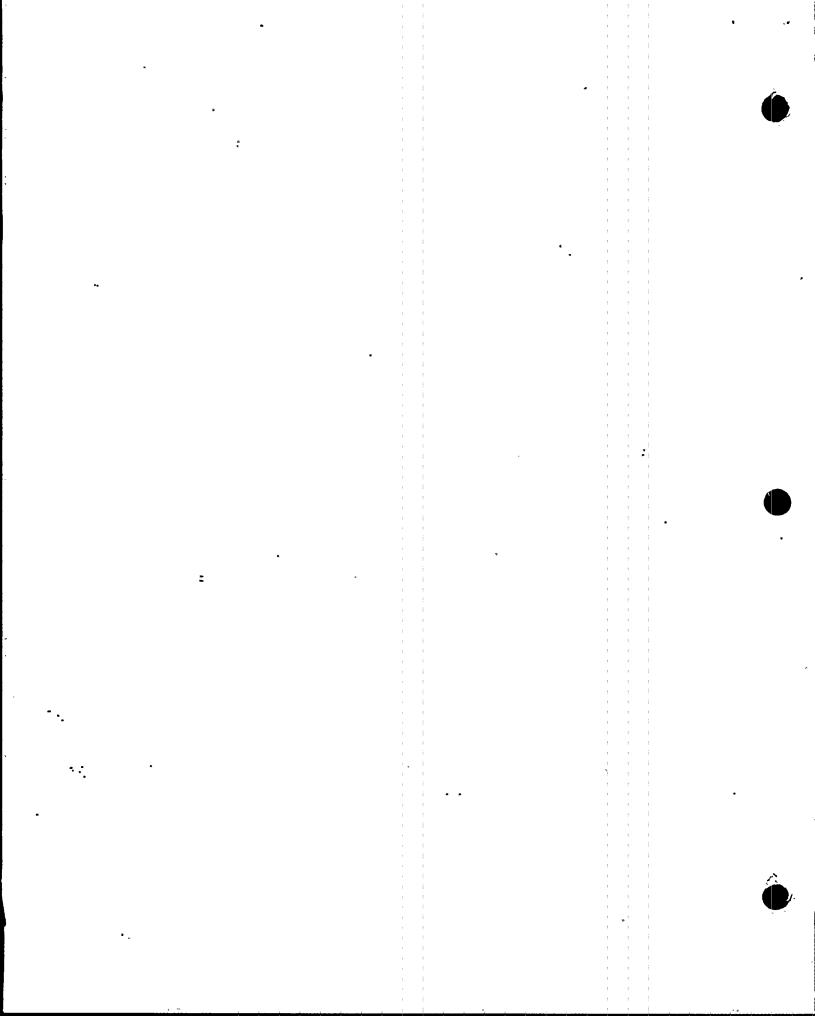
#### Risks Associated with GL 95-07

- 180 Day Completion Schedule
  - Concern: New issues arise during evaluation period
- Lack of Accepted Analytical Methodology
  - Concern: Developing methodologies in parallel with industry testing



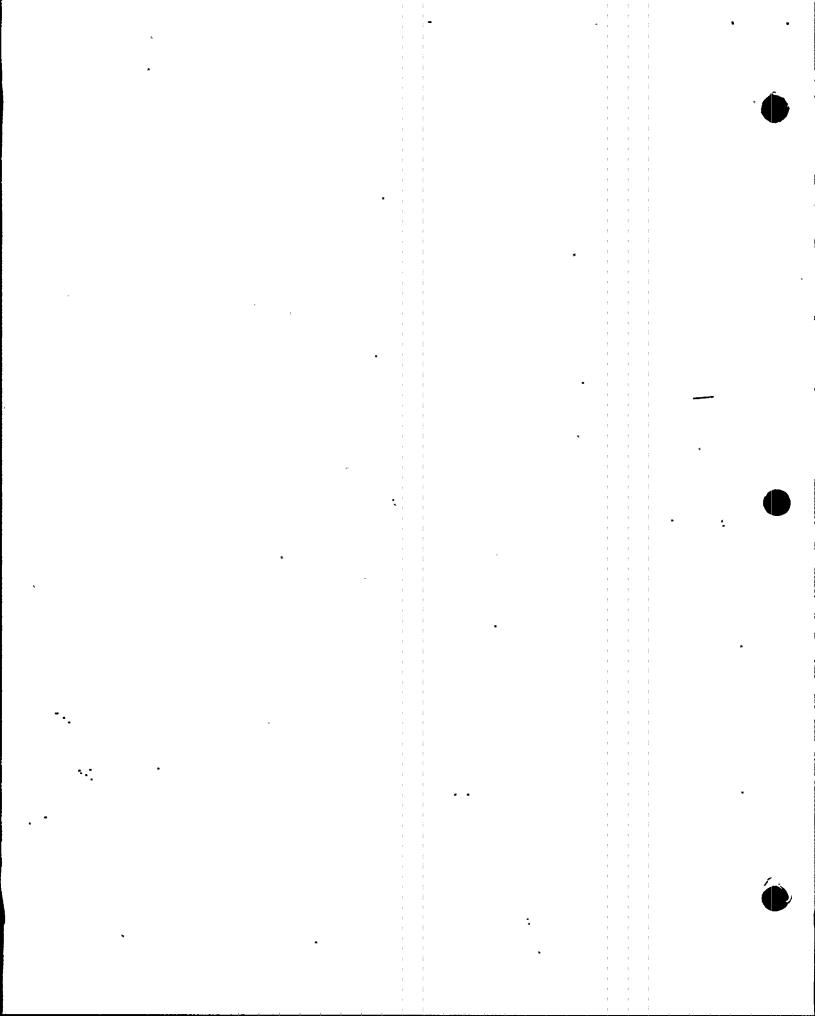
### Plan for Addressing GL 95-07

- Develop Susceptibility Evaluation Criteria
- Develop PL/TB Analytical Methodology
- Perform Screening/Operability Evaluations
- Perform Detailed Analyses Confirm Susceptibility
- Incorporate PL/TB into MOV Calculations
- Identify Corrective Actions as necessary



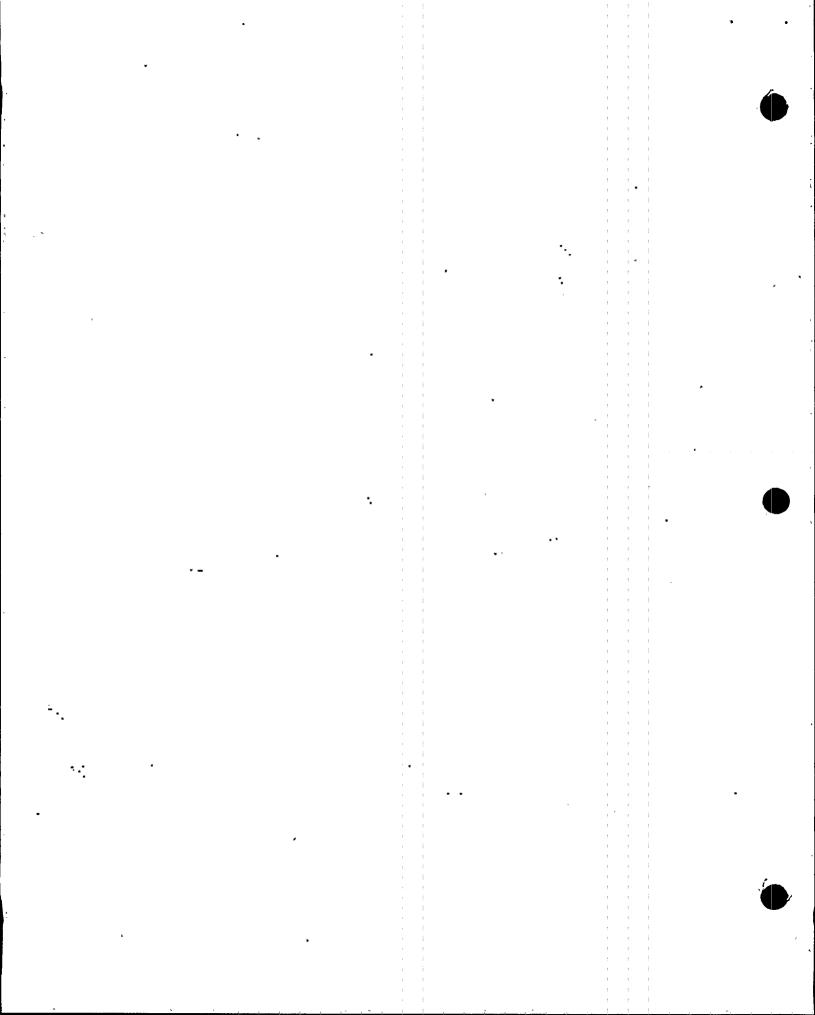
# Previous PL/TB Experience

- Drilled holes in the discs of the following valves to prevent Pressure Locking:
  - LPCI & Core Spray injection valves
  - Feedwater Pump discharge valves
- Procedure changes made to the following valves:
  - HPCI & RCIC IB Steam Supply CIVs (PL)
  - -RHR Heat Exchanger discharge valves (TB)



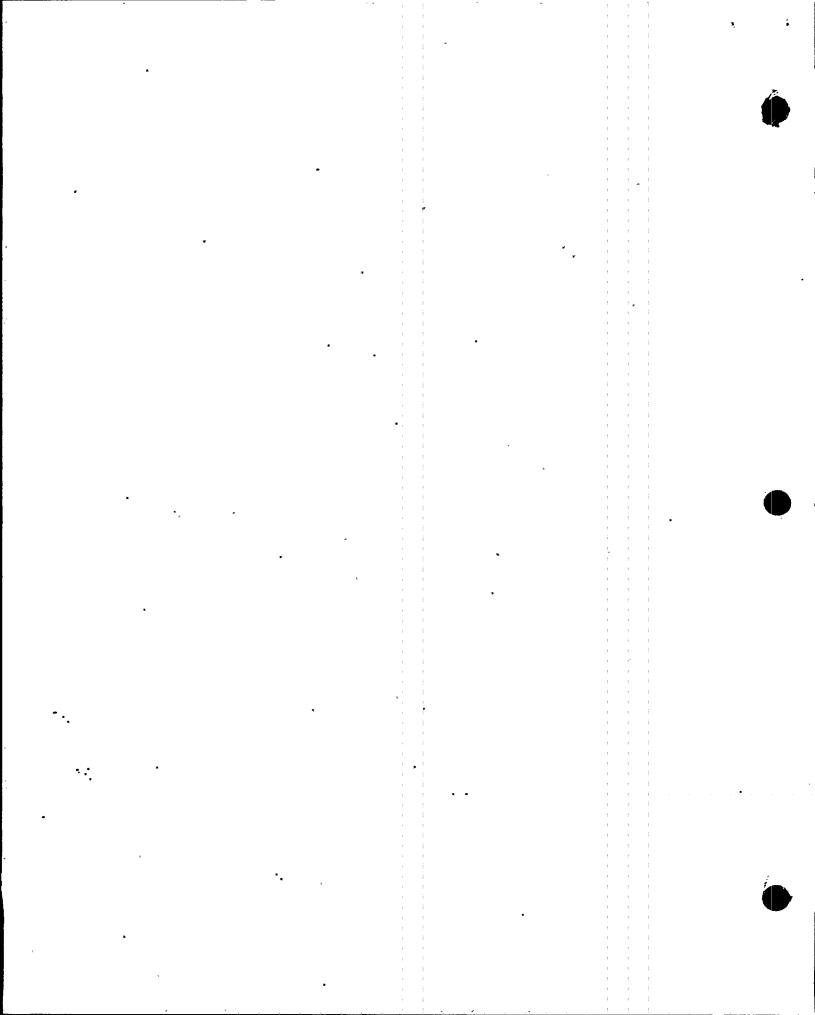
# Previous PL/TB Experience

- In response to INPO SOER 84-7, all MOV/AOVs evaluated for PL/TB
  - 388 valves evaluated
  - 26 valves identified with PL/TB concerns
  - All valves handled thru our deficiency management program
    - Operability/Reportability
    - Corrective Actions .



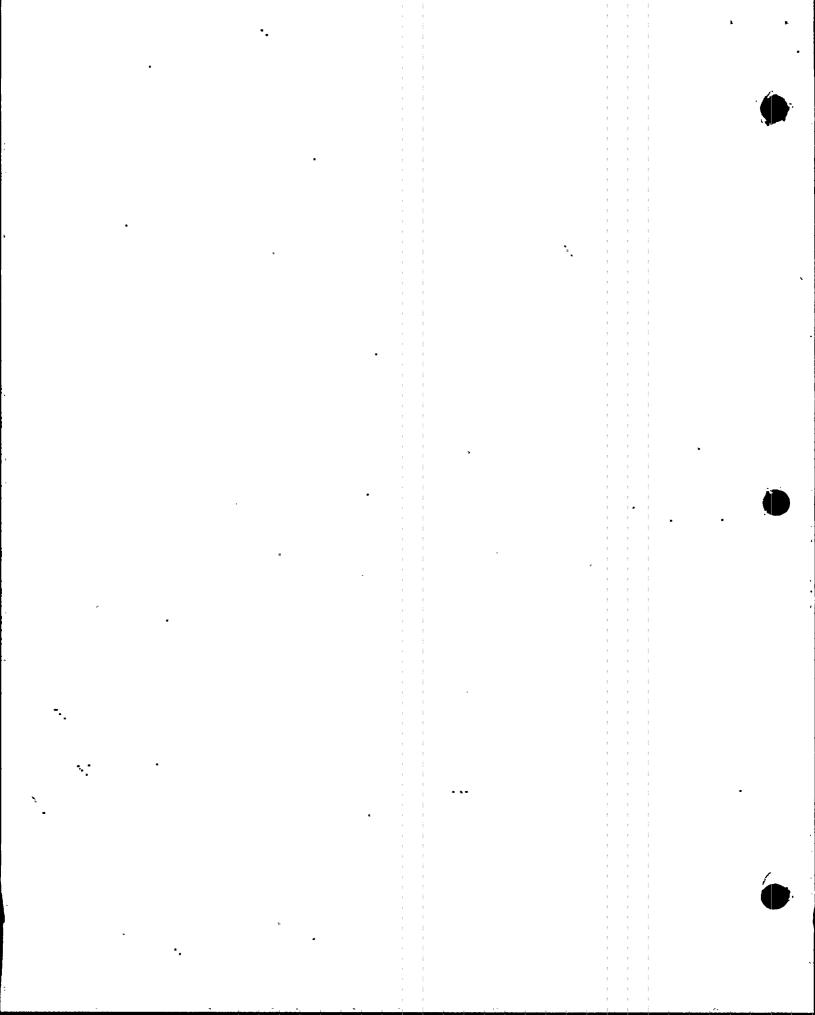
### Previous PL/TB Experience

- Monitored industry activity via our Industry Events Review Program (IERP)
- Implemented corrective actions in response to these industry events
- Continue to monitor industry activity to improve overall plant safety



# PP&L Perspective

- Previous Experience at Susquehanna SES
- Plan for Addressing Generic Letter 95-07
- Susceptibility Evaluation Criteria
- Pressure Locking/Thermal Binding Analytical Methodology



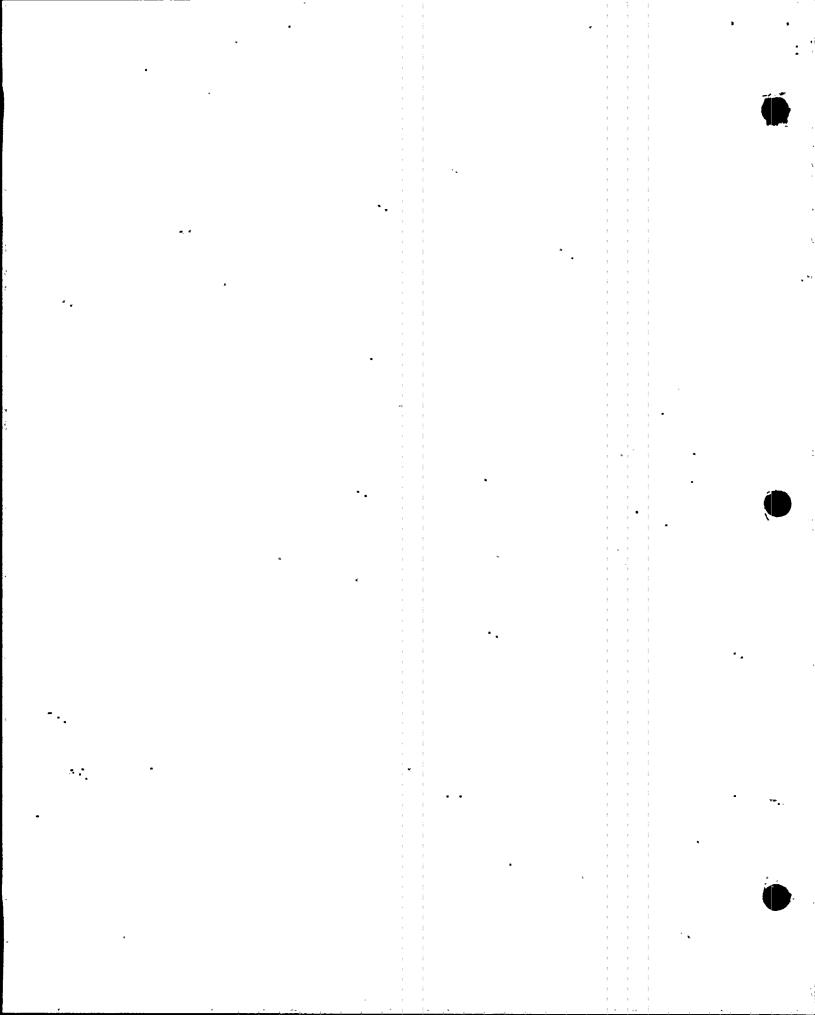
#### THERMAL GROWTH

$$\delta L = L_{TEE} (\alpha_{BODY} - \alpha_{STEM}) \Delta T_{BODY} + (L_{SI} - L_{TEE}) [(\alpha_{BODY}) \Delta T_{BODY} - (\alpha_{STEM}) \Delta T_{SR}]$$

 $\delta L$  = RELATIVE THERMAL GROWTH

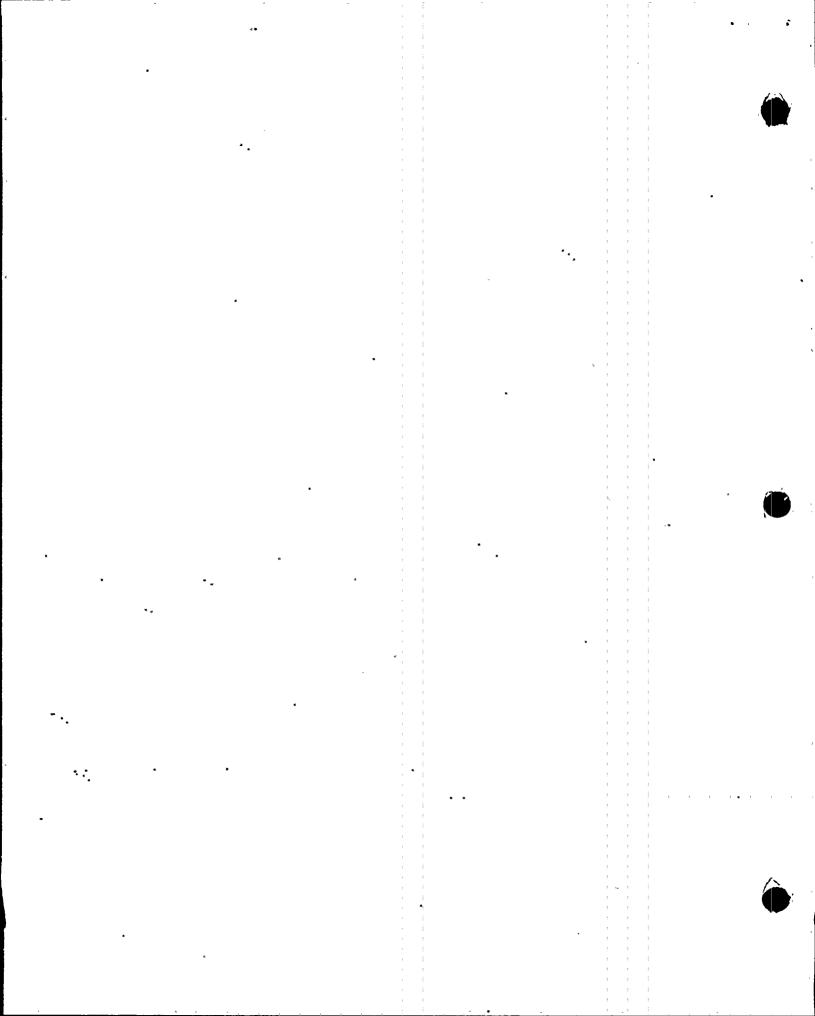
 $L_{SI}$  = LENGTH OF STEM INSERTED INTO BODY

 $\Delta T_{SR} = \Delta T$  OF STEM INITIALLY RETRACTED FROM THE VALVE BODY



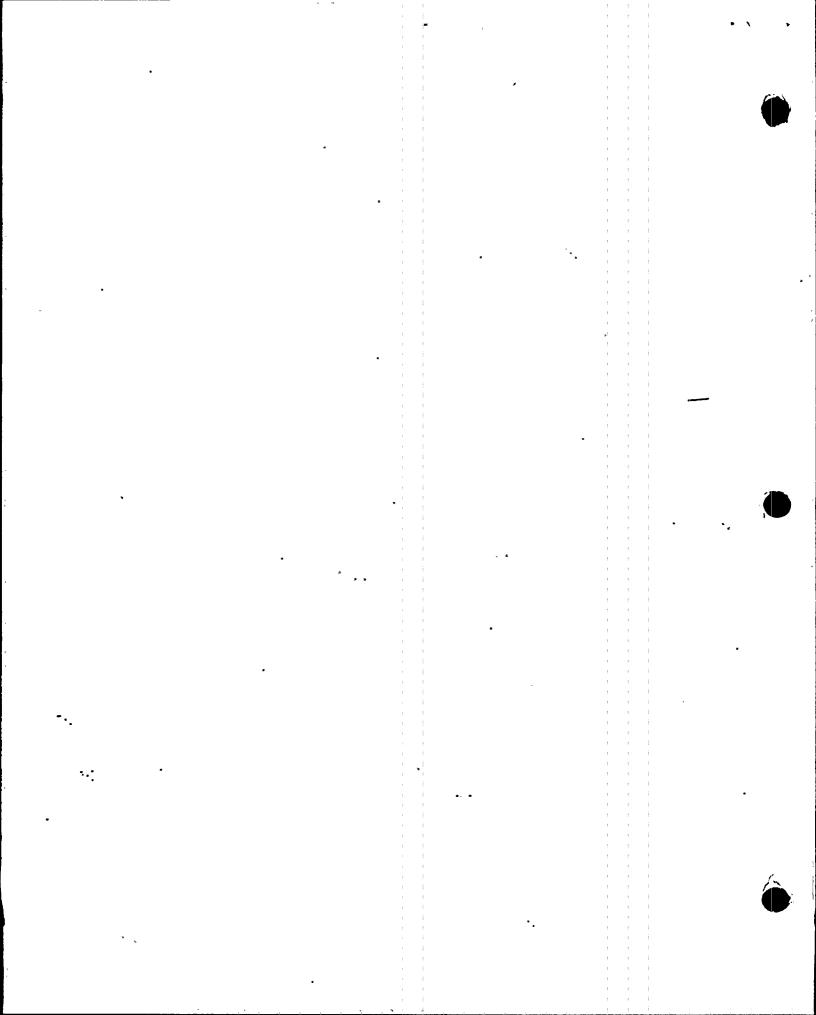
#### **ASSUMPTIONS**

- THRUST VS STEM POSITION IS LINEAR
- STEM SPEED IS CONSTANT
- ALL THERMAL GROWTH RESULTS IN WEDGING
- $\alpha_S$  &  $\alpha_B$  ARE REASONABLE
- STEM OUTSIDE OF BODY IS COLD
- YOKE SHRINKAGE CANCELS OUT THAT OF EXTERNAL STEM
- ALL THERMAL FORCE ADDED TO UNSEATING



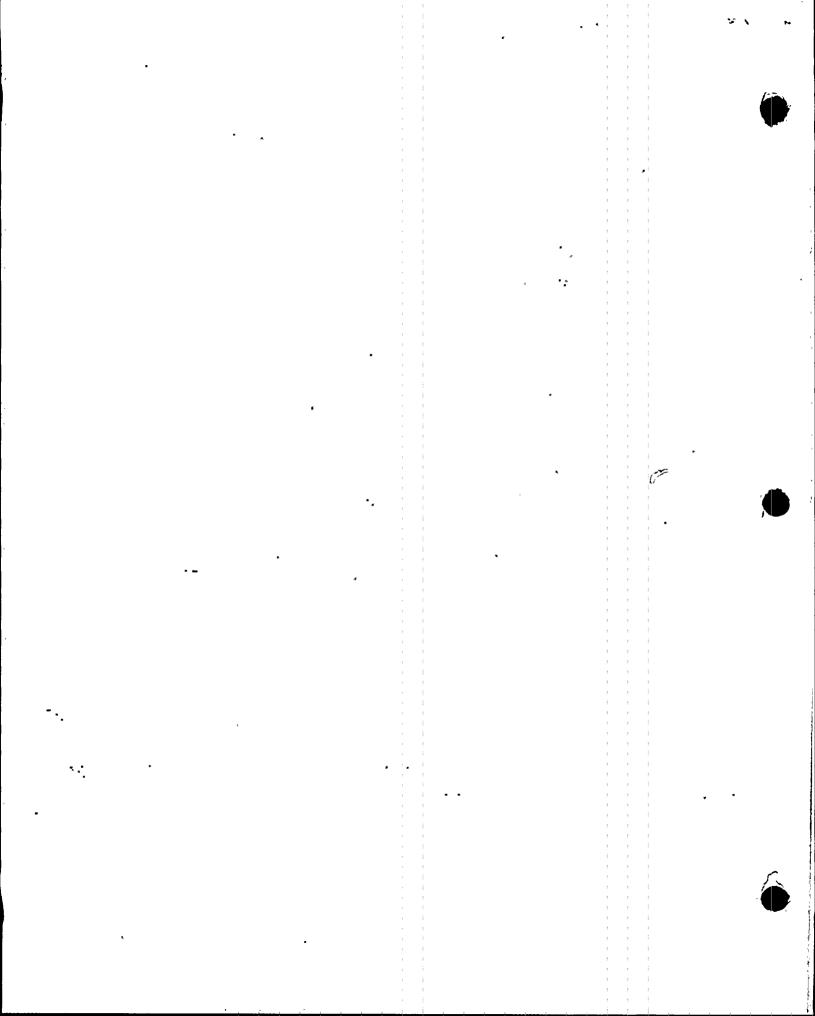
#### **PHILOSOPHY**

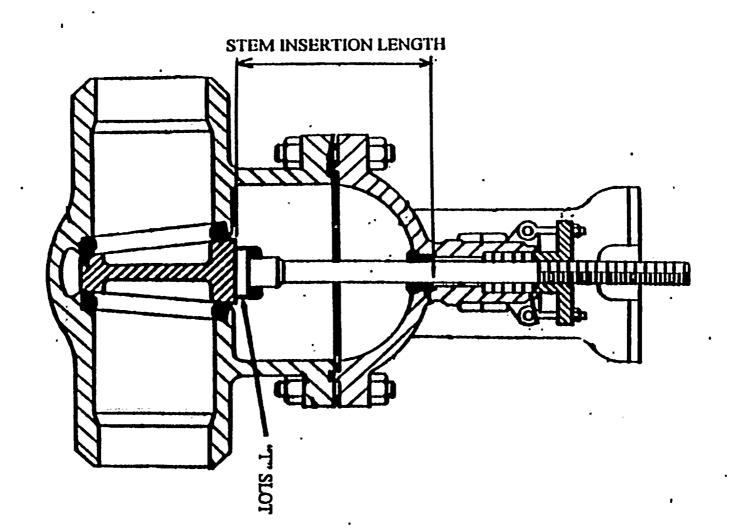
- ASSURE SAFE PLANT OPERATION
- USE BEST AVAILABLE INFORMATION
- CONSERVATISM FOR UNCERTAINTY

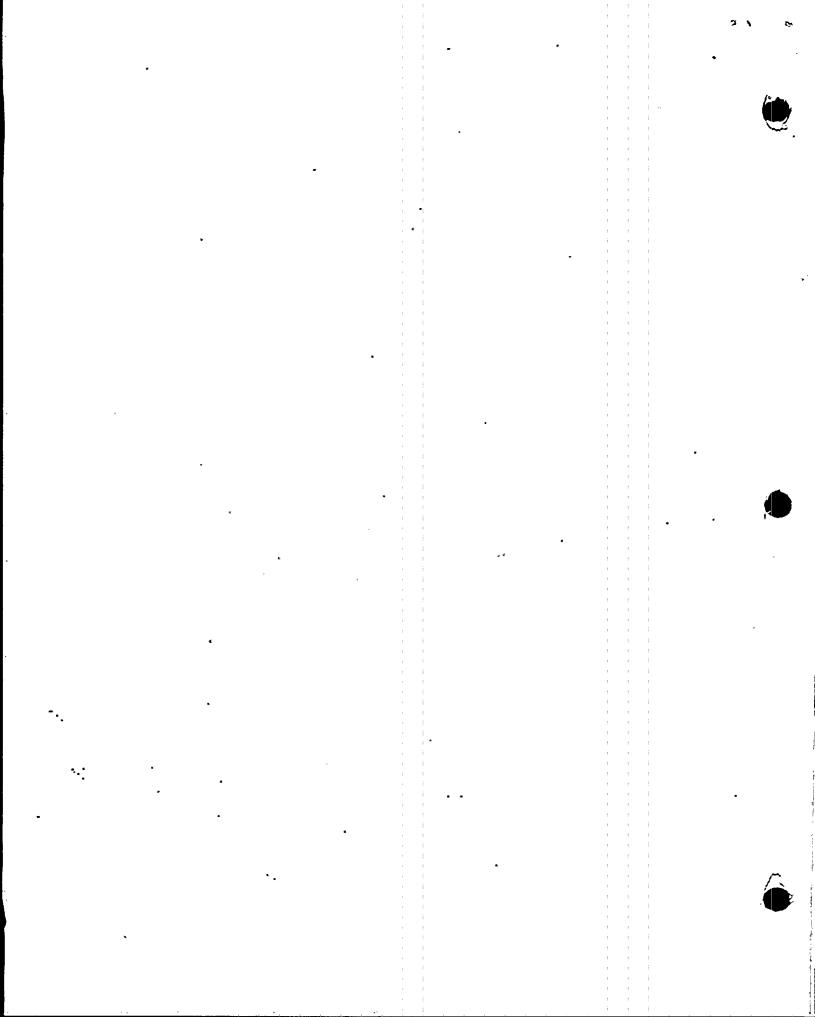


### DETERMINE THERMAL GROWTH δL

VALVE CONDITION	THERMAL MOVEMENT	δτ.
HOT OPEN	NONE	0
CLOSED	STEM ELONGATION	$L_s \alpha_s \Delta T_1$
CYCLE VALVE	NEGATE STEM ELONGATION	- $L_s \alpha_s \Delta T_1$
COOLDOWN	STEM CONTRACTION BODY CONTRACTION	$L_{\rm s} (\alpha_{\rm B} - \alpha_{\rm S}) \Delta T_2$







## THERMAL BINDING

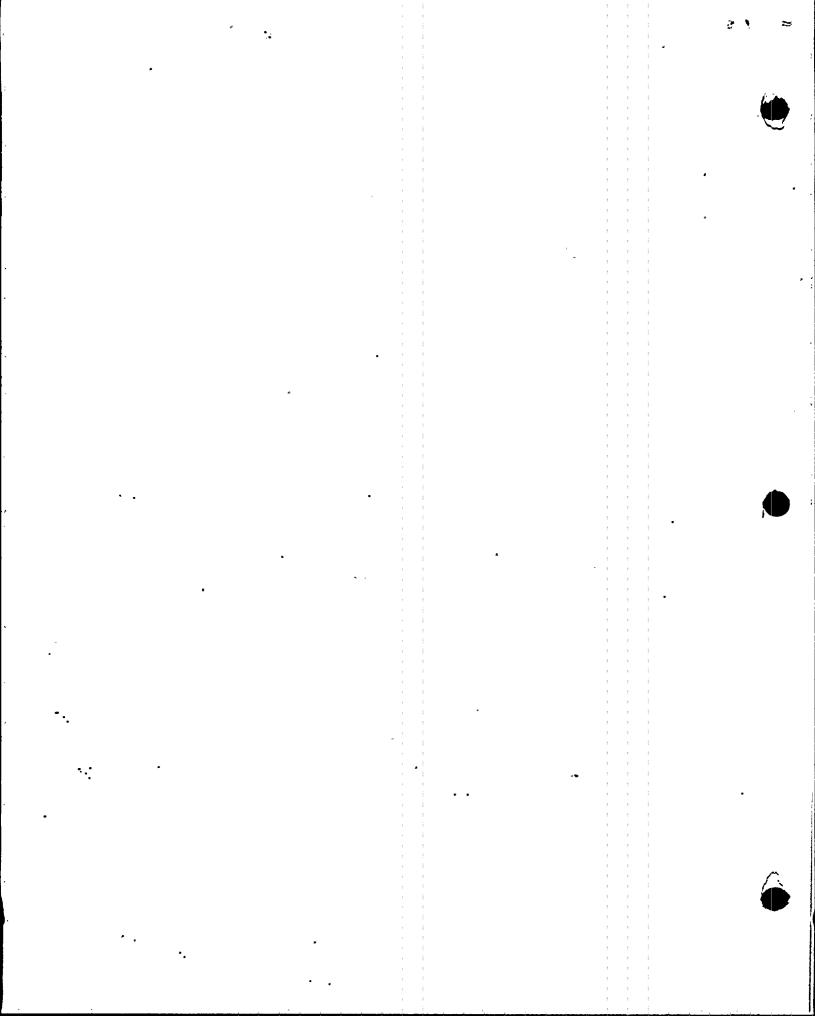
- SPECIFIC THERMAL BINDING EXAMPLE
- CAUSE: DIFFERENTIAL EXPANSION/ CONTRACTION
- BINDING MECHANISMS: DISK/BODY

STEM/BODY

• THERMAL COEFFICIENTS:  $\alpha_{BODY} = \alpha_{DISK}$ 

 $\alpha_{BODY} > \alpha_{STEM}$ 

- VALVE POSITION: CLOSED
- SAFETY FUNCTION: CLOSE



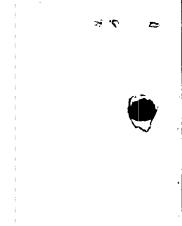
## **ASSUMPTIONS**

- •PL / TB FORCES ADDITIVE TO STATIC UNSEATING
- •MOV CAPABILITY BASED UPON G.L. 89-10 CRITERIA
- PL/TB MOV SCENARIO USED TO DEVELOP G.L.

89-10 ALLOWABLE THRUST

**CONSIDER - TEMPERATURE** 

- PRESSURE
- VOLTAGE
- TIMELINE



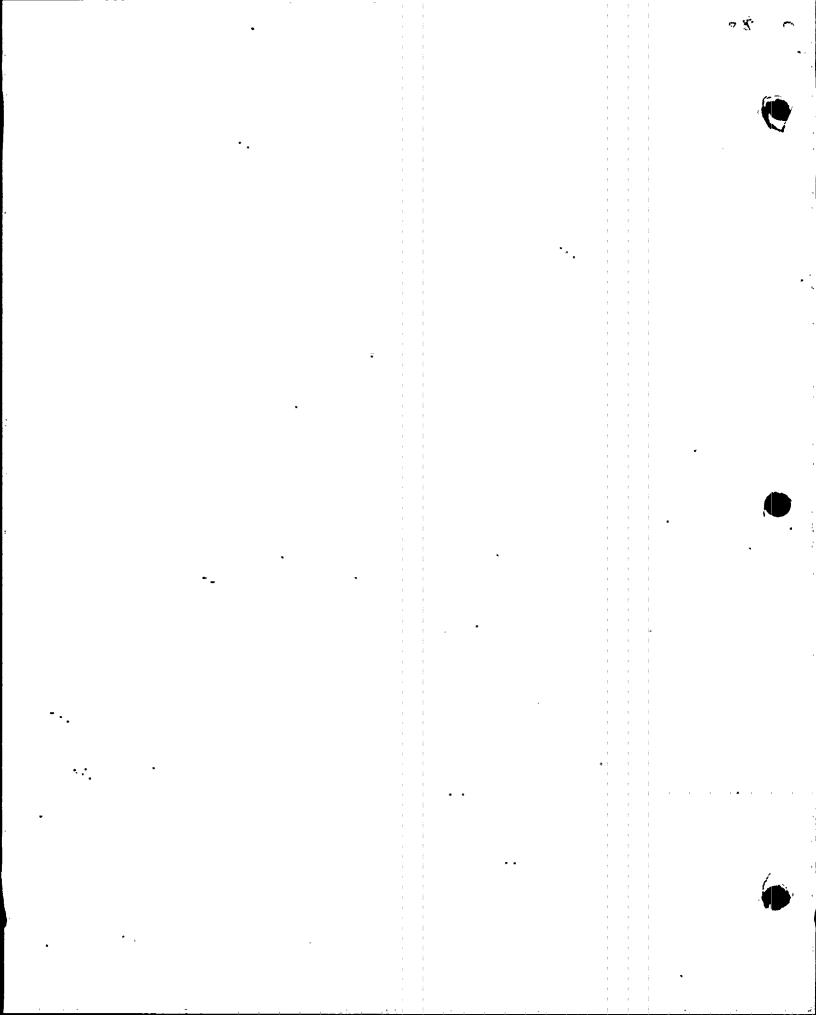
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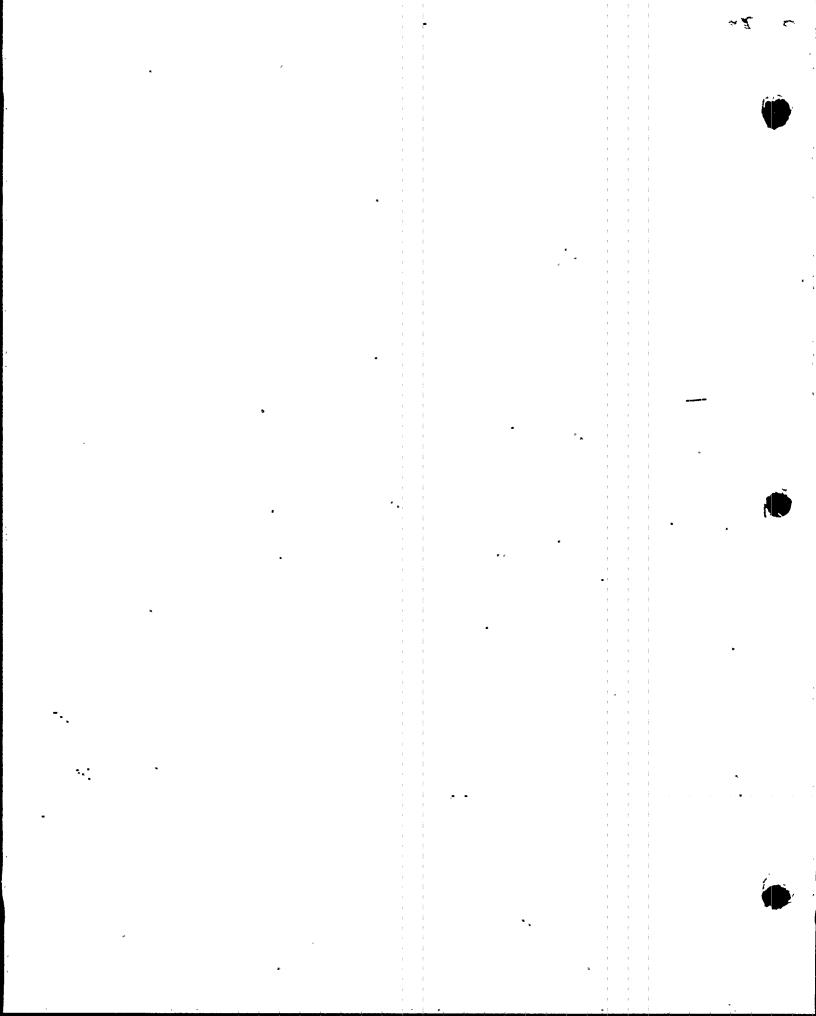
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# PP&L EXPERIENCE

VALVE	INITIATOR	ACTION	PREVENTS
RHR F015	84-07	MODIFICATION	PL
CS F005	84-07	MODIFICATION	PL
HPCI F002	INPO OE 5906	PROCED. REV.	TIPL .
RCIC F007	INPO OE 5906	PROCED. REV.	TIPL
RHR F003	SSES TB	PROCED. REV.	TB
FW 0603	SSES TIPL	MODIFICATION	TIPL



# GENERIC LETTER 95-07 PRESSURE LOCKING/THERMAL BINDING ANALYTICAL METHODOLOGY CONSIDERATIONS



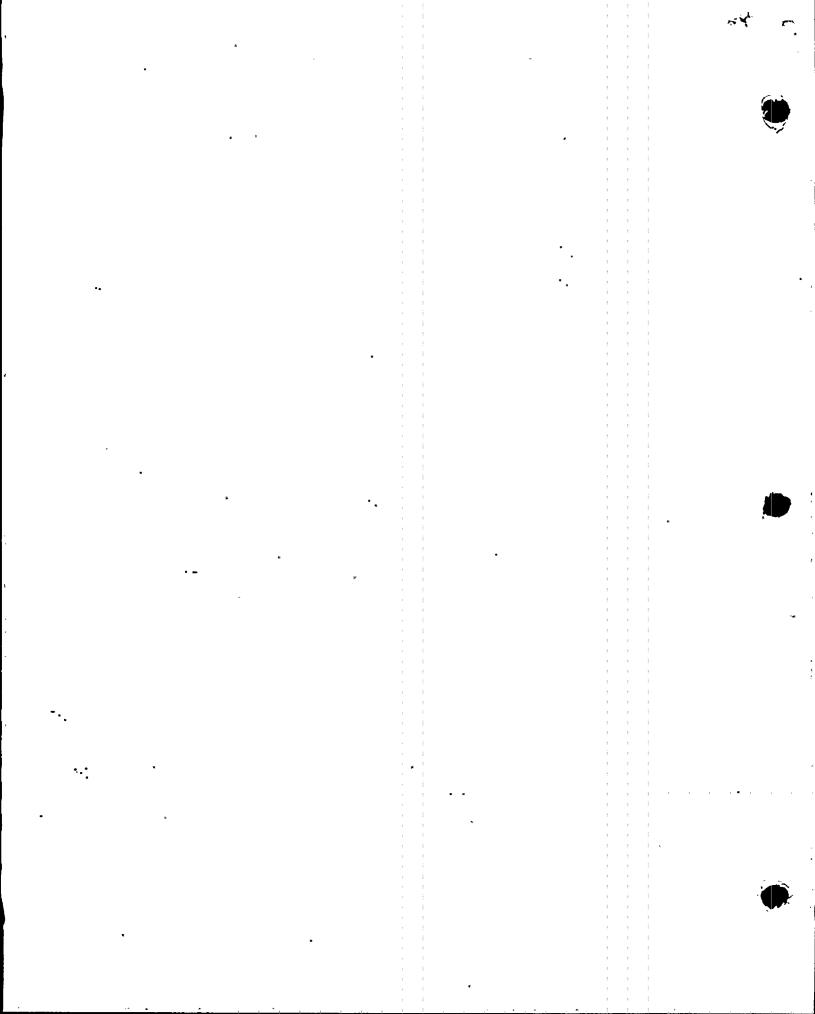
# CONVERT THERMAL GROWTH TO FORCE

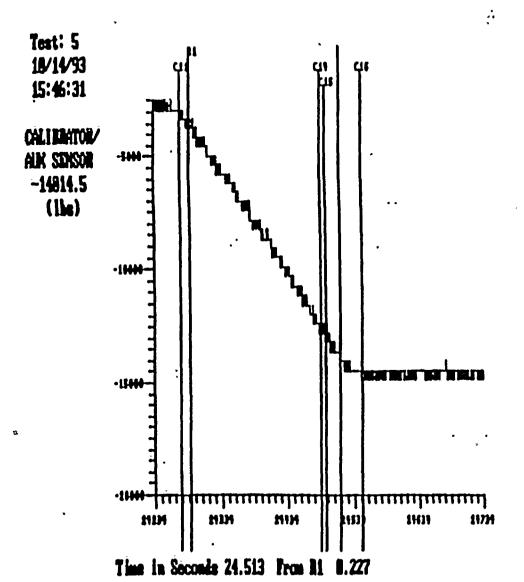
 $\Delta THRUST = \Delta THRUST/SEC$   $\delta L$   $V_{ST}$ 

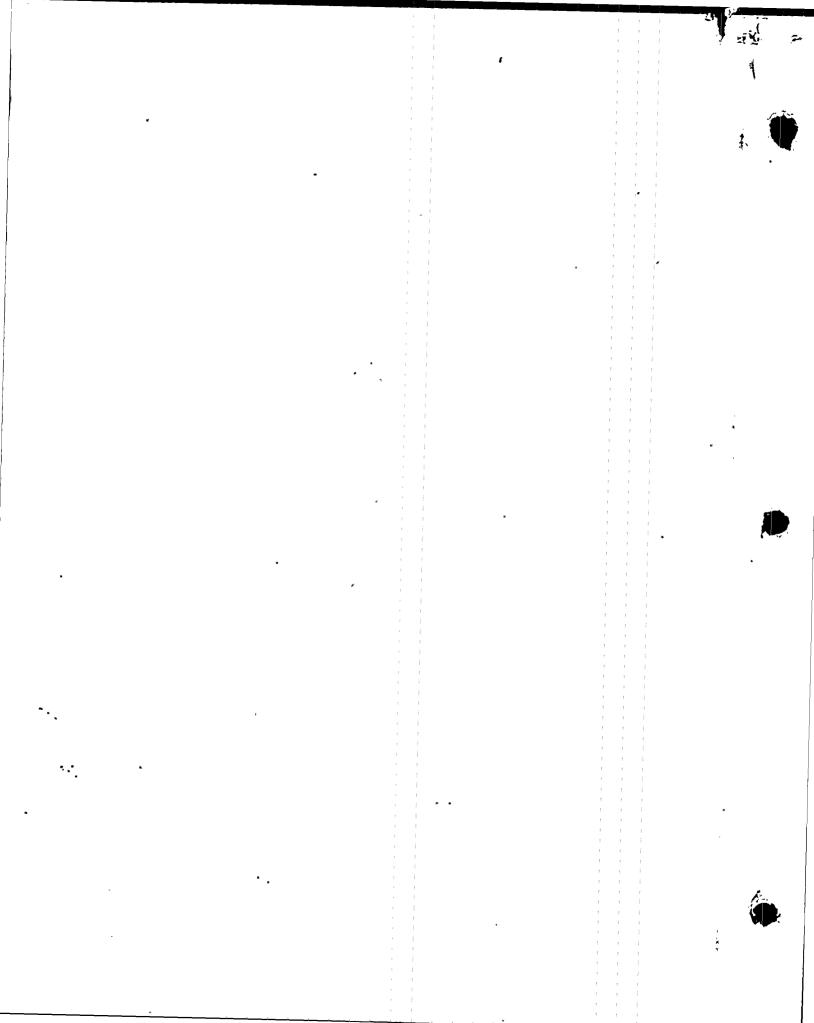
ΔTHRUST/SEC: FROM VOTES

 $V_{ST} = (MOTOR RPM) (STEM LEAD) (1/60)/OAR$ 

 $\Delta$ THRUST = [ $\Delta$ THRUST/SEC]  $\delta$ L  $V_{ST}$ 

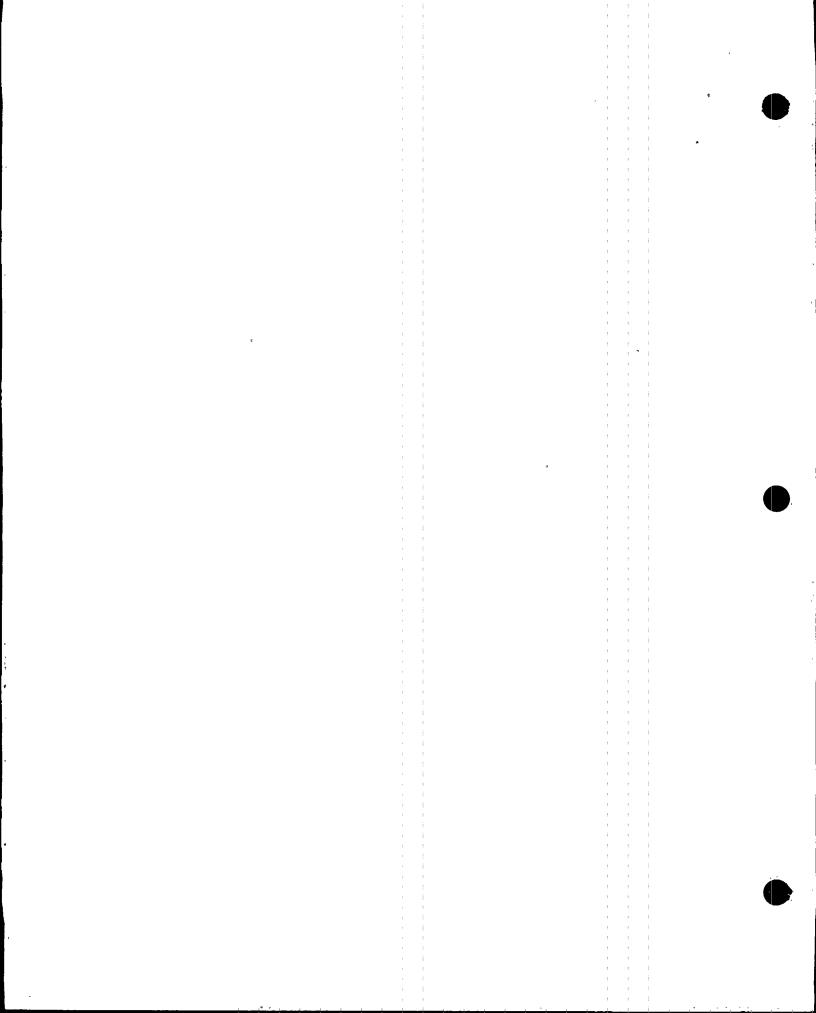






### TURKEY POINT UNIT 3 1995 REFUELING OUTAGE

Summary of Inservice Inspection Examinations.



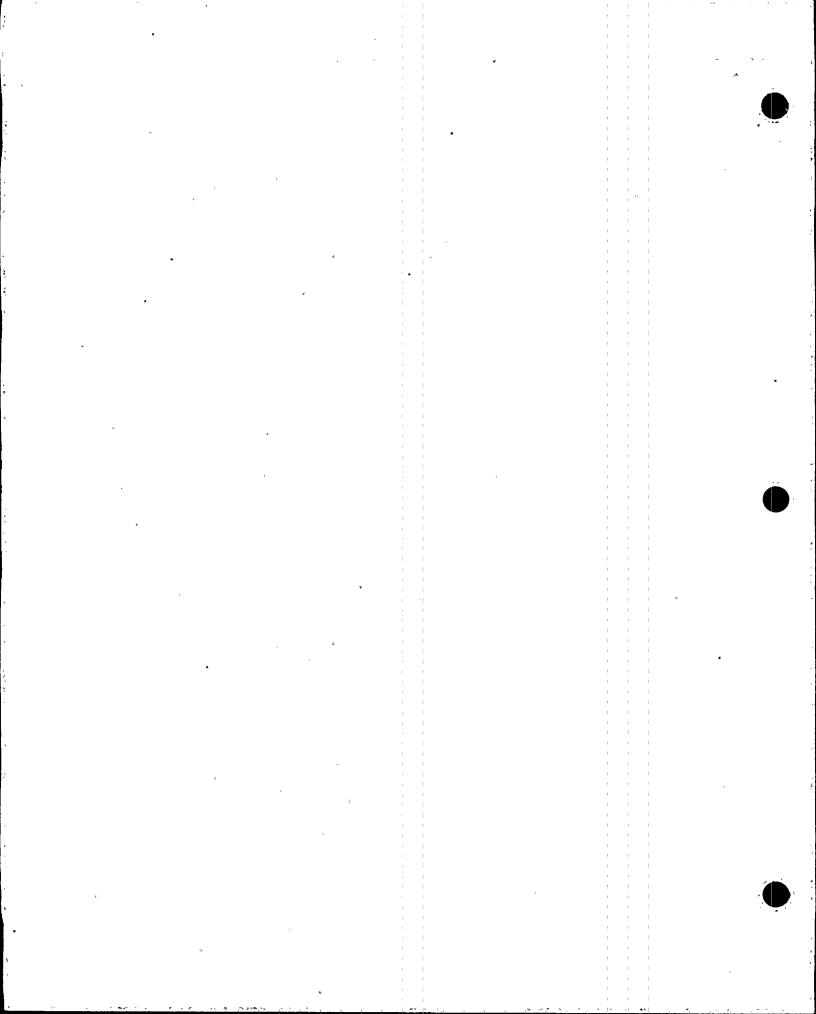
TURKEY POINT NUCLEAR PLANT UNIT 3
INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

PAGE:

1

ALACTOR PRESSURE VESSEL

			•		N	I	0	
ZONE NU	MBER: 3-001	ASME			0	N (	T	
		SEC. XI			R	SE	E H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		Ε	1 (	) E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C	G I	1 R	**CALIBRATION BLOCK**
	***************************************		•••••		•	• •	-	
	REF. DWG. NO. 5613-M-4001			<i>y</i> ,			ź	
014515	3-CH-S-19 THRU 40	B-G-1	MT		х			9/16/95 - HT COMPLETE, 9/18/95 - UT
	RPV STUDS	B6.30		NDE 5.7-1				COMPLETE, EXAMINED STUDS 19 THRU 40
			UT 50	NDE 5.7-1	X		. <b>-</b>	•
								**UT-11**
		4		W07 10 10 4				0.447.05 NT 20101.5T5 0.440.05 NT
1014535:		B-G-1		NDE 5.10-1	X	•	-	9/16/95 - HT COMPLETE, 9/18/95 - UT
	RPV CLOSURE HEAD NUTS	B6.10	UT ·45	NUE 5.10-1	X	•	•	COMPLETE, EXAMINED NUTS 19 THRU 40
			•					**UT-25**
								1
014555	3-CH-LW-19 THRU 40	B-G-1	VT-1	NDE 4.1-7	X		-	9/14/95 - VT-1 COMPLETE, EXAMINED LARGE
	RPV LARGE WASHERS	B6.50						WASHERS 19 THRU 40
								. 1
575	3-CH-SW-19 THRU 40	'B-G-1	VT-1	NDE 4.1-6	x			9/14/95 - VT-1 COMPLETE, EXAMINED SMALL
	RPV SMALL WASHERS	B6.50	· · ·	•	••			WASHERS 19 THRU-40



TURKEY POINT NUCLEAR PLANT UNIT 3
INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERICO, SECOND OUTAGE (95RF)

CLASS 1 CAEPOBL STATUS COMPONENTS

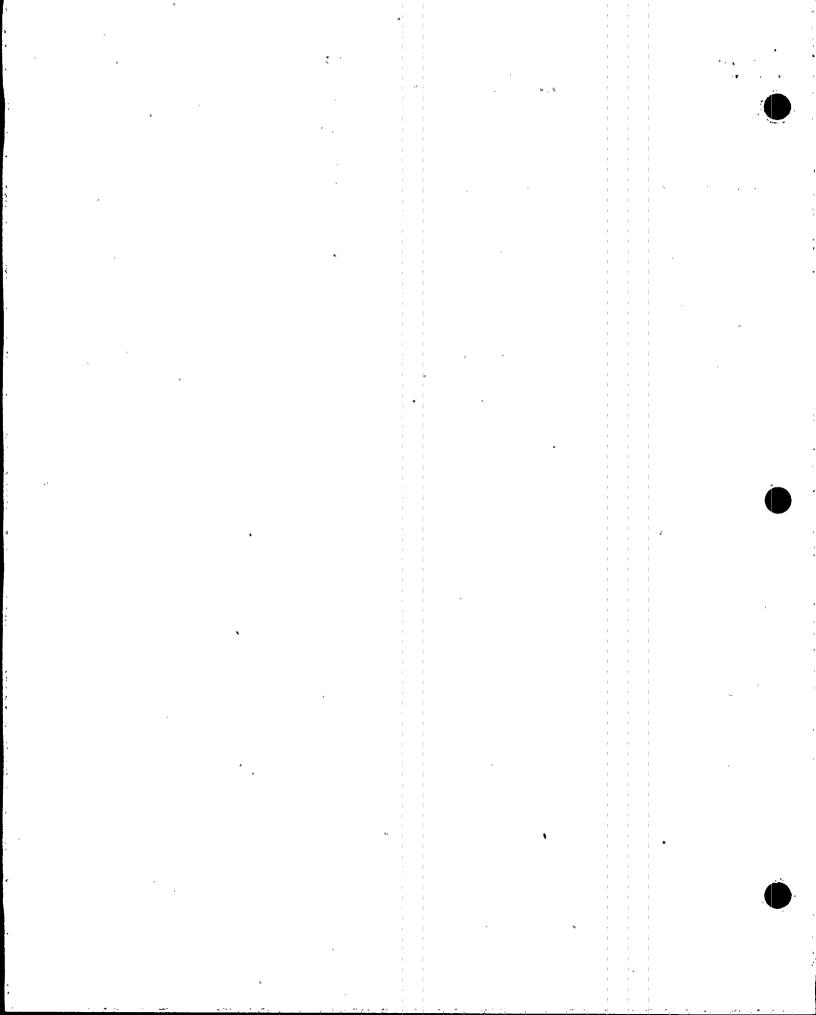
AM GENERATOR A PRIMARY\_SIDE

N I O ZONE' NUMBER: 3-003 ASME ONGAT SEC. XI RSEH SUMMARY EXAMINATION AREA CATGY EXAM E I O E REMARKS NUMBER IDENTIFICATION. ITEM NO METHOD **PROCEDURE** C G H R \*\*CALIBRATION BLOCK\*\* REF. DWG. NO. 5613-M-4003 NDE 4.1-13 X - - - 9/18/95 - VT-1 COMPLETE, 16 BOLTS 039700 3-SGA-I BOLTING B-G-2 VT-1 STEAM GENERATOR INLET MANWAY B7.30 CR 95-761 EXAMINED, EXAMINED AT PLANT REQUEST PER CONDITION REPORT 95-761 BOLTING VT-1 NDE 4.1-14 X - - X 9/18/95 - VT-1 COMPLETE, 16 BOLTS 039800 3-SGA-O BOLTING B-G-2 STEAM GENERATOR OUTLET MANWAY 87.30 95-761 EXAMINED, 1 BOLT REJECTED WITH 3. CR VT-1 NDE 4.1-15 X - - - FLATTENED THREADS, BOLT WAS REPLACED, BOLTING **EXAMINED AT PLANT REQUEST PER CONDITION** 

REPORT 95-761

PAGE:

2



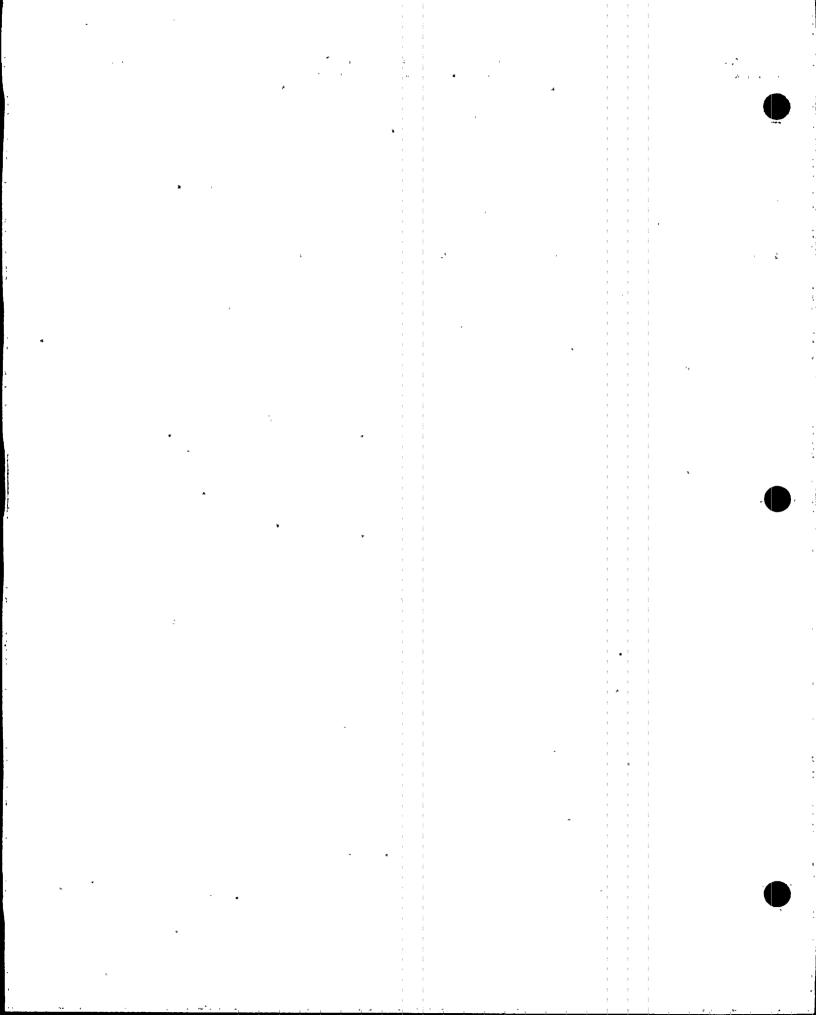
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DATE: 12/15/95 REVISION: 0

INSERVICE INSPECTION RESULTS FOR THE THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

ΔM	GENERATOR	R	PRIMARY	SIDE	
<u> </u>	GENERATOR	<u></u>	FRIMANI	3100	

SUMMARY	MBER: 3-004 EXAMINATION AREA IDENTIFICATION	ASME SEC. XI CATGY ITEM NO	EXAM METHOD	PROCEDURE		REMARKS: ***CALIBRATION BLOCK**
040500	REF. DWG. NO. 5613-M-4004 3-SGB-I BOLTING STEAM GENERATOR INLET MANWAY BOLTING	B-G-2 B7.30	VT-1 CR ·VT-1	NDE 4.1-16 95-761 NDE 4.1-18	x	9/18/95 - VT-1 COMPLETE, 16 BOLTS EXAMINED, 2 BOLTS REJECTED, ONE WITH MISSING THREAD, ONE WITH FLATTENED THREAD CROWNS, BOTH BOLTS REPLACED, EXAMINED AT PLANT REQUEST PER CONDITION REPORT 95-761
040600	3-SGB-O BOLTING STEAM GENERTOR OUTLET MANWAY BOLTING	B-G-2 B7.30	VT-1 CR VT-1	NDE 4.1-17 95-761 NDE 4.1-18		9/18/95 - VT-1 COMPLETE, EXAMINED 16 BOLTS, 2 BOLTS REJECTED, FLATTENED THREADS, BOLTS WERE REPLACED, EXAMINED AT PLANT REQUEST PER CONDITION REPORT 95-761



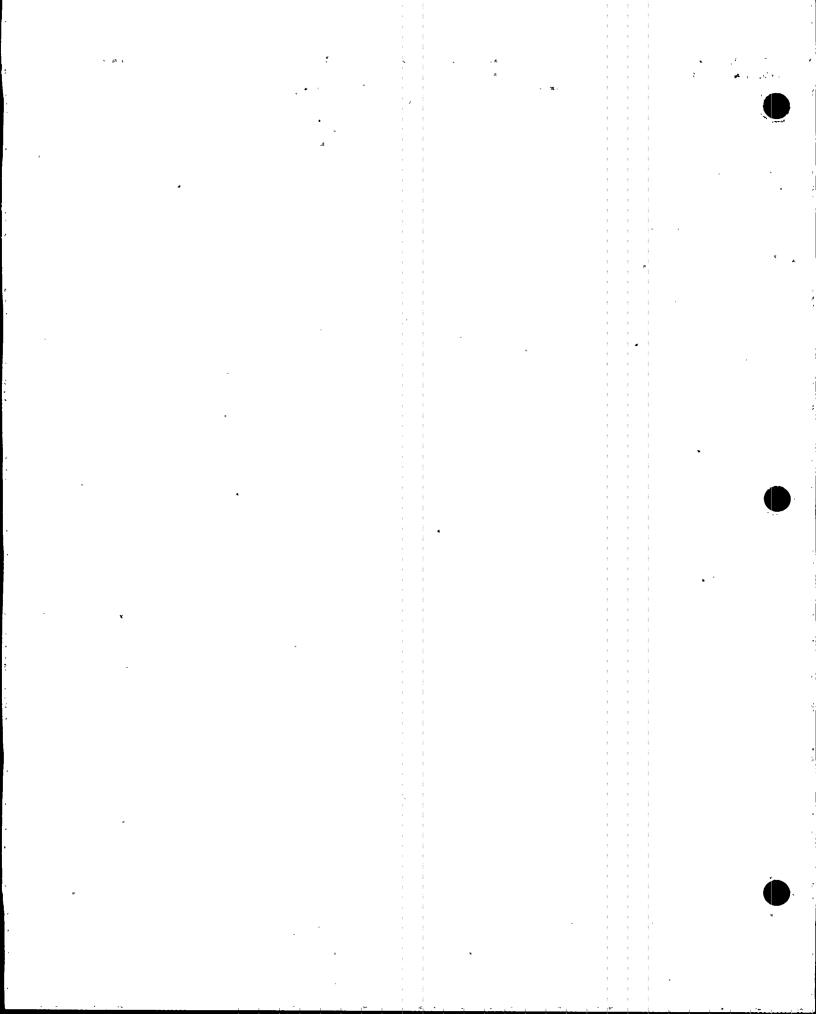
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# TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS: FOR THE THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF) CLASS 1 CAEPOBL STATUS COMPONENTS

AM GENERATOR C PRIMARY SIDE

SUMMARY	MBER: 3-005  EXAMINATION AREA IDENTIFICATION	ASHE SEC. XI CATGY ITEM NO	EXAM	PROCEDURE	O N°G T R S E H E I O E C G M R	REMARKS **CALIBRATION BLOCK**
041300	REF. DWG. NO. 5613-M-4005  3-SGC-I BOLTING STEAM GENERATOR INLET MANWAY BOLTING	B-G-2 B7.30	VT-1 CR VT-1 VT-1 HT	NDE 4.1-10 95-761 NDE 4.1-11 NDE 4.1-12 NDE 2.2-2	x	9/18/95 - VT-1 COMPLETE, 28 BOLTS EXAMINED FOR BASELINE, 4 BOLTS EXAMINED WITH MT, EXAMINED AT PLANT REQUEST PER CONDITION REPORT 95-761
041400	3-SGC-O BOLTING STEAM GENERATOR OUTLET MANWAY BOLTING	B-G-2 B7.30	VT-1: CR VT-1 VT-1 HT.	NDE 4.1-10 95-761 NDE 4.1-11 NDE 4.1-12 NDE 2.2-2	x	9/18/95 - VT-1 COMPLETE, 28 BOLTS EXAMINED FOR BASELINE, 4 BOLTS MT, EXAMINED AT PLANT REQUEST PER CONDITION REPORT 95-761



DATE: 12/15/95 REVISION: 0

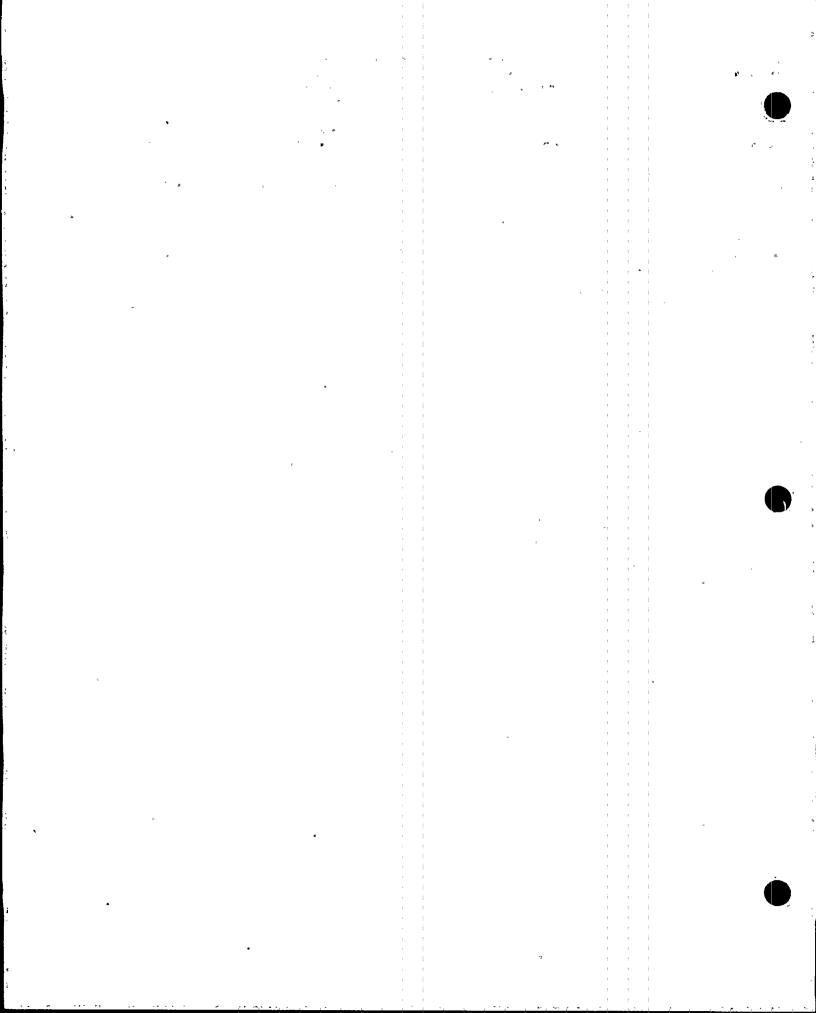
INSERVICE INSPECTION RESULTS FOR THE

SSURIZER

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF) CLASS 1 CAEPOBL STATUS COMPONENTS

SSUR	IZER					
	7 00/	4045			N'I O	
ZONE · NUI	4BER: 3-006	ASME			ONGT	м.
01 W W 4 D V	SWALLTING AREA	SEC. XI	CVAU		RSEH	DEMANAG
	EXAMINATION AREA	CATGY	EXAM	PROGERUPE	EIOE	·
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	CGMK	**CALIBRATION BLOCK**
,	,					
	REF. DWG. NO. 5613-M-4002					
				No. 11 7 41	.,	0/40/05 117 7 001151 575
042000	3-PRZ-SUPPORT	F-A	VT-3	NDE 4.3-14	.х	9/18/95 - VT-3 COMPLETE
	PRESSURIZER VESSEL SUPPORT	F1.40V				
0/0000	7 044 0			NDE 5.1-3	<b>v</b>	9/17/95 - UT COMPLETE
042800	3-PLW-2	B-B	UT 0 UT 45			9/1//93 - 01 COMPLETE
	UPPER SHELL LONG SEAM			NDE 5.1-3	X	
		•	UT 60'	NDE 5.1-3	X	
			UT 70	NDE 5.1-3	x	****
						**UT-6**
						• ·• · · · · · · · · · · · · · · · · ·
042900	3-PCW-7	B-B	UT O	NDE 5.1-3		9/17/95 - UT COMPLETE, ACCEPTABLE
	UPPER SHELL TO HEAD	B2.11	UT <sup>.</sup> 45	NDE 5.1-3		INCLUSIONS
			UT 60	NDE 5.1-3.	X	
			UT 70	NDE 5.1-3	x	1
						**UT-8** `
						4
043000	'RV-03-551A-IR	B-D	UT, 60	NDE 5.13-2	x	9/17/95 - UT COMPLETE
	SAFETY NOZZLE INNER RADIUS	B3.120				
	SECTION					
						**UT-8**
				*		
043100.	RV-03-551B-IR	B-D	UT 60	NDE 5.13-2	x	9/17/95 - UT COMPLETE
	SAFETY NOZZLE INNER RADIUS	B3.120			-	•
	SECTION					ı
	02011011:					
					•	**UT-8**
		,				
.072200	RV-03-551C-IR	B-D	UT` 60	NDE 5.13-2	V	9/17/95 - UT COMPLETE
043200			01 00	UNE 7.13-E	^ ·	7/11/73 - OI CONFEETE
	SAFETY NOZZLE INNER RADIUS	B3.120				
	SECTION					

\*\*UT-8\*\*

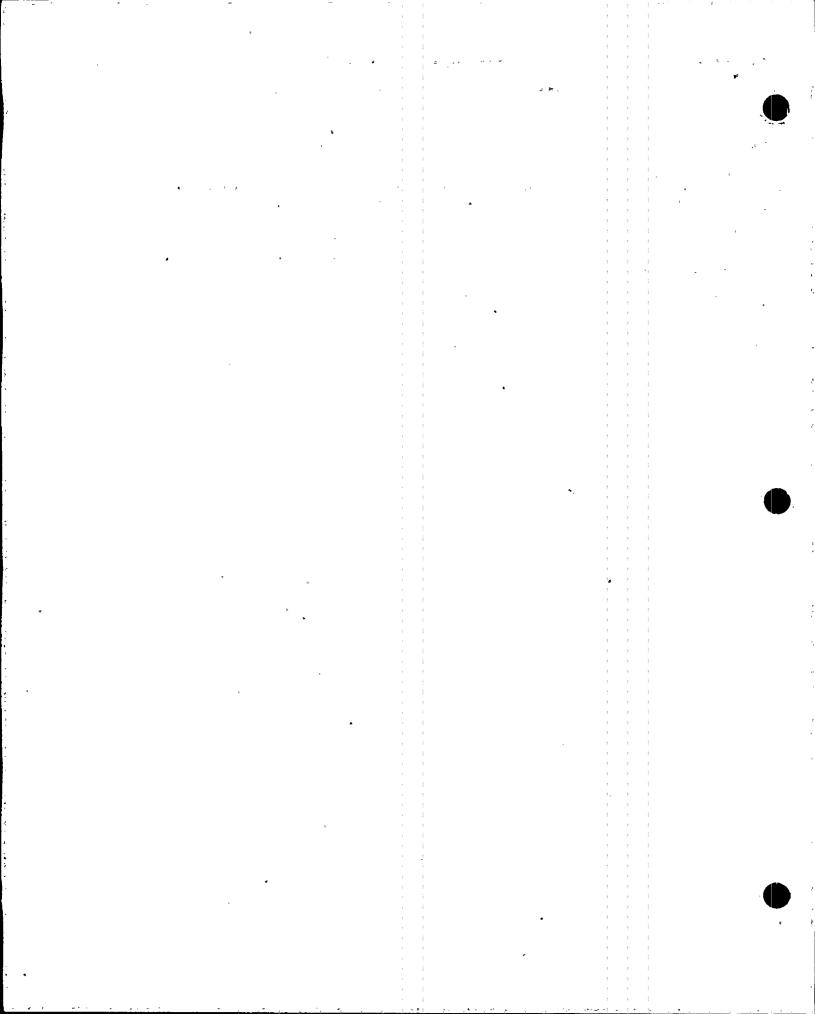


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DATE: 12/15/95 REVISION: 0 TURKEY POINT NUCLEAR PLANT UNIT. 3
INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

SSURIZER

<u></u>	,				N I O	
ZONE N	UMBER: 3-006	ASME		1	O.N.G.T	•
		SEC. XI			R S'E H	6
SUMMAR	Y EXAMINATION AREA	CATGY	EXAM		EIOE	
NUMBER	IDENTIFICATION .	ITEM NO	METHOD	PROCEDURE	CGMR	**CALIBRATION BLOCK**
		•••••		***************************************		
	REF. DWG. NO. 5613-M-4002	•	•		-	
043300	RN-03-1-IR RELIEF NOZZLE INNER RADIUS SECTION	B-D B3.120	UT 60	NDE 5.13-2	x	9/17/95 - UT COMPLETE
	,				,	**UT-8**
043400	SP-03-1-IR	·B-D	UT 30	NDE 5.13-1	Y	9/17/95 - UT COMPLETE, LIMITED
043400	SPRAY NOZZLE INNER RADIUS SECTION	вз.120	UT 60	NDE 5.13-1	x	•
043500	03-PZR-1 THRU 16 PRESSURIZER MANWAY BOLTING	B-G-2 B7.20	VT-1	NDE 4.1-8	x	9/18/95 - VT-1 COMPLETE



DATE: 12/15/95 REVISION: 0

TURKEY POINT NUCLEAR PLANT UNIT 3. INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)

CLASS 1 CAEPOBL STATUS COMPONENTS

CTOR COOLANT SYSTEM LOOP A COLD LEG

10" BRANCH CONNECTION

NI O ONGT ZONE NUMBER: 3-009 ASME SEC. XI R S E H CATGY EXAM E I O E REMARKS SUMMARY EXAMINATION AREA ITEM NO METHOD PROCEDURE C G H R \*\*CALIBRATION BLOCK\*\* NUMBER IDENTIFICATION REF. DWG. NO. 5613-P-766-S SH. 1 NDE 3.3-21 X - - - 9/20/95 - PT COMPLETE, 9/21/95 - UT
NDE 5.4-16 - - X - COMPLETE, INSIDE SURFACE GEOMETRY, X - - - 9/20/95 - PT COMPLETE, 9/21/95 - UT 045700 27.5"-RCS-1307-2 B-J PT

NDE 5.4-16

UT 45

UT 60

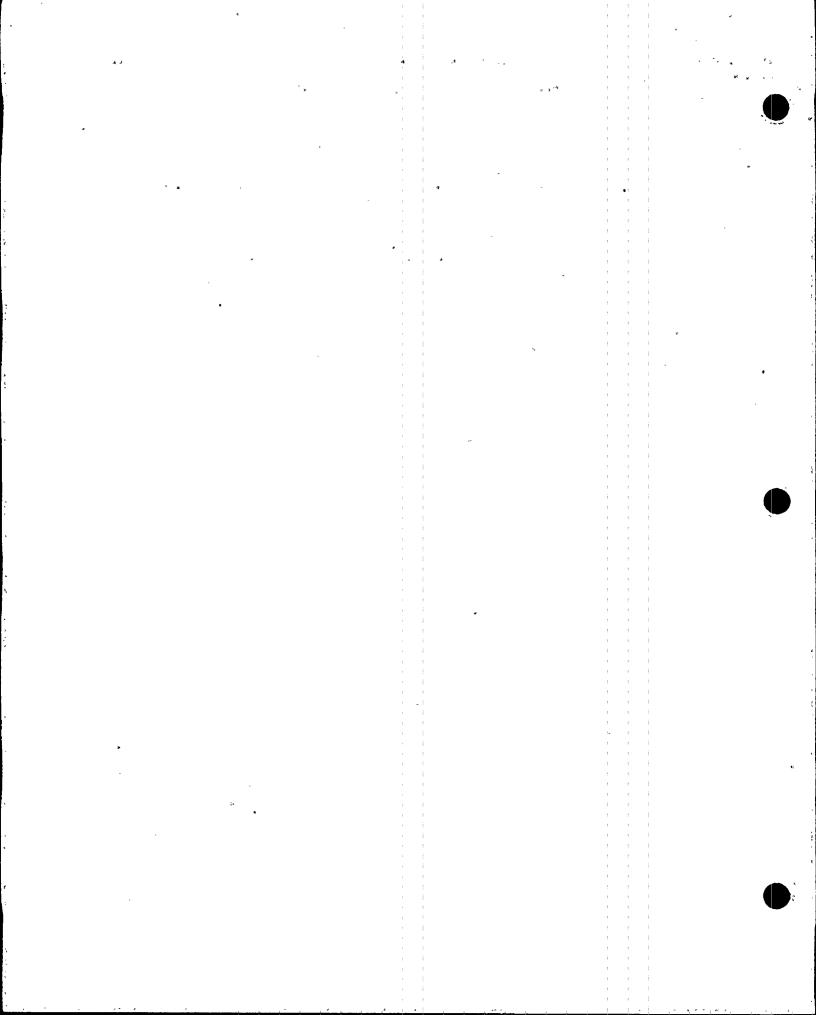
B9.31

- - X - LIMITED EXAMINATION DUE TO BRANCH CONNECTION CONFIGURATION

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\*\*502979-PI-61\*\*



DATE: 12/15/95 REVISION: 0

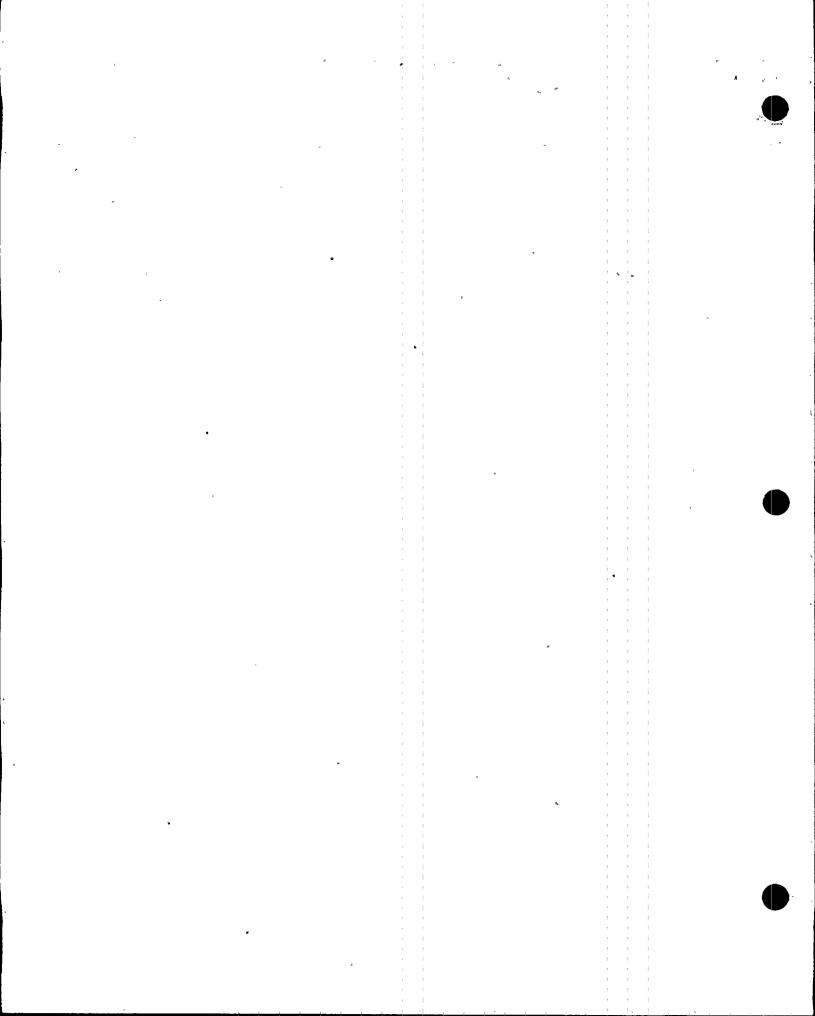
TURKEY POINT NUCLEAR PLANT UNIT 3
INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

PAGE:

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ACTOR COOLANT SYSTEM LOOP B HOT LEG

NI O ZONE NUMBER: 3-011 ASME O N'G T SEC. XI RSEH SUMMARY EXAMINATION AREA CATGY EXAM E I O E REMARKS NUMBER - IDENTIFICATION ITEM NO METHOD PROCEDURE C G M R \*\*CALIBRATION BLOCK\*\* REF. DWG. NO. 5613-P-766-S SH. 2 047500 29"-RCS-1305-BC3 B-J' UT 45 NDE 5.4-14 - - X - 9/24/95 - UT COMPLETE, INNER RADIUS 12" BRANCH CONNECTION B9.31 UT 60 NDE 5.4-14 - - X - GEONETRY, SURFACE EXAMINATION PERFORMED DURING THE PREVIOUS OUTAGE, LIMITED EXAMINATION DUE TO BRANCH CONNECTION CONFIGURATION \*\*BV-12-2.91-SS\*\*



DATE: 12/15/95 REVISION: 0

TURKEY POINT NUCLEAR PLANT UNIT 3
INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)

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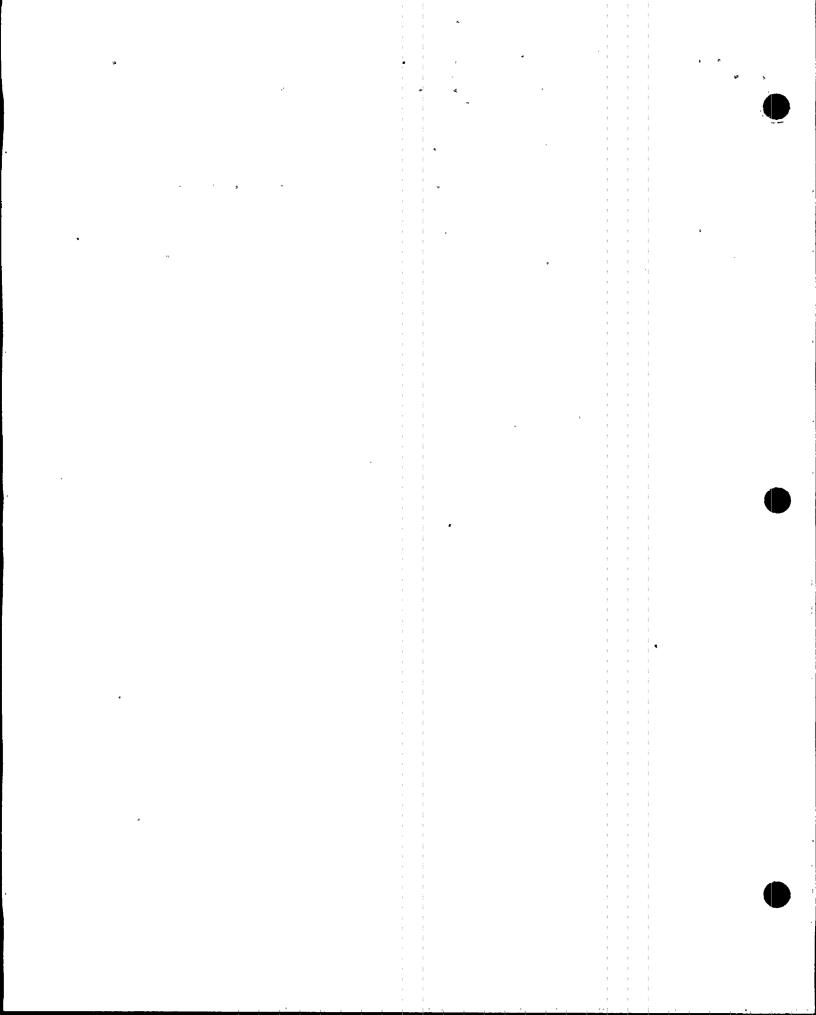
CONFIGURATION
\*\*502979-PI-61\*\*

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CLASS 1 CAEPOBL STATUS COMPONENTS

TACTOR COOLANT SYSTEM LOOP B COLD LEG

NI O ZONE NUMBER: 3-012 ASME O.N.G.T SEC. XI RSEH SUMMARY EXAMINATION AREA CATGY EXAM E I O E REMARKS ITEM NO. METHOD PROCEDURE C G M R \*\*CALIBRATION BLOCK\*\* NUMBER IDENTIFICATION REF. DWG. NO. 5613-P-766-S SH. 2 X - - - 9/24/95 - UT COMPLETE, INNER RADIUS 048400 27.5"-RCS-1306-4 B-J UT 45 NDE 5.4-15 10" BRANCH CONNECTION B9.31 UT 60 NDE 5.4-15 - - X' - GEOMETRY, SURFACE EXAMINATION PERFORMED DURING THE PREVIOUS OUTAGE, LIMITED EXAMINATION DUE TO BRANCH CONNECTION

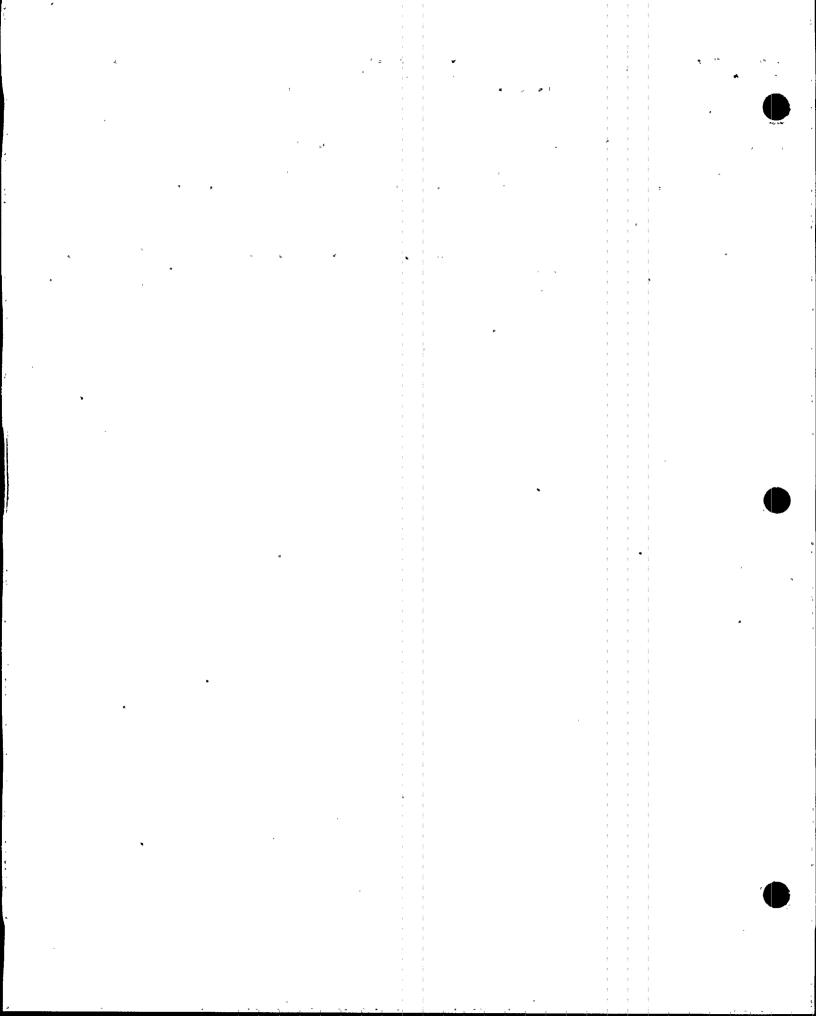


DATE: 12/15/95 REVISION: 0 TURKEY POINT NUCLEAR PLANT UNIT 3
INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

PAGE:

CTOR COOLANT SYSTEM LOOP C HOT LEG

NAME OF THE PROPERTY OF THE PR			NI O	
ZONE NUMBER: 3-014	ASME		ONGT	
	SEC. XI		. R'SEH	,
SUMMARY EXAMINATION AREA	CATGY EXA	М	EIOE	REMARKS
NUMBER IDENTIFICATION	ITEM NO MET	HOD PROCEDURE	CGMR	**CALIBRATION BLOCK**
REF. DWG. NO. 5613-P-766-S SH 049900 29"-RCS-1308-BC-1 14" BRANCH CONNECTION	8-J PT B9.31 UT		X -	9/24/95 - PT AND UT COMPLETE, RTD PLUG IN EXAMINATION AREA, INSIDE SURFACE AND INNER RADIUS GEOMETRY, LIMITED EXAMINATION DUE TO BRANCH CONNECTION CONFIGURATION **BV-12-2.91-SS**



# TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)

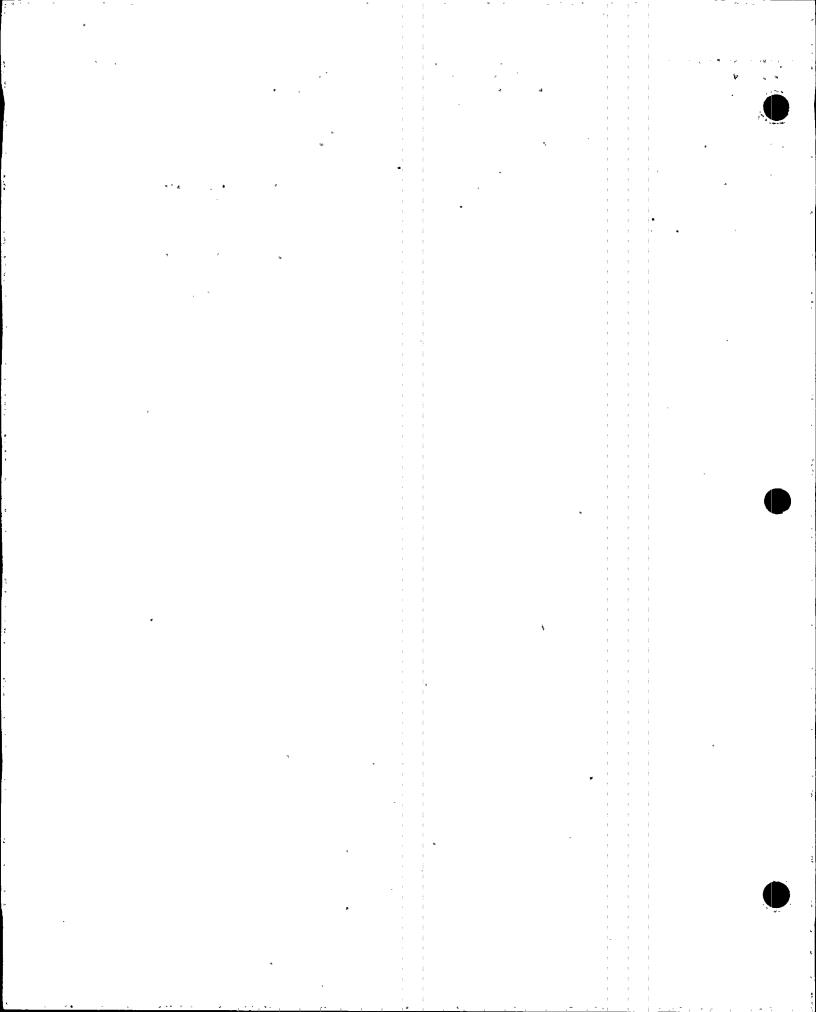
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CLASS 1 CAEPOBL STATUS COMPONENTS

CTOP	COOL ANT	CVCTEM	I MODZC	COLD_LEG	
	COOLANI	SISIEM	LUUP_C	COLO_LEG	

				NI O	
ZONE NUMBER: 3-015	ASME			ONGT	
	SEC. XI			RSEH.	
SUMMARY EXAMINATION AREA	CATGY	EXAM		EIOE	REMARKS
NUMBER IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	CGMR	**CALIBRATION BLOCK**
		********		• • • •	,
REF. DWG. NO. 5613-P-766-S	SH. 3				
050800 27.5"-RCS-1309-3	B-J	· PT	NDE 3.3-23	X	9/24/95 - PT AND UT COMPLETE, INNER
10" BRANCH CONNECTION	B9.31	UT 45	NDE 5.4-12	x	RADIUS GEOMETRY, LIMITED EXAMINATION DUE
		UT 60	NDE 5.4-12	x -	TO BRANCH CONNECTION CONFIGURATION



TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

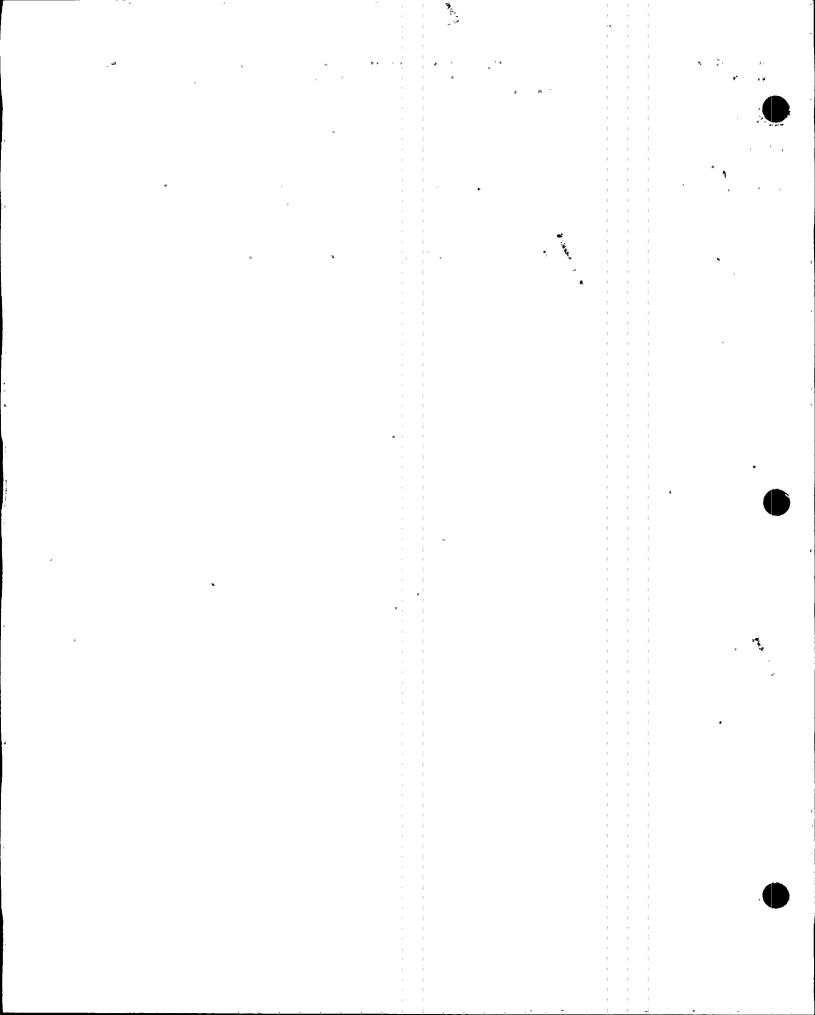
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

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CTOR COOLANT SYSTEM PRESSURIZER SAFETY LOOP A

					NI O	
ZONE NU	MBER: 3-017	ASME			ONGT	
		SEC. XI		7	RSEH	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		EIOE	REMARKS
	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C'G M·R	**CALIBRATION BLOCK**
						,
	•					
	REF. DWG. NO. 5613-P-660-S SH	. 3				
052700	4"-RC-1301-1A	B-F	ΡΤ	NDE 3.3-9	·x	9/15/95 - PT COMPLETE, 9/15/95 - RT
		B5.40		TS 9.3-1	X	COMPLETE, ACCEPTABLE SURFACE INDICATION
						·
						•
052800	4"-RC-1301-1	B-J	PT	NDE 3.3-9	x	9/15/95 - PT COMPLETE, 9/19/95 - UT
	SAFE END TO ELBOW	B9.11	UT 45	NDE 5.4-20	X -	COMPLETE, ROOT AND COUNTERBORE GEOMETRY
			UT 60	NDE 5.4-20	X -	·
			UT 70	NDE 5.4-20	X -	
						**UT-53, UT-45**
053/00	4"-RC-1301-7	B-J	PT	NDE 3.3-9	x	9/15/95 - PT COMPLETE, 9/17/95 - UT
033400	PIPE TO 180 DEGREE RETURN	B9.11	UT 45	NDE 5.4-9		COMPLETE
	THE TO TOO DESIRE RETORN	<i>27</i> • · · ·	UT 60	NDE 5.4-9	x	
						**UT-45**
	, ,			NDE / 4 /	v	0/40/05 - NT-4 COMPLETE
800	4"-RC-1301-FB	B-G-2	VT-1	NDE 4.1-4	×	9/19/95 - VT-1 COMPLETE
	PIPING FLANGE BOLTING	B7.50				

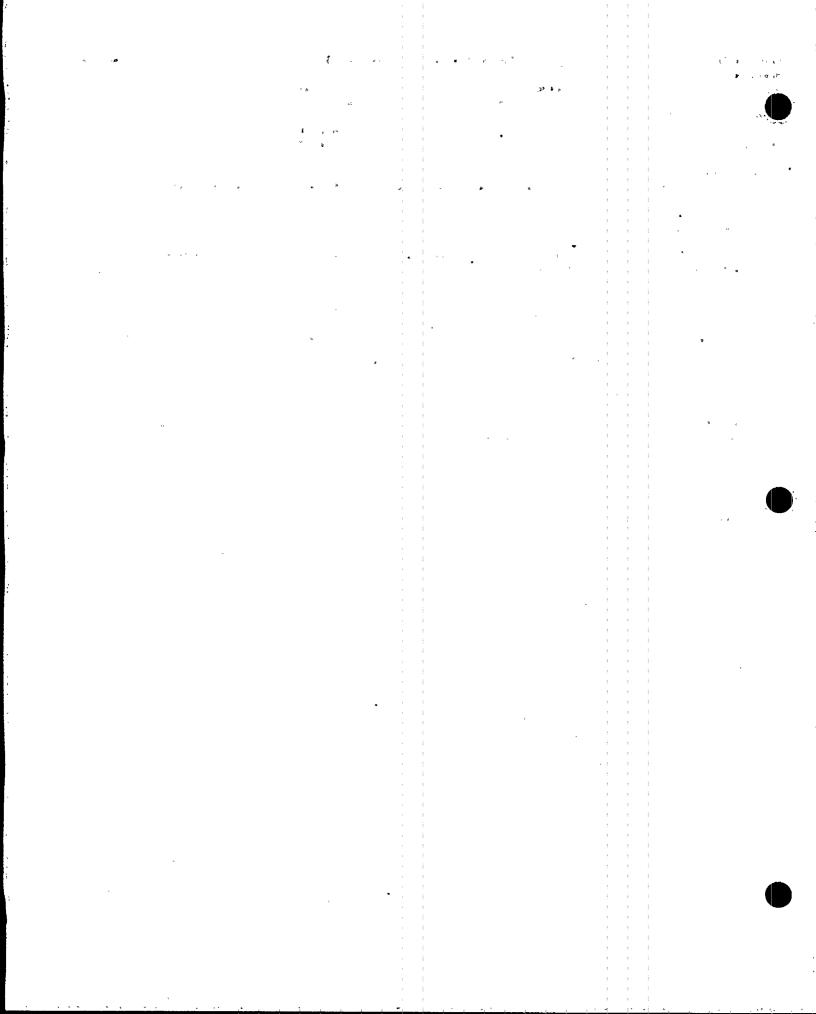


TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE PAGE:

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THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

	COOLANT SYSTEM PRESSURIZER				'N I O	•
ZONE NU	MBER: 3-018	ASME	4		ONGT	
		SEC. XI			R'S E.H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		EIOE	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C-G M R	**CALIBRATION BLOCK**
	REF. DWG. NO. 5613-P-660-5	SH. 3				,
054100	4"-RC-1302-1A	B-F	PΤ	NDE 3.3-10	x	9/15/95 - PT COMPLETE, 9/15/95 - RT
034100	NOZZLE TO SAFE END	B5.40	RT	TS 9.3		COMPLETE, ACCEPTABLE POROSITY, SLAG, TUNGSTUN, AND SURFACE INDICATIONS
	,					0.45.405
054200	4"-RC-1302-1	.B-J	,PT	NDE 3.3-10		9/15/95 - PT COMPLETE, 9/19/95 - UT
	SAFE END TO ELBOW	B9.11	UT 45	NDE 5.4-21		COMPLETE, ROOT AND COUNTERBORE GEOMETRY
	i.		UT 60 UT 70	NDE 5.4-21 NDE 5.4-21	X -	
			01 70	NUE 3.4-21		**UT-53, UT-45**
					ą	
054500	4"-RC-1302-4	B-J	PT '	NDE 3.3-10	x	9/15/95 - PT COMPLETE, 9/17/95 - UT
	ELBOW TO PIPE	B9.11	UT 45	NDE 5.4-8	x	COMPLETE
			UT 60	NDE 5.4-8	x	•
•	•					**UT-45**
200	4"-RC-1302-FB	, B-G-5	VT-1.	NDE 4.1-5	x	-9/19/95 - VT-1 COMPLETE
_	PIPING FLANGE BOLTING:	·87.50	v			



TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

CTOR COOLANT SYSTEM PRESSURIZER SAFETY LOOP C

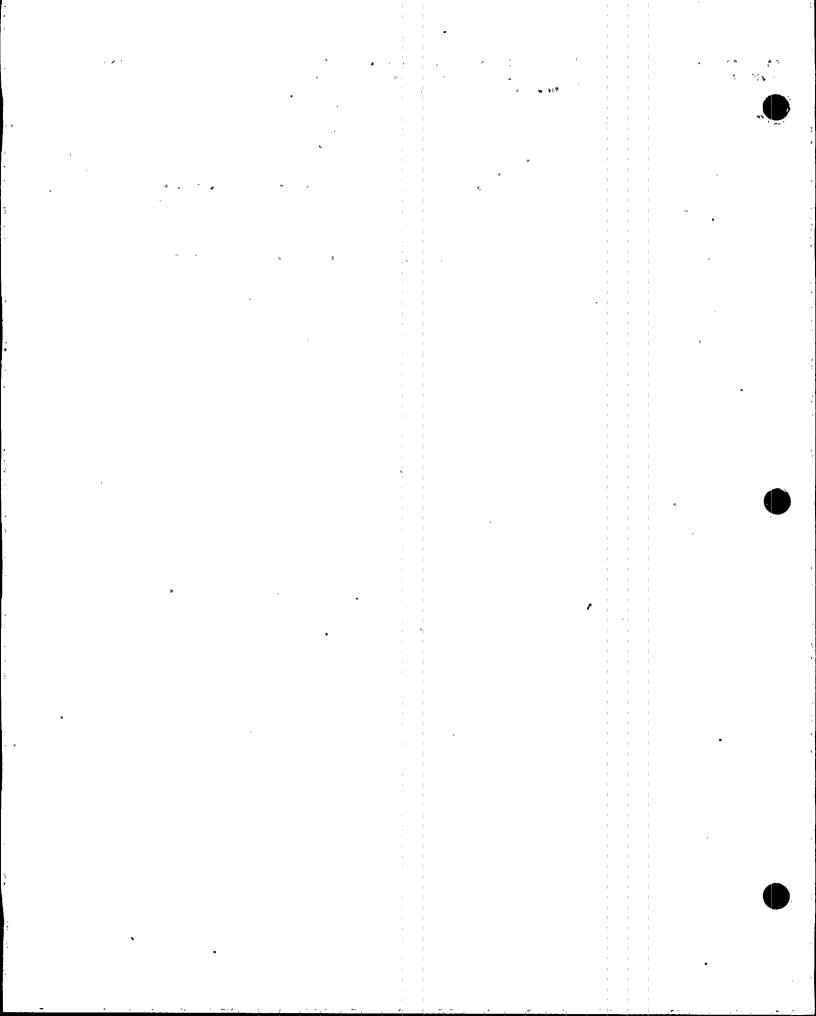
				#	NI O	
ZONE NU	MBER: 3-019	ASHE			ONGT	
		SEC. XI			RSEH	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		EIOE	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C G M.R.	**CALIBRATION BLOCK**
	·			•••••		•••••
	REF. DWG. NO. 5613-P-660-S S	н. 2				
055500	4"-RC-1303-1A	B-F	PT	NDE 3.3-11	x	9/15/95 - PT COMPLETE, 9/16/95 - RT
	NOZZLE TO SAFE END	85.40	RT	TS 9.3	x	COMPLETE, ACCEPTABLE SLAG AND SURFACE INDICATIONS
055400	4"-RC-1303-1	B-J	:PT	NDE 3.3-11	v	9/15/95 - PT COMPLETE, 9/19/95 - UT
00000	SAFE END TO:ELBOW	B9.11	UT 45	NDE 5.4-11		COMPLETE, ROOT AND COUNTERBORE GEOMETRY
	SAFE END TO ELBOW	B7.11	UT 60	NDE 5.4-11	X -	CONFECTE, ROOT AND CONTERBORE GEORETRI
			UT 70	NDE 5.4-11	X -	
			01 10	NOC 314 11	<b>7</b> .	**UT-53, UT-45**
054000	'4"-RC-1303-5	B-J	PT	NDE 3.3-12	V	9/16/95 - PT COMPLETE, 9/17/95 - UT
000000	PIPE TO ELBOW	B9.11	UT 45.	NDE 5.4-10		COMPLETE
	PIPE 10. ELBOW	57.11	UT 60	NDE 5.4-10	x	OMPLETE
			01 80	NUE 3.4°10	^	**UT-45**
200	4"-RC-1303-7	B-J		NDE 3.3-11		9/15/95 - PT COMPLETE, 9/17/95 - UT
	PIPE TO 180 DEGREE RETURN	B9.11	UT 45	NDE 5.4-10		COMPLETE
		3.	UT 60	NDE 5.4-10	x /	**UT-45**
056600	4"-RC-1303-FB	B-G-2	VT-1	NDE 4.1-9	x	9/19/95 - VT-1 COMPLETE, THREE DAMAGED
	PIPING FLANGE BOLTING	B7.50				THREADS OUTSIDE THREAD ENGAGEMENT AREA

#### TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

ACTOR COOLANT SYSTEM PRESSURIZER SPRAY TO PRZ.

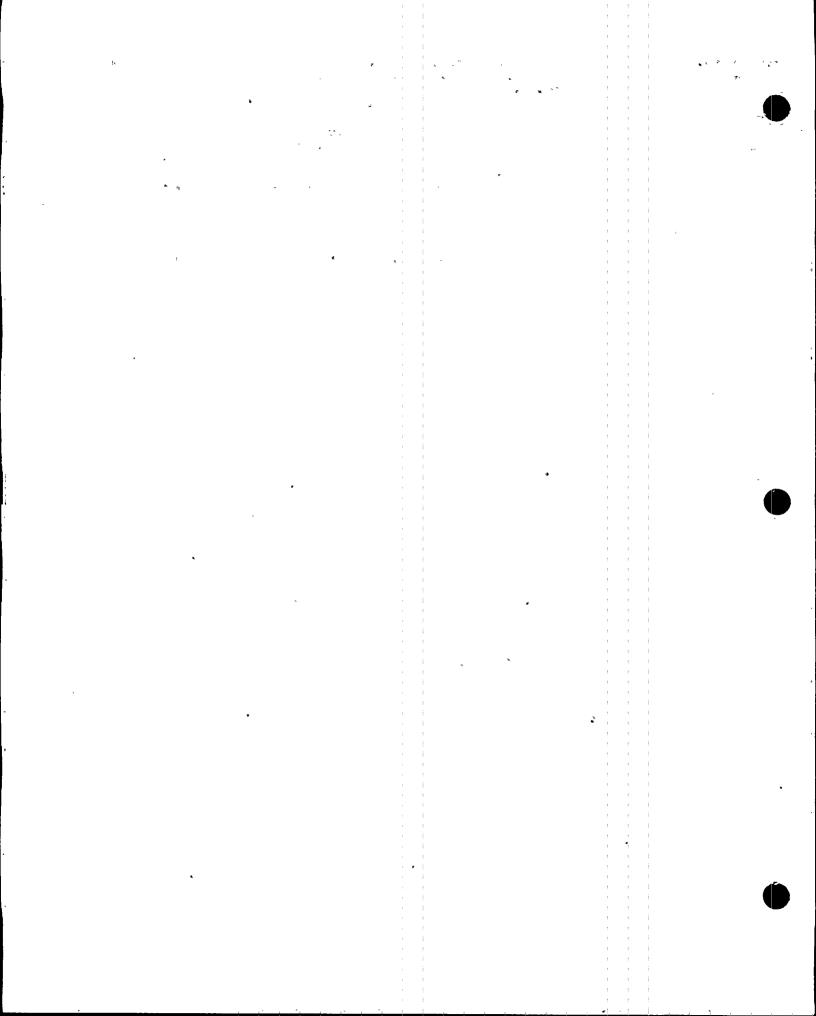
REACTOR	COULANT STSTEM PRESSURIZER SPA	CAT TU PRZ	<u> </u>		NI O	
20VE 111	UDED 7 . 020	ASME			ONGT	
ZUNE NU	MBER: 3-020	SEC. XI		*	RSEH	
CHUMADY	EXAMINATION AREA	CATGY	EXAM	•	EIOE	DEMADKS
	IDENTIFICATION	ITEM NO		PROCEDURE		**CALIBRATION BLOCK**
NOMBEK	IDENTIFICATION	1164 40	neinos	FROCEDORE	O G H K	CALIBRATION DECOR
	REF. DWG. NO. 5613-P-661-S SH	<u>1. 4</u> .				
061100	4"-RC-1304-18	B-J	PT	NDE 3.3-13	x	9/16/95 - PT AND UT COMPLETE
001100	ELBOW TO TEE	B9.11	UT 45	NDE 5.4-18	x	
			UT 60	NDE 5.4-18	χ	
		4				**UT-45**
					-	
061300	4"-RC-1304-20	B-J	·PT	NDE 3.3-13	x	9/16/95 - PT AND UT COMPLETE
	TEE TO TEE	B9.11	UT 45	NDE 5.4-18	·X	
	,		'UT 60	NDE 5.4-18	x	
						**UT-45**
	/W == 4 <b>T</b> 0/ <b>0</b> 0			une 7 7 47	.,	: 0/4//05
061500	4"-RC-1304-22	B-J B9.11	PT UT 45	NDE 3.3-13 NDE 5.4-18	X	9/16/95 - PT AND UT COMPLETE
	TEE TO ELBOW	By. 11	UT 60	NDE 5.4-18	X	
			01 00	NUE 3.4-10	<b>^</b>	**UT-45**
		i		*		
700	4"-RC-1304-23	·B-J	PT .	NDE 3.3-13	x	9/16/95 - PT AND UT COMPLETE, ROOT
	ELBOW TO 180 DEGREE RETURN	B9.11	UT 45	NDE 5.4-18		GEOMETRY
			UT 60 .	NDE 5.4-18	X -	
	_		•			**UT-45**
	•					
062000	4"-RC-1304-26	B-J	PT	NDE 3.3-14	x	9/15/95 - PT COMPLETE, 9/19/95 - UT
	PIPE TO SAFE-END	B9.11	UT 45	NDE 5.4-17	X -	COMPLETE, ROOT: AND COUNTERBORE GEOMETRY
			UT- 60	'NDE 5.4-17	X -	
			UT '70	NDE 5.4-17	X -	
						**UT-45, UT-53**
						<b>*</b>
062100	4"-RC-1304-1A	B-F	PΤ	NDE 3.3-14		9/15/95 - PT COMPLETE, 9/16/95 - RT
	SAFE-END TO NOZZLE	B5.40	RT	TS 9.3	X	COMPLETE, ACCEPTABLE POROSITY, SLAG, AND
	•					SURFACE INDICATIONS



### TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

ACTOR	COOLANT SYSTEM PRESSURIZER REL			PUBL STATUS COMPONE	NI O	
ZONE NU	MBER: 3-022	ASME SEC. XI			ON GT RSEH	
CHMMADY	EXAMINATION AREA	CATGY	EXAM			REMARKS
	IDENTIFICATION	ITEM NO		PROCEDURE		**CALIBRATION BLOCK**
******						
	•	*				
	REF. DWG. NO. 5613-P-660-S_SI	<u>ı. 1</u>				
068700	4"-RC-1306-1A	B-F	PT	NDE 3.3-20	x	9/15/95 - PT AND RT COMPLETE, ACCEPTABLE
	NOZZLE TO SAFE-END	B5.40	RT	TS 9.3	X.	SLAG, INDICATION FOUND ON ADJACENT WELD,
				•		VERIFIED TO BE A SURFACE IRREGULARITY BY
						VISUAL EXAMINATION
068800	4"-RC-1306-1	B-J		NDE 3.3-20		9/15/95 - PT COMPLETE, 9/19/95 - UT
	SAFE-END TO ELBOW	B9.11		NDE 5.4-19		COMPLETE, ROOT AND COUNTERBORE GEOMETRY
			UT. 60	NDE '5.4-19 NDE 5.4-19	-,- x - x -	
			01 70	NUE 3.4-19	^ -	**UT-53, 'UT-45**
						2. 22, 2. 3
069000	4"-RC-1306-3	B-J	PT	NDE 3.3-20	x	9/15/95 - PT COMPLETE, 9/17/95 - UT
	ELBOW TO ELBOW	B9.11	UT 45	NDE 5.4-6	'X	COMPLETE
			UT 60	NDE 5.4-6	x	
		•				**UT-45**
060100	/II_DO-4704-/	0-1	DT	NDE 3.3-20	, V	9/15/95 - PT COMPLETE, 9/16/95 - UT
009100	4"-RC-1306-4 ELBOW TO PIPE	B-J B9.11	PT UT 45	NDE 5.4-22		COMPLETE
	ELBON TO PIFE	57.11	UT 60	NDE 5.4-22	x	oon tere
			J. 50	,	•••	**UT-45**
069400	4"-RC-1306-7	B-J	,PT	NDE 3.3-17	x	9/15/95 - PT COMPLETE, 9/17/95 - UT
	TEE TO REDUCER	B9.11	UT 45	NDE 5.4-6	x	COMPLETE
			UT 60	NDE 5.4-6	X	
			UT 70	NDE 5.4-6	x	
•						**UT-45**
040500	3-RCH-27	F-A	VT-3	NDF. 4 3-15	Y	9/29/95 - VT-3 COMPLETE
007300	SPRING HANGER	F1.10C	· • 1 · J	not Tid-13	Λ	//L///J - TI-S OMFLEIG
	ж					
070700	3"-RC-1304-1	B-J	PT	NDE 3.3-17	x	9/15/95 - PT. COMPLETE
	'REDUCER. TO ELBOW	B9.21				

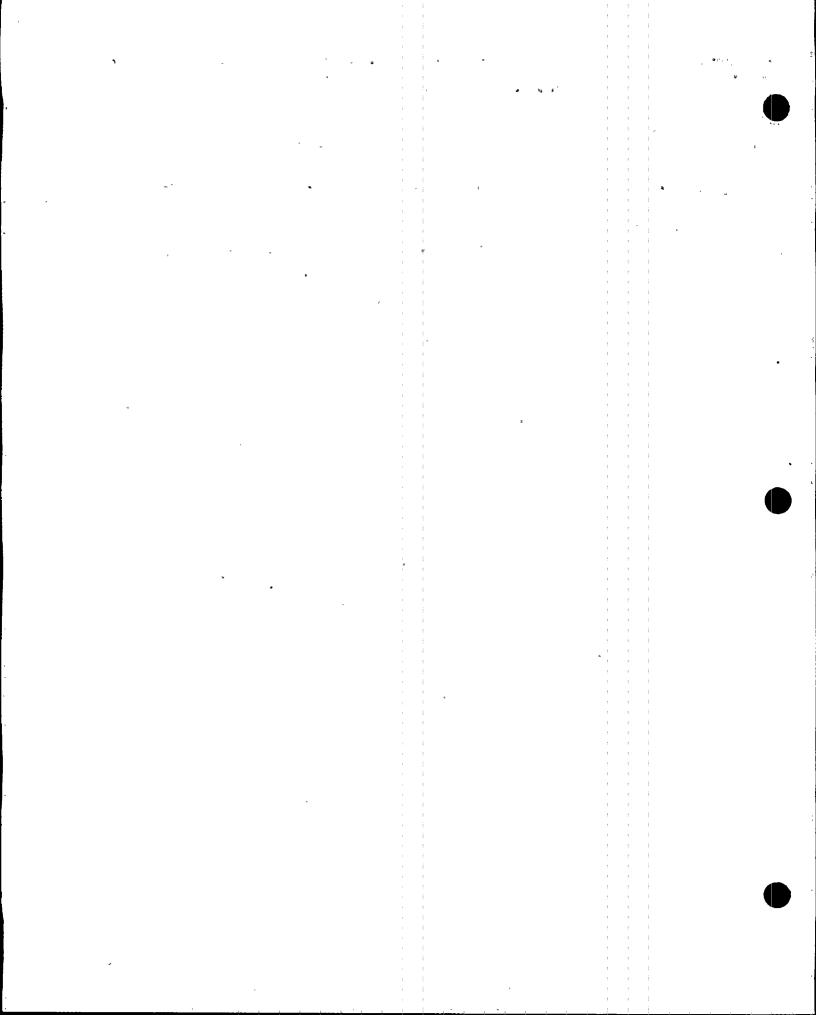


#### TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

PAGE:

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

M-ACTOR	COOLANT SYSTEM PRESSURIZER REL	IEF LINE				
					N I O	
ZONE NU	MBER: 3-022	ASME			ONGT	
		SEC. XI			RSEH	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		EIOE	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	CGMR	**CALIBRATION BLOCK**
						•••••
	REF. DWG. NO. 5613-P-660-S SH	<u>. 1</u>				
071240	3"-RC-1304-6	B-J	PŤ .	NDE 3.3-15	x	9/16/95 - PT COMPLETE
	ELBOW TO REDUCER	B9.21				
071280	,3"-RC-1304-7		PT	'NDE 3.3-17	x	9/15/95 - PT COMPLETE
	REDUCER TO VALVE PCV-3-456	B9.40		•		4.
•	•					
071700	3"-RC-1305-3	B-J	PT	NDE 3.3-8	x	.9/16/95 - PT COMPLETE, ONE UNACCEPTABLE
******	ELBOW TO ELBOW	B9.21		95-851		LINEAR INDICATION, REMOVED BY FLAPPING;
		_,,_,		NDE 3.3-18	x	9/18/95 - PT COMPLETE, THICKNESS
	•		UT THICK			MEASUREMENT PERFORMED TO VERIFY ACCEPTABLE WALL THICKNESS



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PAGE:

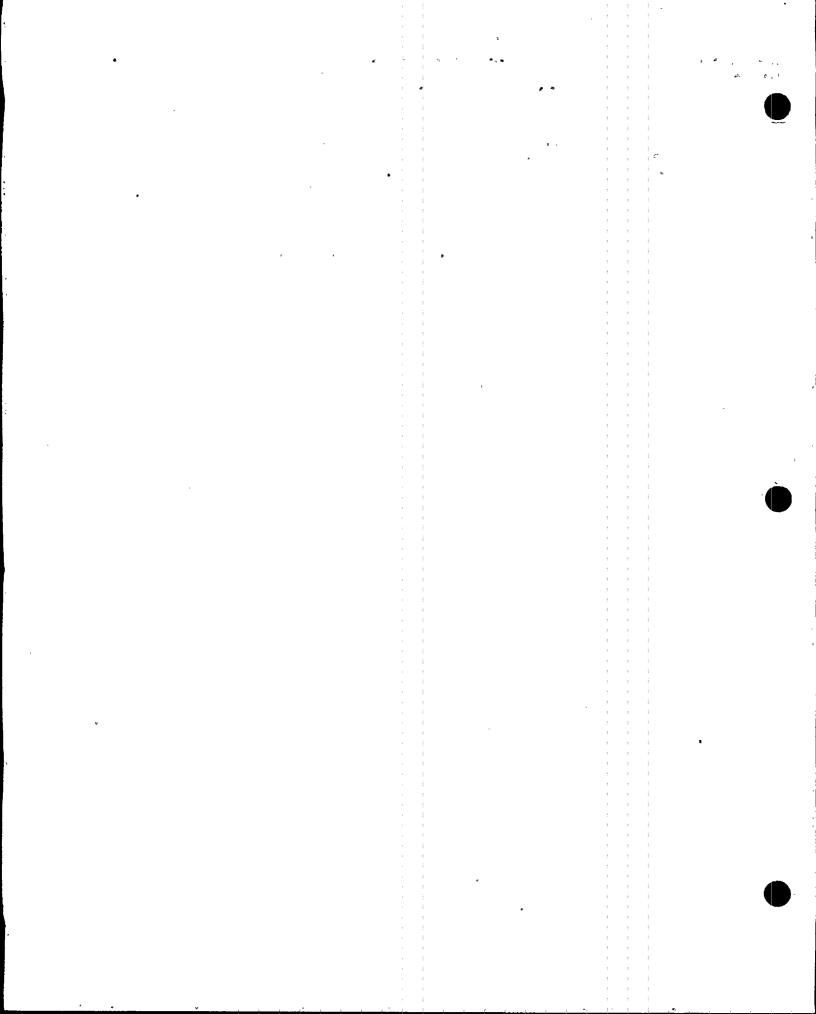
DATE: 12/15/95

REVISION: 0

TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

ACTOR	COOLANT:	SYSTEM	AUXILIARY	SPRAY LINE

ZONE NUMBER: 3-035			ASME SEC. XI			N 1 U O N G T R S E H		
			CATGY ITEM NO	EXAM METHOD	.PROCEDURE	E. I O.E	REMARKS **CALIBRATION BLOCK**	
		REF. DWG. NO. 5613-P-661-S SH				• • • •		
	114300		B-J B9.40	PT	NDE 3.3-7	x	9/17/95 - PT COMPLETE	
	114400·	2"-RC-1310-2 VALVE 3-313 TO PIPE	B-J B9.40	PT .	NDE 3.3-7	x	9/17/95 - PT COMPLETE	
	.114600	2"-RC-1310-3 PIPE TO VALVE 3-313	B-J B9.40	PT	NDE 3.3-7	x	9/17/95 - PT COMPLETE	
	114900	2"-RC-1310-4 ELBOW TO PIPE	B-J B9.40	· <b>PT</b> "	NDE 3.3-7	x	9/17/95 - PT COMPLETE `	



TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)

PAGE:

19

CLASS 1 CAEPOBL STATUS COMPONENTS

MICAL & VOLUME CONTROL FROM THE REGENERATIVE HX

N.I O ONGT ZONE NUMBER: 3-049 ASHE RSEH SEC. XI

E I O E REMARKS CATGY SUMMARY EXAMINATION AREA EXAM

C G M R \*\*CALIBRATION BLOCK\*\* ITEM NO METHOD PROCEDURE NUMBER IDENTIFICATION

REF. DWG. NO. 5613-P-644-S SH. 3

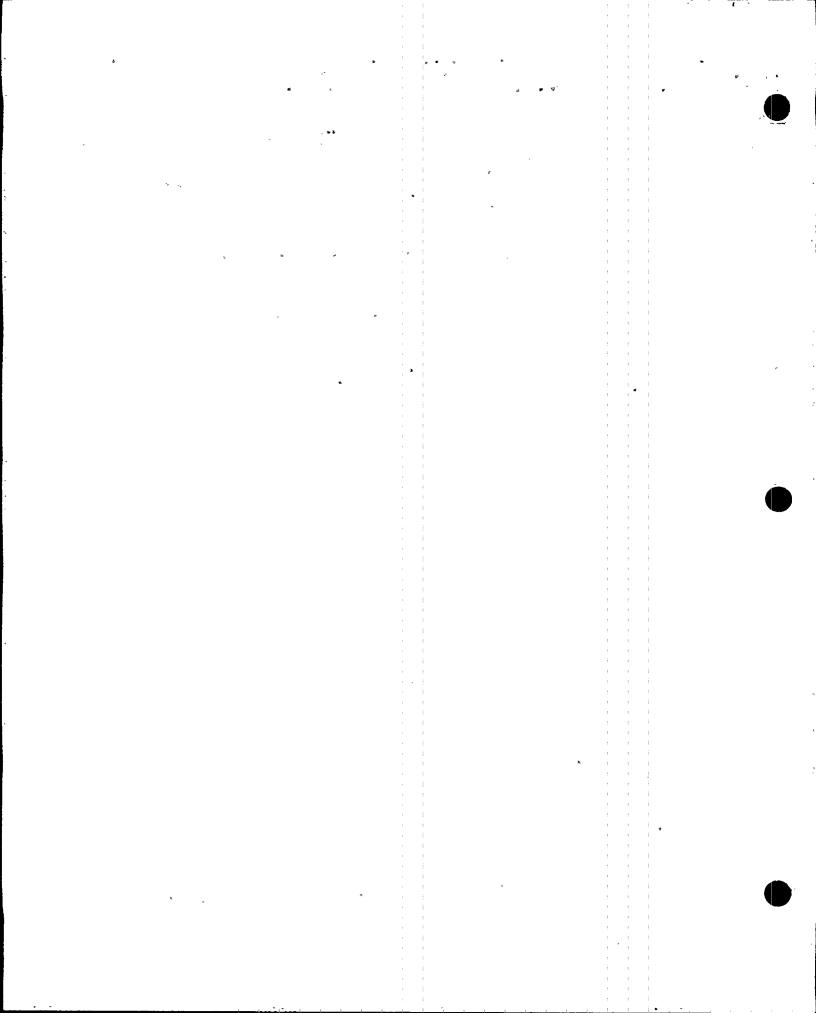
X - - - 9/13/95 - VT-3 COMPLETE VT-3 NDE 4.3-13 177900 422-A F-A

DOUBLE ACTING RESTRAINT F1.10B

REF. DWG. NO. 5613-P-644-S SH. 2

NDE 4.3-12 X - - - 9/13/95 - VT-3 COMPLETE 179600 423-C F-A VT-3

DOUBLE ACTING, RESTRAINT F1.10B



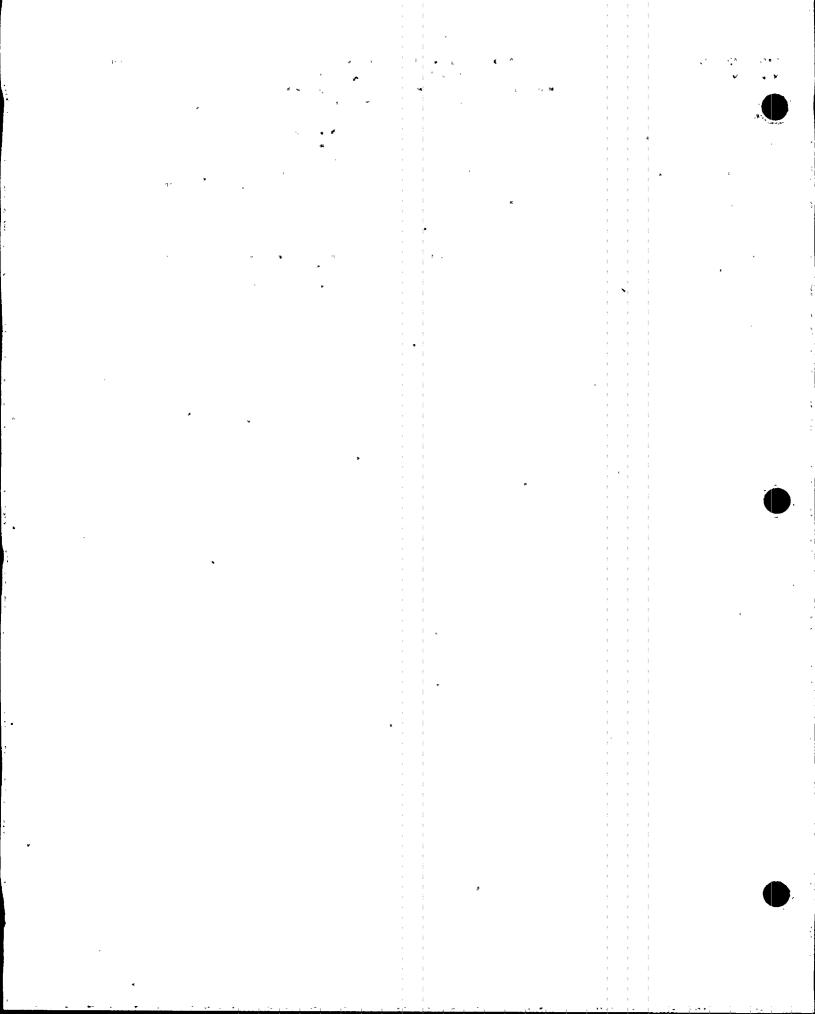
TURKEY POINT NUCLEAR PLANT UNIT 3:
INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 1 CAEPOBL STATUS COMPONENTS

PAGE: 20

CTOR COOLANT PUMP C

SUMMARY E	ER: 3-058 XAMINATION AREA	ASME SEC. XI CATGY	EXAM		N.I O ONGT RSEH EIOE	
NUMBER I	DENTIFICATION	ITEM NO	METHOD	PROCEDURE		**CALIBRATION BLOCK**
	-RCP-C-FLYWHEEL LYWHEEL	RG 1.14		NDE 5.15-1 NDE 5.15	x	9/20/95 - UT COMPLETE, EXAMINED FROM THE OUTER EDGE OF THE FLYWHEEL, SURFACE EXAMINATION NOT REQUIRED THIS OUTAGE

\*\*FLYWHEEL\*\*



ZONE NUMBER: 3-059

TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)

PAGE:

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CLASS 1 CAEPOBL STATUS COMPONENTS

MICAL & VOLUME CONTROL, REGENERATIVE HEAT EXCH

N I O ONGT ASME

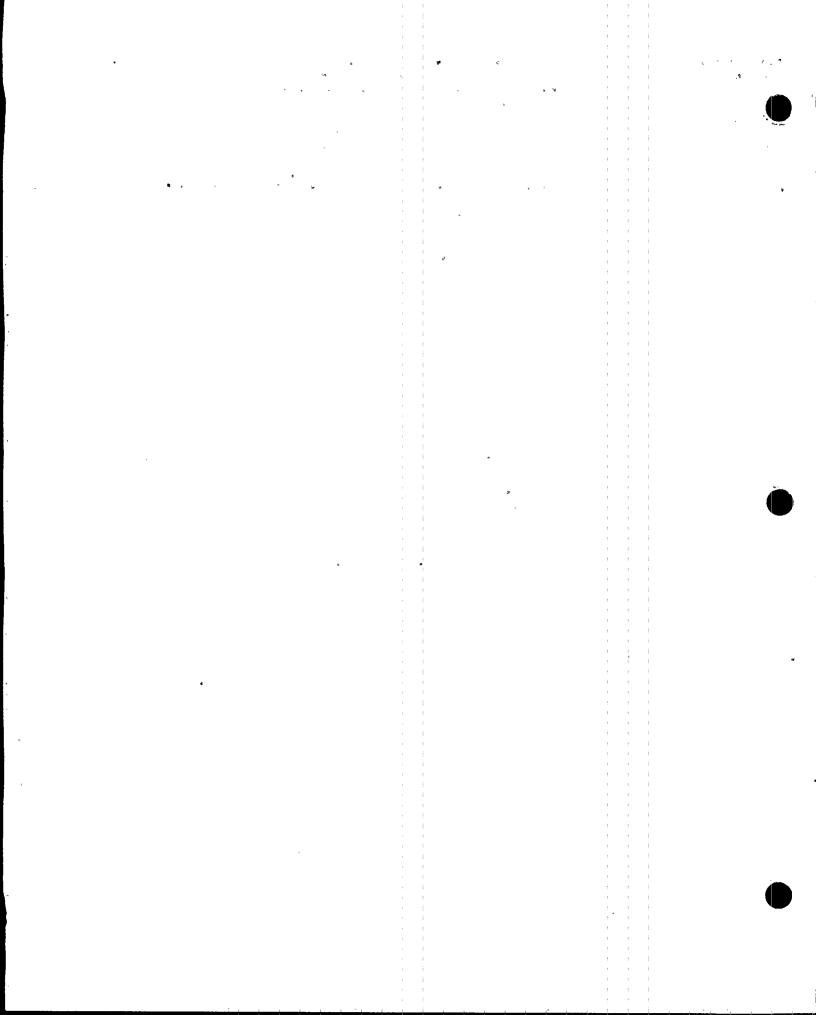
SEC. XI R S'E H E I O.E REMARKS CATGY EXAM

SUMMARY EXAMINATION AREA PROCEDURE C G M R \*\*CALIBRATION BLOCK\*\* ITEM NO METHOD NUMBER IDENTIFICATION

REF. DWG. NO. 5613-M-4009

204100 RGX 3E200 VT-2 NDE 4.2-1 X - - - 9/15/95 - VT-3 COMPLETE, 10/5/95 - VT-2

X - - - COMPLETE VISUALS FOR LEAKAGE VT-3 NDE 4.3-10



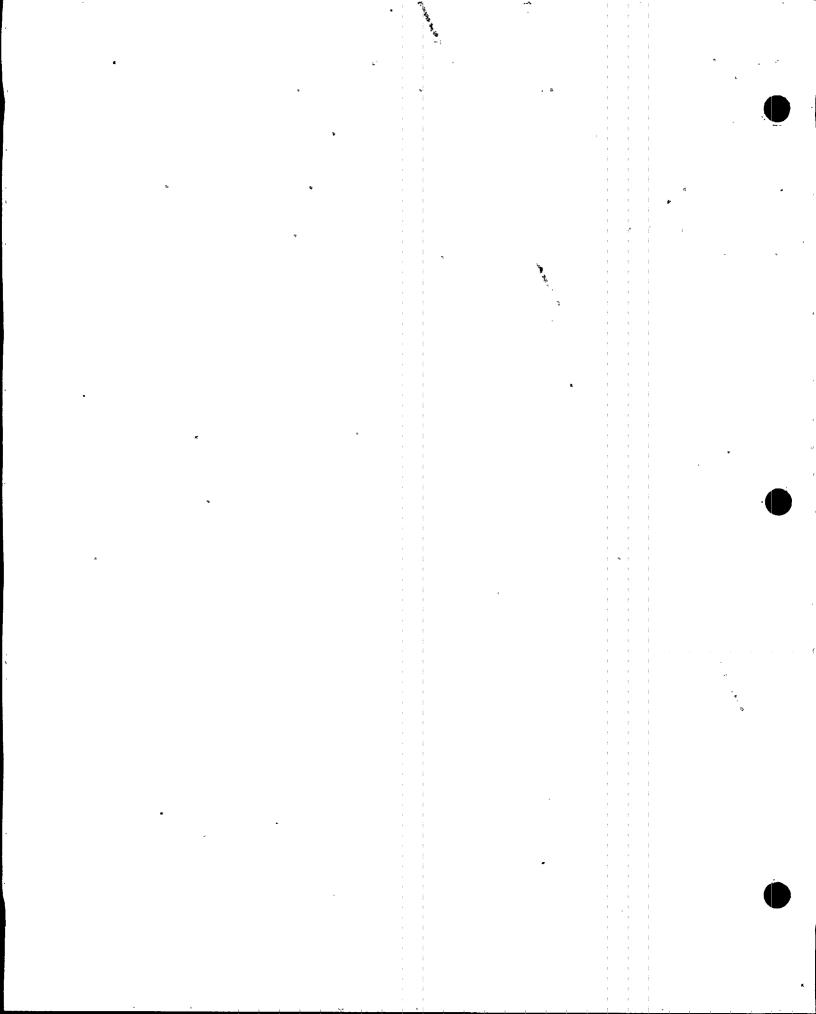
DATE: 12/15/95 REVISION: 0

# TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF) CLASS 2 CAEPOBL STATUS COMPONENTS

AM GENERATOR B SECONDARY SIDE

OTEMI-O	ZHEMATON B SESSIONAL STATE				NI O	
ZONE NII	MBER: 3-061	ASME			ONGT	
		SEC. XI			RSEH	
CHIMMADY	EXAMINATION AREA	CATGY.	EXAM			REMARKS
	IDENTIFICATION	ITEM. NO		PROCEDURE		**CALIBRATION BLOCK**
	10001111001100					
		-				
	REF. DWG. NO. 5613-M-4004					
210800	3-SGB-G	C-A	UT O	NDE 5.1-1	x	9/26/95 - UT COMPLETE
	LOWER INTERHEDIATE SHELL TO	C1.10	UT 45	NDE 5.4-1	x	
	TRANSITION		UT 60	NDE 5.4-1	x	
			UT 70	NDE 5.4-1	x	
						**UT-7**
						•
210900	3-SGB-CL	C-A	UT O	NDE 5.1-1	x	9/26/95 - UT COMPLETE, ACCEPTABLE
2.07.00	TRANSITION TO UPPER SHELL WELD			NDE 5.1-1		INCLUSIONS
			UT 60	NDE 5.1-1	x	
			UT 70	NDE 5.1-1	x	
						**UT-7**
						•
211300	3-SGB-P	C-A	UT 'O	NDE 5.1-2	x	9/25/95 - UT COMPLETE, ACCEPTABLE SLAG
	UPPER SHELL TO HEAD	C1.20	UT 45	NDE 5.1-2		INCLUSIONS
				NDE 5.1-2	X	
			UT 70	NDE 5.1-2	·х	
						**UT-7**
211400	3-SGB-ST	C-B	HT	NDE 2.2-4	x	9/25/95 - MT AND UT COMPLETE
	STEAM NOZZLE TO HEAD	C2.21	UT 0	NDE 5.1-2	' X	,
			UT 70	NDE 5.1-2	x	
				-		**UT-7**
211500	3-SGB-ST-IRS	C-B	UT 45	NDE 5.13-3	x	9/26/95 - UT COMPLETE
	STEAM NOZZLE INNER RADIUS	C2.22				
	SECTION			1	•	

\*\*UT-3\*\*

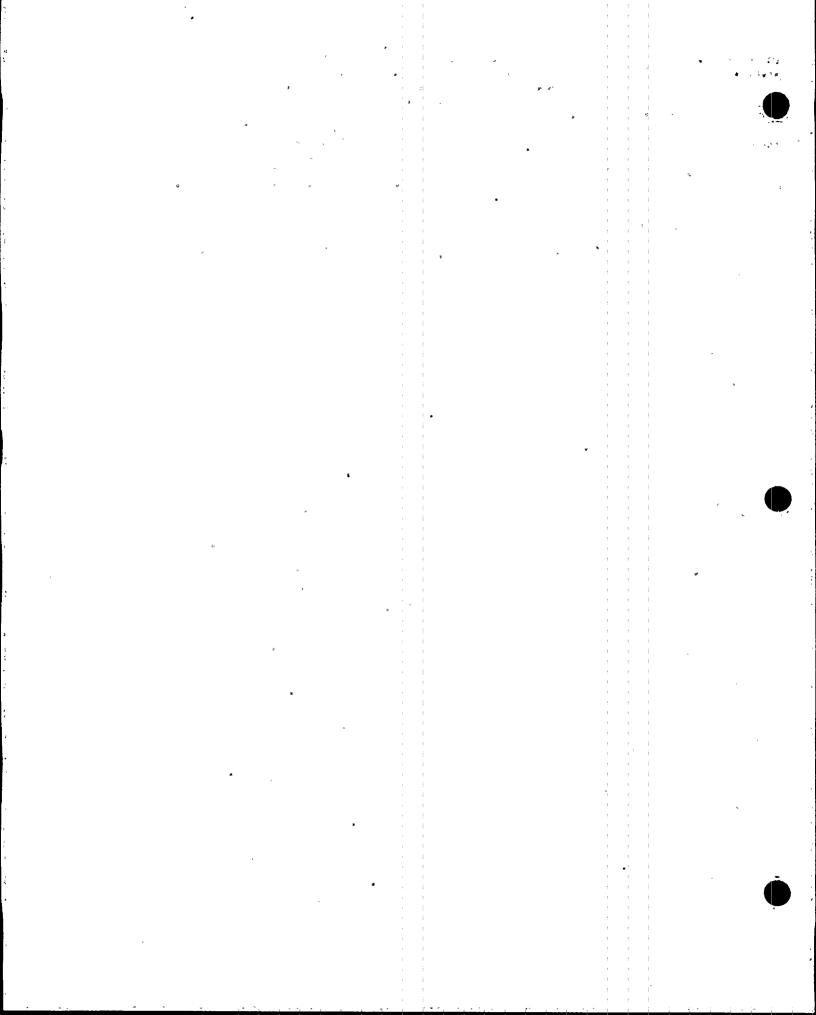


TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 2 CAEPOBL STATUS COMPONENTS

					NI O	•
ZONE NU	MBER: 3-063	ASME			ONGT	
		SEC. XI			RSEH	P514P14P
	EXAMINATION AREA	CATGY	EXAM		EIOE	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	CGMR	**CALIBRATION BLOCK**
•						
1	REF. DWG. NO. 5613-P-669-S SI	н. 1				
	NCT - DWG - NOT - DO TO - DO TO - D	····				
212800	14"-RHR-2301-1	C-F-1	PT	NDE 3.3-5	x`	9/9/95 - PT COMPLETE, 9/10/95 - UT
	VALVE 3-751 TO ELBOW	C5.11	.UT 45	NDE 5.4-4		COMPLETE, LIMITED EXAMINATION DUE TO
			UT 60	NDE 5.4-4		VALVE CONFIGURATION
			UT .70	NDE 5.4-4	x	AAAA MAAA
						**UT-33**
212900	14"-RHR-2301-1LS1	C-F-1	PT	NDE 3.3-5	x	9/9/95 - PT COMPLETE, 9/10/95 - UT
	LONG SEAM DOWNSTREAM INSIDE	C5.12	'UT 45	NDE 5.4-4	x	COMPLETE
	RADIUS					
		u				**UT-33**
						01-33
				5		
213000	14"-RHR-2301-1LS2		PT	NDE 3.3-5		9/9/95 - PT COMPLETE, 9/10/95 - UT
	LONG SEAM DOWNSTREAM OUTSIDE	C5.12	UT 45	NDE 5.4-4	. x	COMPLETE
	RADIUS				•	
						**UT-33**
				И		
247000	4/11 0110-2704-21-04	C-E-1	DT	NDE 3.3-5	V'	0/0/0E - DT COMPLETE 0/40/0E - UT
213000	14"-RHR-2301-2LS1	C-F-1 C5.12	PT UT 45	NDE 5.4-4		9/9/95 - PT COMPLETE, 9/10/95 - UT
	ELBOW LONG SEAM, UPSTREAM INSIDE RADIUS	65.12	01 43	NUE 3.4-4	*	CONFLETE
	INSIDE RADIOS					
						**UT-33**
	•	•				
,						А.
213090	14"-RHR-2301-2LS2	C-F-1	PT	NDE 3.3-5		9/9/95 - PT COMPLETE, 9/10/95 - UT
	ELBOW LONG SEAM UPSTREAM	C5.12	UT. 45	NDE 5.4-4	x	COMPLETE
	OUTSIDE RADIUS					•
						**UT-33**
ı						
213100	14"-RHR-2301-2	C-F-1	PT	NDE 3.3-5	X	9/9/95 - PT COMPLETE, 9/10/95 - UT
213100	ELBOW TO PIPE	C5.11	UT 45	NDE 5.4-4		COMPLETE
	PPOON IN LAIF	<del></del>	UT 60	NDE 5.4-4	X	
			J			

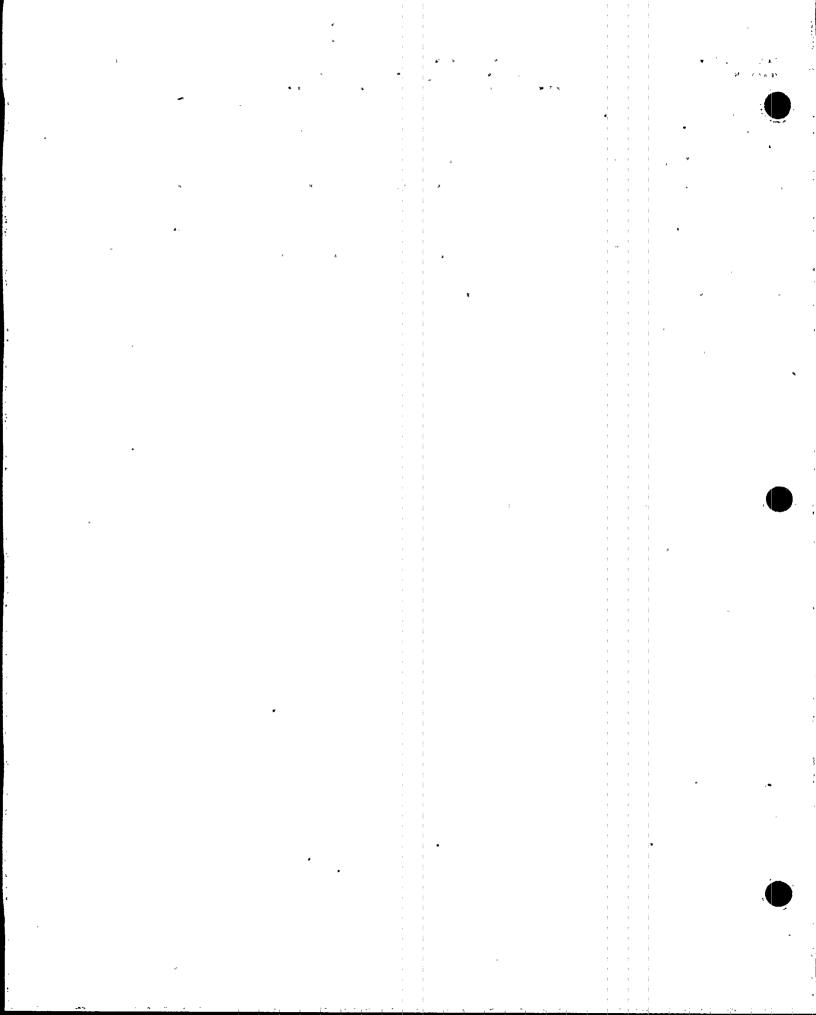
\*\*UT-33\*\*



## TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF) CLASS 2 CAEPOBL STATUS COMPONENTS

JIDUA	L HEAT REMOVAL TO RESID.HEAT RE	<u>MOVAL PUM</u>	<u>P A</u>			
	,	4			NI O	
ZONE NUMBER: 3-063		ASME			O'N. G T	
		SEC. XI.			RSEH	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		EIOE	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	CGMR	**CALIBRATION BLOCK**
	REF. DWG. NO. 5613-P-669-S SH	<u>. 1</u>			•	
	•					
213400	14"-RHR-2301-3	C-F-1	PΤ	NDE 3.3-5	x	9/9/95 - PT COMPLETE, 9/10/95 - UT
	PIPE TO ELBOW	C5.11	UT 45	NDE 5.4-4		COMPLETE
			UT. 60	NDE 5.4-4	x	
						**UT-33**
213500	14"-RHR-2301-3LS1	C-F-1	PT	NDE 3.3-5		9/9/95 - PT COMPLETE, 9/10/95 - UT
	ELBOW LONG, SEAM INSIDE RADIUS	C5.12	UT 45	NDE 5.4-4	x	COMPLETE
						**UT-33**
	•					
213600	14"-RHR-2301-3LS2	C-F-1	PT	NDE 3.3-5		9/9/95 - PT COMPLETE, 9/10/95 - UT
	ELBOW LONG SEAM OUTSIDE RADIUS	C5.12	UT 45	NDE 5.4-4	X	COMPLETE
						**UT-33**
<b>A</b>	*					0.0.00
680		C-F-1	PT	NDE 3.3-5		9/9/95 - PT COMPLETE, 9/10/95 - UT
		C5.12	UT 45	NDE 5.4-4	x	COMPLETE
	RADIUS					
						**UT-33**
213690	14"-RHR-2301-4LUO	C-F-1	PT	NDE 3.3-5	x	9/9/95 - PT COMPLETE, 9/10/95 - UT
	LONG SEAM UPSTREAM OUTSIDE	C5.12	UT 45"	NDE 5.4-4	x	COMPLETE
	RADIUS					
						**UT-33**
			1			
213700	14"-RHR-2301-4	C-F-1	PT	NDE 3.3-5	x	9/9/95 - PT COMPLETE, 9/10/95 - UT
	ELBOW TO ELBOW	C5.11	UT 45	NDE 5.4-4	x	COMPLETE
			UT 60	NDE 5.4-4	x	
						**UT-33**
213750	14"-RHR-2301-4LD1	C-F-1	PT	NDE 3.3-5	x	9/9/95 - PT. COMPLETE, 9/10/95 - UT
	LONG SEAM DOWNSTREAM INSIDE	C5.12	UT 45	NDE 5.4-4		COMPLETE
	RADIUS	· <del></del>	· ·-	= •		<del></del>

\*\*UT-33\*\*



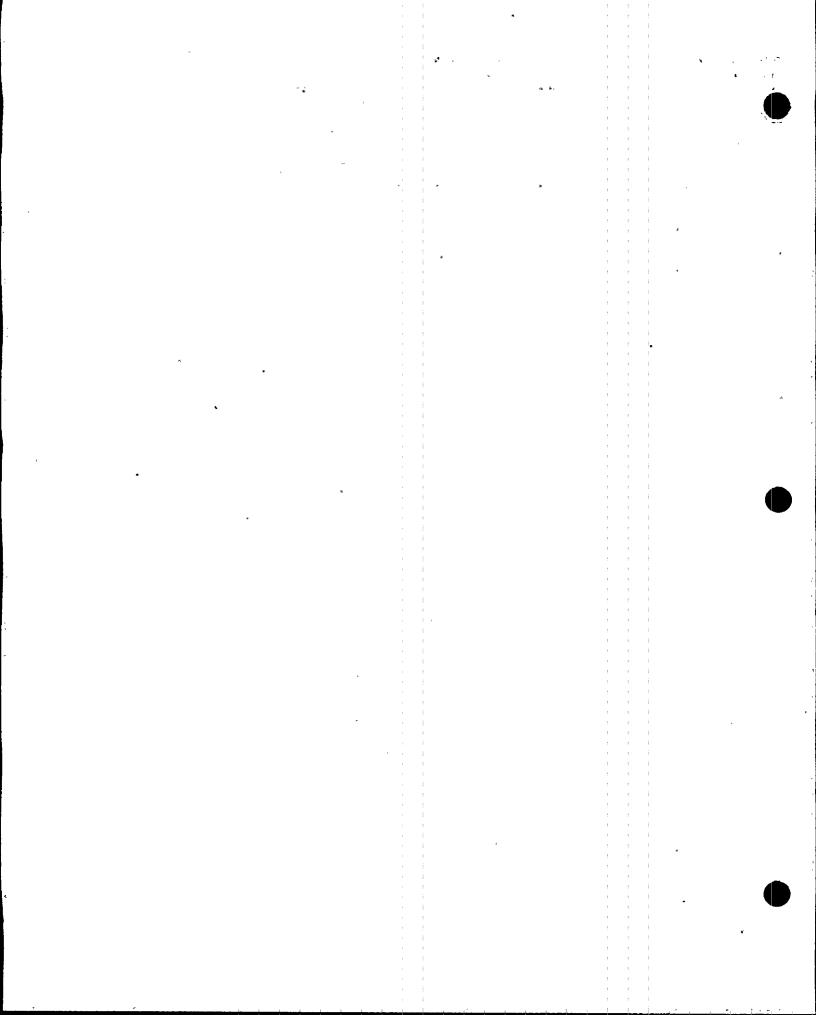
# TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 2 CAEPOBL STATUS COMPONENTS

SIDUAL	HEAT	REMOVAL	TO	RESID.HEAT	REMOVAL	PUMP_A

AL-JIDUA	L HEAT REMOVAL TO RESID.HEAT RE	MOVAL PUM	I <u>P</u> A				
ZONE 'NUI	MBER: 3-063	ASME SEC. XI			NI O ONGT RSEH		
	EXAMINATION AREA IDENTIFICATION	CATGY TIEM NO	EXAM METHOD	'PROCEDURE	EIOE	REMARKS **CALIBRATION:BLOCK**	
	REF. DWG. NO. 5613-P-669-S_SH	<u>. 1</u>					
213800	14"-RHR-2301-4LDO LONG SEAM DOWNSTREAM OUTSIDE RADIUS	C-F-1 C5.12	PT UT 45	NDE 3.3-5 NDE 5.4-4		9/9/95 - PT COMPLETE, 9/10/95 - UT COMPLETE	
						**UT-33**	
-214000	14"-RHR-2301-5LUI ELBOW LONG SEAM INSIDE RADIUS	C-F-1 C5.12	PT UT 45	NDE 3.3-5 NDE 5.4-5		9/9/95 - PT COMPLETE, 9/10/95 - UT COMPLETE	
	UPSTREAM					**UT-33**	
						0. 33	
214100	14"-RHR-2301-5LUO LONG SEAM OUTSIDE RADIUS UPSTREAM	C-F-1 C5.12	PT UT 45	NDE 3.3-5 NDE 5.4-5		9/9/95 - PT COMPLETE, 9/10/95 - UT COMPLETE	
				•		**UT-33**	
214200	:14"-RHR-2301-5	C-F-1	'PT	NDE 3.3-5	x	9/9/95 - PT COMPLETE, 9/10/95 - UT	
	ELBOW TO PIPE	C5.11	UT 45 UT 60	NDE 5.4-5 NDE 5.4-5	X - X -	COMPLETE, COUNTERBORE GEOMETRY	
			UT 70	NDE 5.425	x -	**UT-33**	
21/500	14"-RHR-2301-6	C-F-1	PT	NDE 3.3-5	· <b>v</b>	9/9/95 - PT COMPLETE, 9/10/95 - UT	
214300	PIPE TO ELBOW	C5.11	UT 45	NDE 5.4-5		COMPLETE	
			UT 60	NDE 5.4-5	·X	**UT-33**	
214540	14"-RHR-2301-6LDI	C-F-1	· <b>P</b> T	NDE 3.3-5	• X'	9/9/95 - PT COMPLETE, 9/10/95 - UT	
	LONG SEAM INSIDE RADIUS DOWNSTREAM	C5.12	UT: 45	NDE 5.4-5		COMPLETE	

\*\*UT.-33\*\*



TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

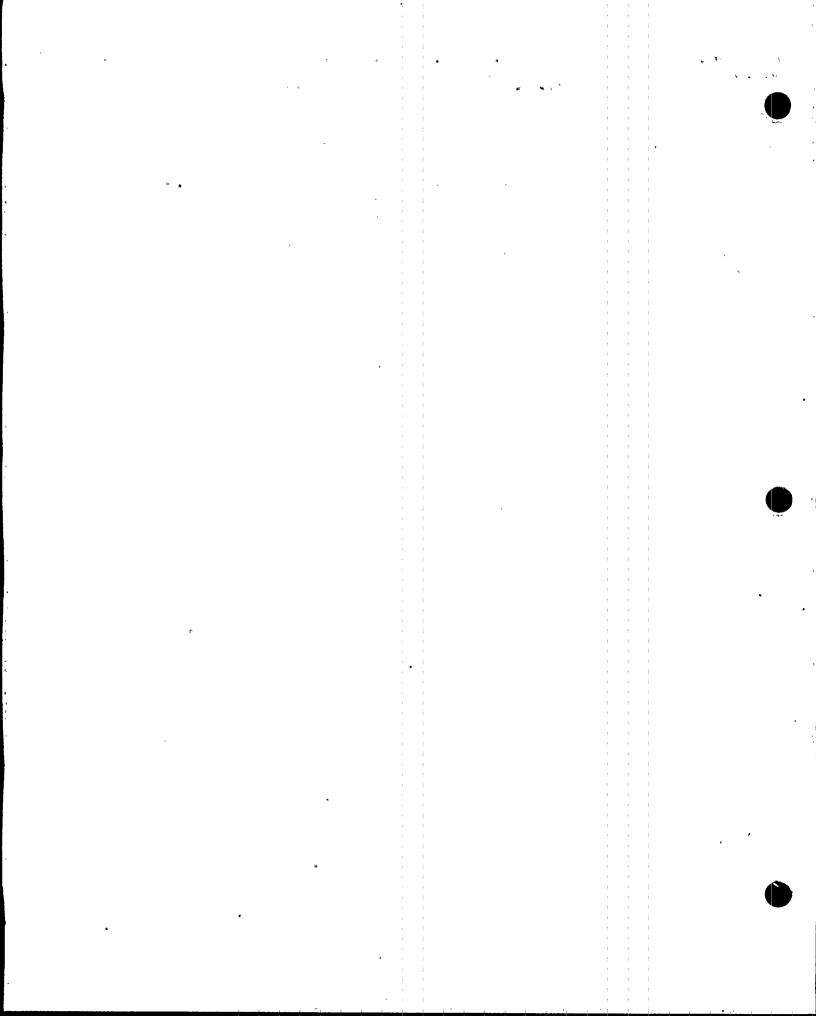
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 2 CAEPOBL STATUS COMPONENTS

PAGE:

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N-STDUAL	HEAT	REMOVAL	TO RESID	.HEAT	REMOVAL	PUMP_A

ZONE NU	MBER: 3-063	ASME					O G T	
		SEC. XI			R	s	E H	
SUMMARY	EXAMINATION AREA	CATGY	EXAM					REMARKS
NUMBER	IDENTIFICATION.	ITEMINO	METHOD	PROCEDURE	·C	G	M R	**CALIBRATION BLOCK**
					-	-		
	REF. DWG. NO. 5613-P-669-S SH	. 1		٠				
214560	14"-RHR-2301-6LDO	C-F-1	.PT	NDE 3.3-5	Х	-		9/9/95 - PT COMPLETE, 9/9/95 - UT
	LONG SEAM OUTSIDE RADIUS' DOWNSTREAM	C5.12.	UT 45	NDE 5.4-5	X	•		COMPLETE
								**UT-33** .
214580	14"-RHR-2301-7LUI	C-F-1	PT	NDE 3.3-5	x	-		9/9/95 - PT COMPLETE, 9/10/95 - UT
	LONG SEAM INSIDE RADIUS UPSTREAM	°C5.12	UT 45	NDE 5.4-5	X	-	• •	COMPLETE
								**UT-33**
		•						
214590	14"-RHR-2301-7LUO	C-F-1		NDE 3.3-5				9/9/95 - PT COMPLETE, 9/10/95 - UT
	LONG SEAM OUTSIDE RADIUS UPSTREAM	C5.12	UT 45	NDE 5.4-5	X	-		COMPLETE
<b>.</b>			y •					**UT-33**
214600	14"-RHR-2301-7	C-F-1	ΡT	NDE 3.3-5	X	-		9/9/95 - PT COMPLETE, 9/10/95 - UT
	ELBOW TO PIPE	C5.11	UT 45	NDE 5.4-5	X.	•		COMPLETE
			UT 60	NDE 5.4-5	X	-	• •	•
								**UT-33**
214700	CONT. PENETRATION P-1 IA INTEGRAL ATTACHMENT	C-C C3.20	PT.	NDE 3.3-5	X	-		9/9/95 - PT COMPLETE
	REF. DWG. NO. 5613-P-600-S SH	<u>. 1</u>						
215700	SR-251	F-A	VT-3	NDE 4.3-1	X	-		8/25/95 - VT-3 COMPLETE
	SPRING HANGER	F1.20C						

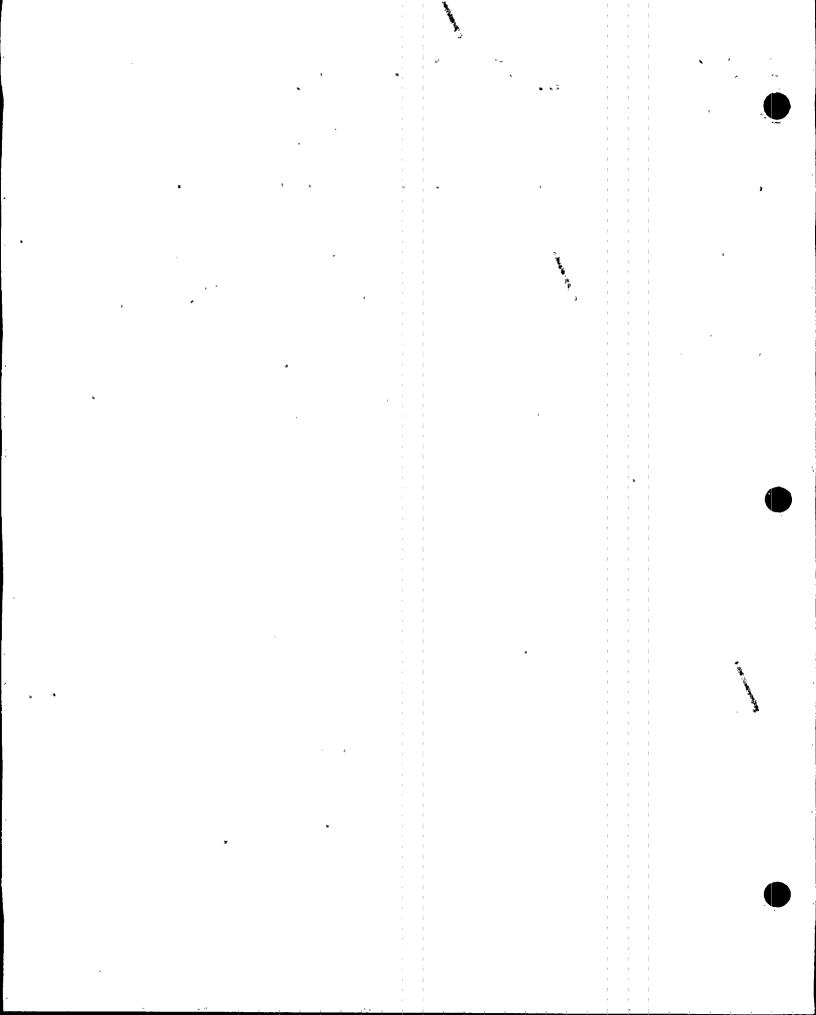


DATE: 12/15/95 REVISION: 0 TURKEY POINT NUCLEAR PLANT UNIT 3
INSERVICE INSPECTION RESULTS FOR THE
INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 2 CAEPOBL STATUS COMPONENTS

HEG LUUA	L HEAT REMOVAL FROM CONTAINMENT	SUMP B			N I O	
ZONE NU	MBER: 3-067	ASHE			ONGT	
		SEC. XI			RSEH	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		EIOE	
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	CGMR	**CALIBRATION BLOCK**
	REF. DWG. NO. 5613-P-600-S SI	1 <u>. 2</u>				
223400	14"-RHR-2306-1LU	C-F-1	PT	NDE 3.3-1	x	8/25/95 - PT AND UT COMPLETE
	LONGITUDINAL SEAM UPSTREAM	C5.12	UT 45	NDE 5.4-2	x	
					•	**UT-33**
					•	01-33
	A					9.427.407 - DV AND NV ADMINISTR DADV
223500	14"-RHR-2306-1	C-F-1 C5.11	.PT UT: 45	NDE 3.3-1 NDE 5.4-2		8/25/95 - PT AND UT COMPLETE, ROOT GEOMETRY
	PIPE TO ELBOW	65.11	UT 60	NDE 5.4-2	x -	
			01 00	NOC 514 C	^	**UT-33**
223520	14"-RHR-2306-1LD0	C-F-1	PΤ	NDE 3.3-1	x	8/25/95 - PT AND UT COMPLETE
220720	LONG SEAM DOWNSTREAM OUTSIDE		UT 45	NDE 5.4-2	x	*
	RADIUS					
_						**UT-33**
				•		
223540	14"-RHR-2306-1LDI	C-F-1	PT	NDE 3.3-1	x	-8/25/95 - PT AND UT COMPLETE
	LONG SEAM DOWNSTREAM INSIDE RADIUS	C5.12	UT 45	NDE 5.4-2	x	,
						**UY-33**
223680	14"-RHR-2306-3LU	C-F-1	PT	NDE 3.3-2	x	8/24/95 - PT AND UT COMPLETE
	LONGITUDINAL SEAM WELD UPSTREAM	C5.12	UT 45	NDE 5.4-3	x	
						**UT-33**
22700	14"-RHR-2306-3	C-F-1	PT:	NDE 3.3-2	V	8/24/95 - PT AND UT COMPLETE, ONE
223100	PIPE TO VALVE MOV-3-860B	C5.11	UT: 45	NDE 5.4-3		ACCEPTABLE ROUND INDICATION, ROOT
	FIFE 10 TACTE NOT 5 COOR	32.11	UT 60	NDE 5.4-3		GEONETRY, LIMITED EXAMINATION DUE TO
*			UT: 70	NDE 5.4-3		VALVE CONFIGURATION
			J. 10		••	4414 7744

\*\*UT-33\*\*



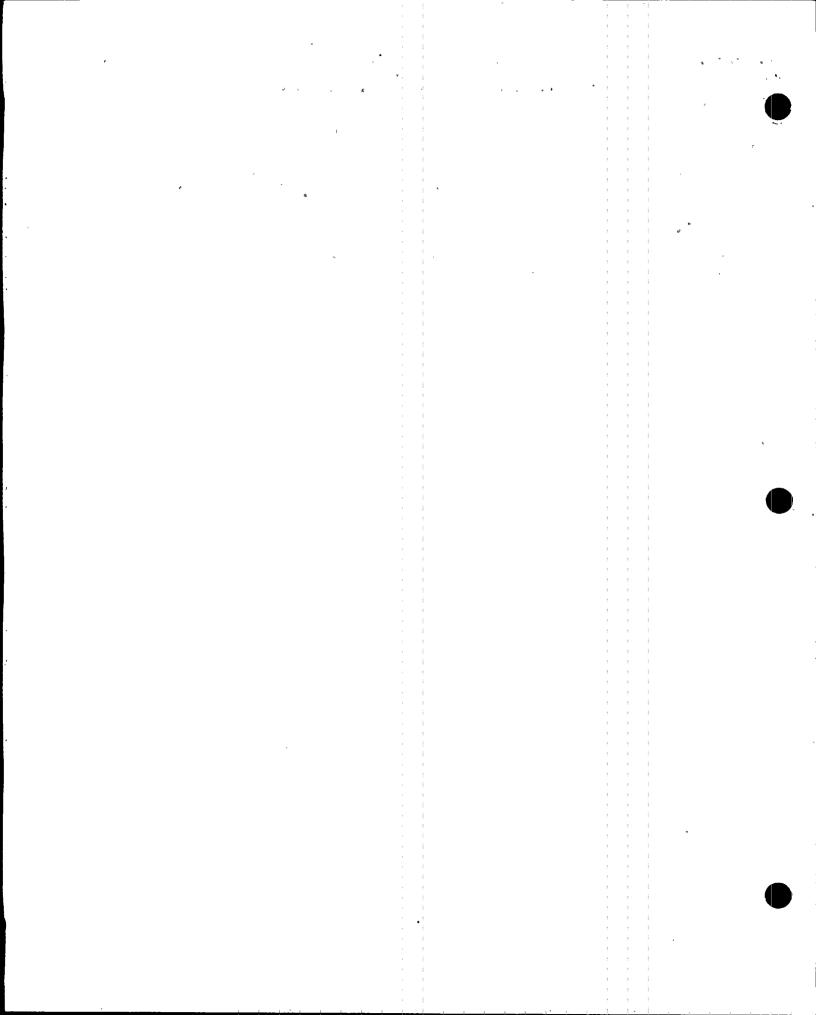
DATE: 12/15/95 REVISION: 0

TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS-2 CAEPOBL STATUS COMPONENTS

RESIDUAL	HEAT	REMOVAL	FROM	CONTAINMENT	SUMP_B

MES I DON	L REAL REMUVAL FROM CONTAINMENT	SUMP_B				e-
					NI O	
ZONE NU	HBER: 3-067	ASHE			ONG.T	•
		SEC. XI		1	RSEH	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		EIOE	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	HETHOD	PROCEDURE	CGHR	**CALIBRATION BLOCK**
					• • • •	
		_		•		
	REF. DWG. NO. 5613-P-600-S SH	<u>. ²</u>				
223800	14"-RHR-2306-4	C-F-1	PT	NDE 3.3-3	X	8/24/95 - PT AND UT COMPLETE, ONE
	VALVE MOV-3-860B TO PIPE	C5.11	UT 45	NDE: 5.4-3	x	ACCEPTABLE ROUND INDICATION, ROOT
			UT 60	NDE 5.4-3	- <del>-</del> x -	GEOMETRY, LIMITED EXAMINATION DUE TO
			UT 70	NDE 5.4-3	x	VALVE CONFIGURATION,
						**UT-33**
223820	14"-RHR-2306-4LD	C-F-1	PT	NDE 3.3-3	x	8/24/95 - PT AND UT COMPLETE
	LONGITUDINAL SEAM WELD	C5.12	UT 45	NDE 5.4-3	x	
	DOWNSTREAM.					
						**UT-33**
						01-33
224200	SR-256	F-A	VT-3	NDE 4.3-2	X	8/24/95 - VT-3 COMPLETE, INADEQUATE
	DOUBLE ACTING RESTRAINT	F1.20B	CR	95-780		THREAD ENGAGEMENT, ACCEPTED AS-IS BY
						ENGINEERING EVALUATION,

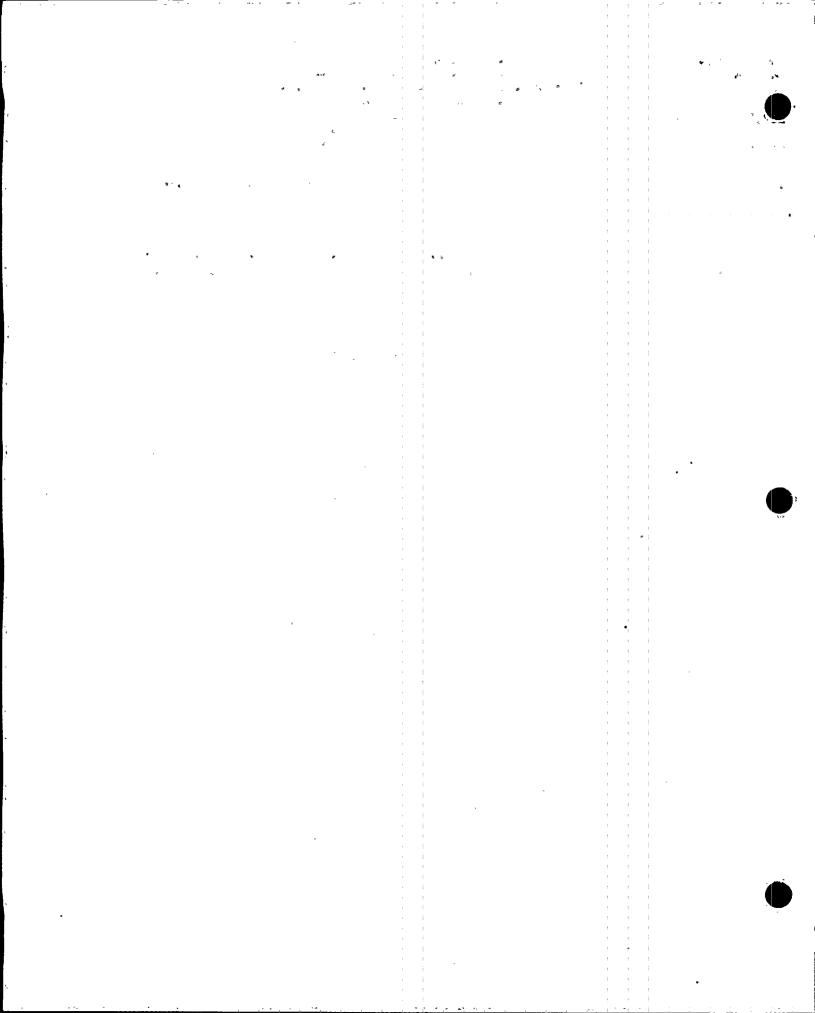


PAGE:

TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 2 CAEPOBL STATUS COMPONENTS

IDUAL	HEAT	REMOVAL	INSIDE	&	OUTSIDE	CONTAINMENT
~.~~		1141101114			<del></del>	0.01111111111111

			•		NI O	
ZONE NU	MBER: 3-069	ASHE			O'N G T	
		SEC. XI			RSEH	
SUMMARY	EXAMINATION AREA	CATGY	EXAM		E I O'E	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	CGMR	**CALIBRATION BLOCK**
					• • • •	
	REF. DWG. NO. 5613-P-602-S SH	<u>. 1</u>				
228400	12"-RHR-2302-1	C-F-1	PT	NDE 3.3-4	x	8/31/95 - PT AND UT COMPLETE
	REDUCER TO PIPE	C5.11	UT 45	NDE 5.4-1	X	
			UT 60	NDE 5.4-1	x	
						**UT-35**
228800	12"-RHR-2302-4	C-F-1	PT	NDE 3.3-4	x	8/31/95 - PT AND UT COMPLETE, INSIDE
	TEE TO PIPE			NDE 5.4-2		SURFACE GEOMETRY
			UT 60	NDE 5.4-2	x -	
						**UT-35**
229200	12"-RHR-2302-8	C-F-1	PT	NDE 3.3-16	Y	9/18/95 - PT COMPLETE, 9/18/95 - UT
229200		C5.11	UT 45	NDE 5.4-7		COMPLETE, ROOT GEOMETRY
	FLANGE TO PIPE	65.11			X	confest, Root dechetri
			UT 60	NDE 5.4-7		
			UT 70	NDE 5.4-7	X -	44114 7544
						**UT-35**



TURKEY POINT NUCLEAR PLANT UNIT 3

INSERVICE INSPECTION RESULTS FOR THE

PAGE:

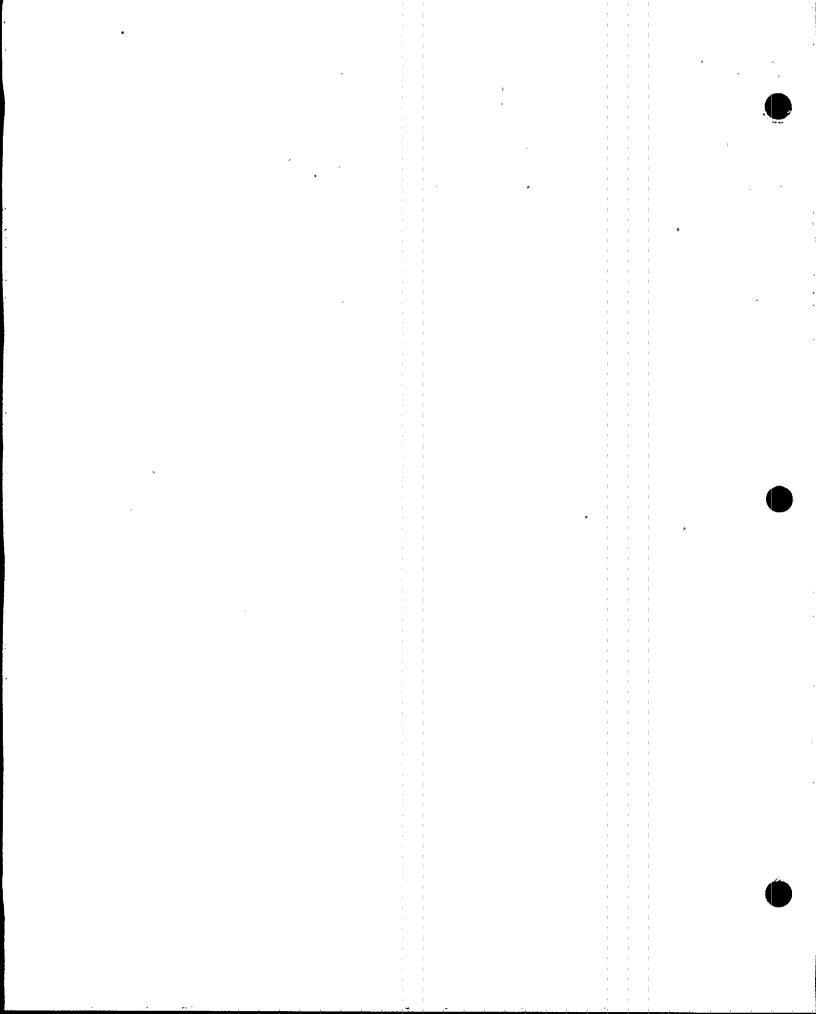
INTEGRAL ATTACHMENT WAS REMOVED

30

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 2 CAEPOBL STATUS COMPONENTS.

H- HEAD	CAFETY	INJECTION	WITSIDE	CONTAINMENT
שאטח חבאט	SAFEII	THISCLION	WISIUE	CONTAINMENT

114 GH _ HG					N. I O	
ZONE NU	MBER: 3-095	ASME			ONGT	
		SEC. XI			RSEH	•
SUMMARY	EXAMINATION PAREA	CATGY	EXAM	-	EIOE	REMARKS
NUMBER	IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	CGHR	**CALIBRATION BLOCK**
	REF. DWG. NO. 5613-P-597-S SH	. 2		r.		
288594	BORON INJECTION TANK TANK SUPPORT	F-A F1.40T	VT-3 .	NDE 4.3-8	x	8/24/95 - VT-3 COMPLETE
	REF. DWG. NO. 5613-P-823-S SH	<u>. 2</u>	•		•	
288723	8080-R-006-01 IA INTEGRAL ATTACHMENTS	·C-C ·C3.20` ,	PT	NDE 3.3-19	x	9/19/95 - PT COMPLETE, ADDITIONAL EXAMINATION PERFORMED DUE TO INDICATIONS FOUND ON 8080-R-007-09
288787	.8080-H-007-09 DOUBLE ACTING RESTRAINT	F-A F1.20B	VT-3 CR VT-3	NDE 4.3-3 95-688 TS 9.9-95024592		9/5/95 - VT-3 COMPLETE, BENT INTEGRAL ATTACHMENT, INTEGRAL ATTACHMENT WAS REMOVED FORM THE PIPE AND THE SUPPORT REDESIGNED, 9/25/95 - VT-3 COMPLETE, NRI ON REDESIGNED SUPPORT
288790	8080-H-007-09 IA INTEGRAL ATTACHMENTS	c-c 'c3.20	PT CR ·PT	NDE 3.3-12 95-688 TS: 9.5-95024592		9/12/95 - PT COMPLETE, 9 UNACCEPTABLE AND 3 ACCEPTABLE INDICATIONS, ADDITIONAL EXAMINATIONS REQUIRED, INTEGRAL ATTACHMENT WAS REMOVED FROM PIPE, 9/25/95 - PT COMPLETE, NRI ON AREA WHERE



ZONE NUMBER: 3-096

TURKEY POINT NUCLEAR PLANT UNIT 3 INSERVICE INSPECTION RESULTS FOR THE

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)

PAGE:

31

CLASS 2'CAEPOBL STATUS COMPONENTS

H PRESSURE SAFETY INJECTION OUTSIDE CONTAINMENT

N I O ASME ONGT

SEC. XI RSEH

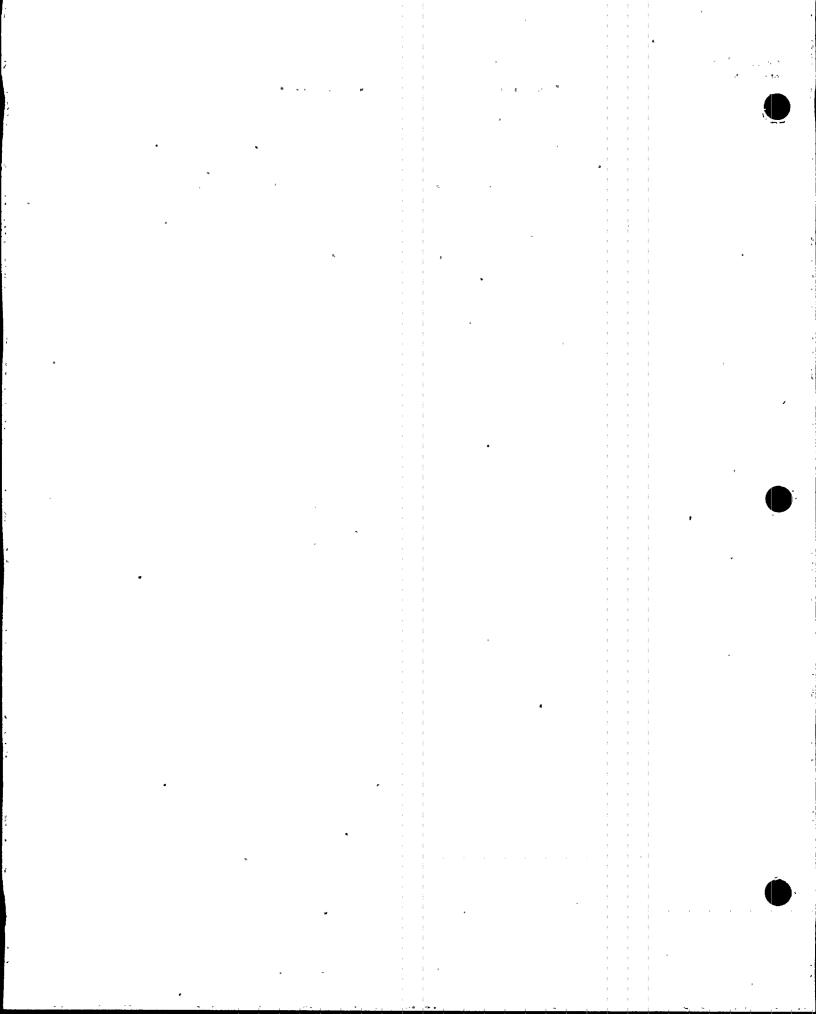
CATGY EXAM E I O E REMARKS SUMMARY EXAMINATION AREA

ITEM NO METHOD PROCEDURE C G M R \*\*CALIBRATION BLOCK\*\* NUMBER IDENTIFICATION

REF. DWG. NO. 5613-P-597-S SH. 3

289063 °C F-A VT-3 NDE 4.3-9 X - - - 8/24/95 - VT-3 COMPLETE

F1.20A SINGLE ACTING RESTRAINT



TURKEY POINT NUCLEAR PLANT UNIT 3

INSERVICE INSPECTION RESULTS FOR THE

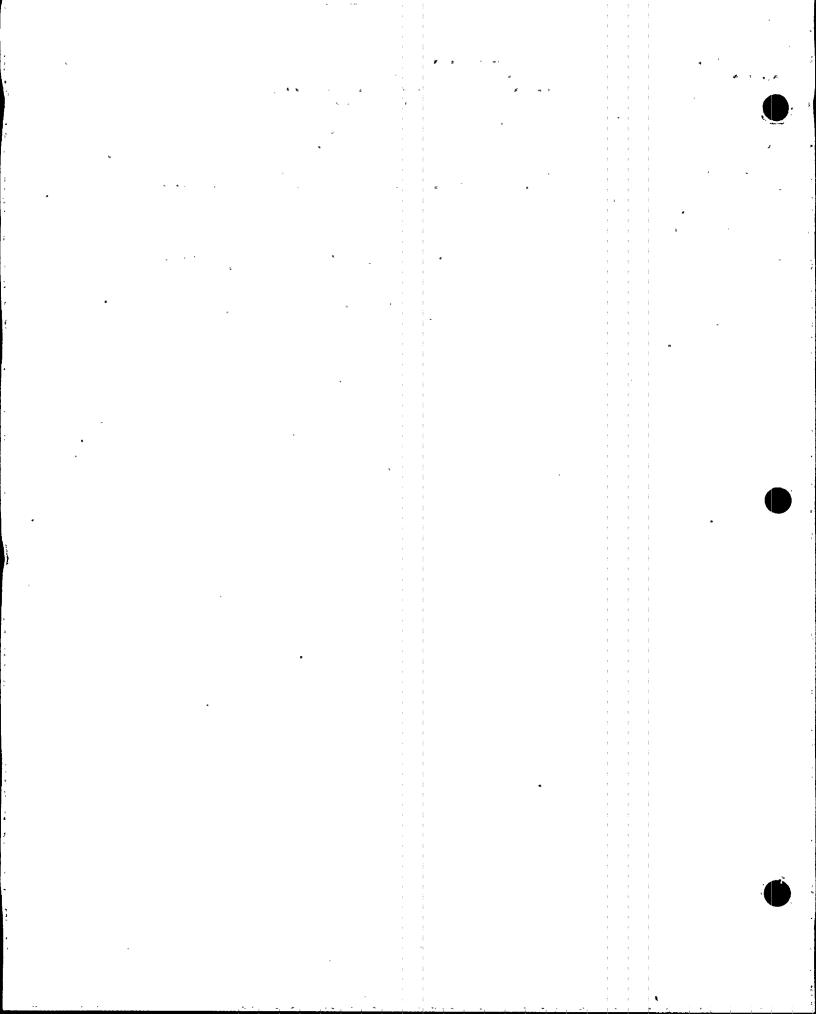
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)

CLASS 2 CAEPOBL STATUS COMPONENTS

N STEAM SYSTEM LOOP B OUTSIDE CONTAINMENT

N'I O ONGT ZONE NUMBER: 3-101 ASME RSEH SEC. XI E I O E REMARKS CATGY EXAM SUMMARY EXAMINATION AREA C-G M R \*\*CALIBRATION BLOCK\*\* NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE REF. DWG. NO. 5613-P-654-S SH. 2 X - - - 9/29/95 - MT COMPLETE C-F-2 MT. NDE 2:2-7 305500 26"-MSB-2305-12 C5.81 6" WELDOLET - - - X 9/29/95 - MT COMPLETE, 2 ACCEPTABLE 305900 26"-MSB-2305-14 C-F-2 MT NDE 2.2-6 C5.81 LINEAR INDICATIONS 12" WELDOLET

PAGE: 32



ZONE NUMBER: 3-109

TURKEY POINT NUCLEAR PLANT UNIT 3
INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)

PAGE:

33

CLASS 2 CAEPOBL STATUS COMPONENTS

N FEEDWATER SYSTEM LOOP A

NIO
ASHE ONGT
SEC. XI RSEH

SUMMARY EXAMINATION AREA CATGY EXAM E I O E REMARKS

NUMBER IDENTIFICATION. ITEM NO METHOD PROCEDURE C G M R \*\*CALIBRATION BLOCK\*\*

REF. DWG. NO. 5613-P-817-S SH. 4

327300 144-FWA-2301-2A C-F-2 HT NDE 2.2-5 X - - - 9/27/95 - HT COMPLETE

6" WELDOLET C5.81

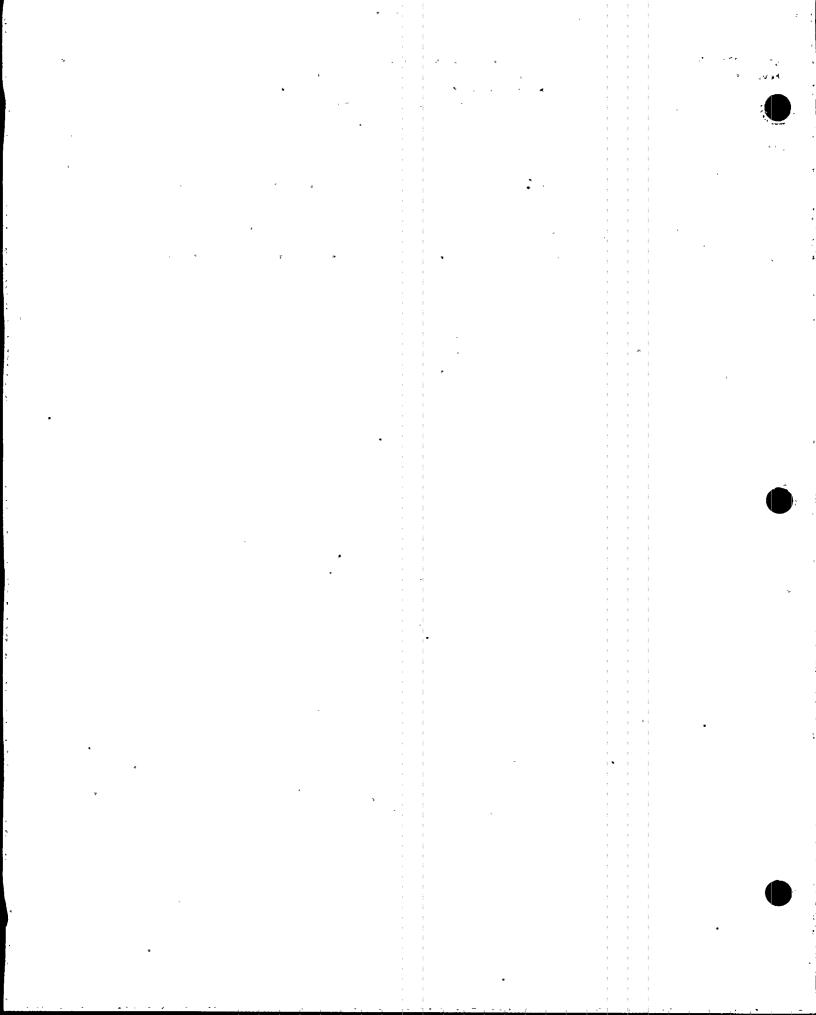
REF. DWG. NO. 5613-P-651-S SH. 1

330500 AUGMENTED EXAMINATION AUG UT NDE 5.16-1 - - X X 9/15/95 - UT COMPLETE, ROOT GEOMETRY AND

FROM NOZZLE RAMP TO 1 DIAMETER ACCEPTABLE SLAG INDICATIONS

ON ELBOW

\*\*UT-20, UT-29\*\*



TURKEY POINT NUCLEAR PLANT UNIT 3
INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 2 CAEPOBL STATUS COMPONENTS

PAGE: 34

N FEEDWATER SYSTEM LOOP B

ZONE NUMBER: 3-110 ASME ONG T SEC. XI R S E H

SUMMARY EXAMINATION AREA CATGY EXAM E I O E REMARKS

NUMBER IDENTIFICATION ITEM NO METHOD PROCEDURE C G M R \*\*CALIBRATION BLOCK\*\*

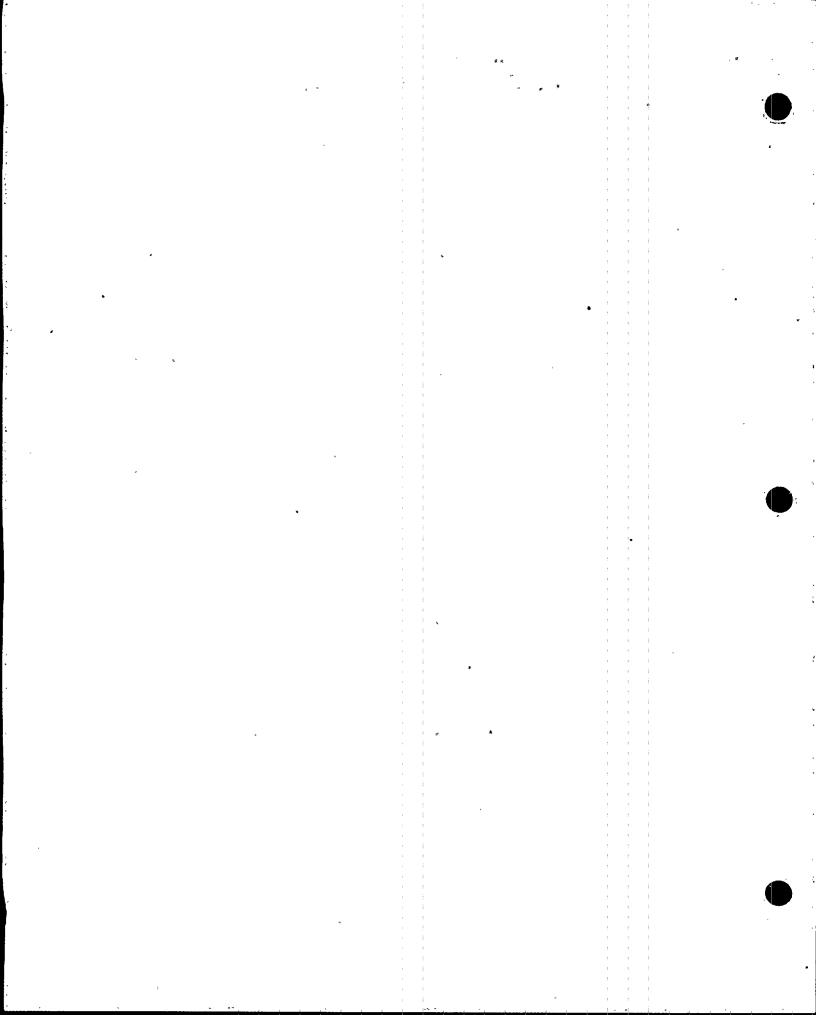
REF. DWG. NO. 5613-P-652-S SH. 1

333800 AUGMENTED EXAMINATION AUG UT NDE 5.16-2 - - X X 9/13/95 - UT COMPLETE, ROOT GEOMETRY AND

FROM NOZZLE RAMP TO 1 DIAMETER BACKING RING

ON ELBOW

\*\*UT-20, UT-29\*\*



ZONE NUMBER: 3-111

TURKEY POINT NUCLEAR PLANT UNIT 3
INSERVICE INSPECTION RESULTS FOR THE
THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)

PAGE:

35

CLASS 2 CAEPOBL STATUS COMPONENTS

N FEEDWATER SYSTEM LOOP C

ASHE ONGT

SEC. XI R S E H
CATGY EXAM E I O E REMARKS

NUMBER IDENTIFICATION 1TEM NO METHOD PROCEDURE C G.M.R \*\*CALIBRATION BLOCK\*\*

REF. DWG. NO. 5613-P-178-S SH. 1

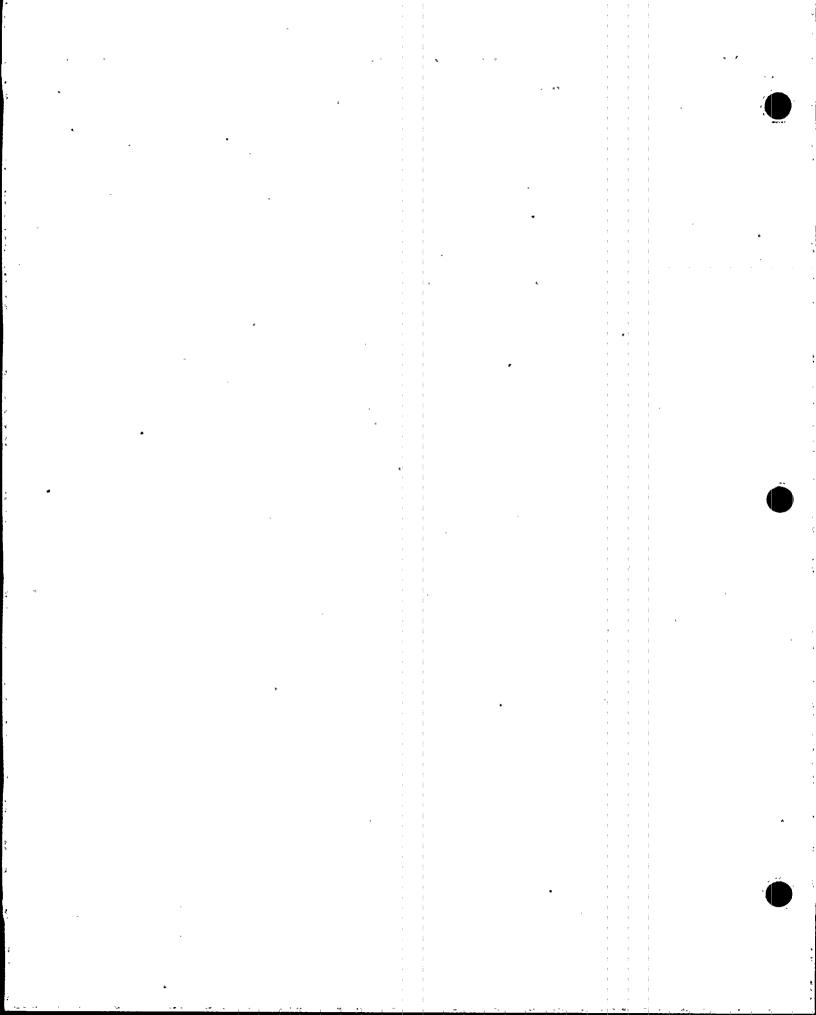
338200 AUGMENTED EXAMINATION AUG UT NDE 5.16-3 - - X X 9/13/95 - UT COMPLETE, ROOT GEOMETRY AND

FROM NOZZLE RAMP TO 1 DIAMETER BACKING RING

ON ELBOW

SUMMARY EXAMINATION AREA

\*\*UT-20, UT-29\*\*



TURKEY POINT NUCLEAR PLANT UNIT. 3 INSERVICE INSPECTION RESULTS FOR THE PAGE:

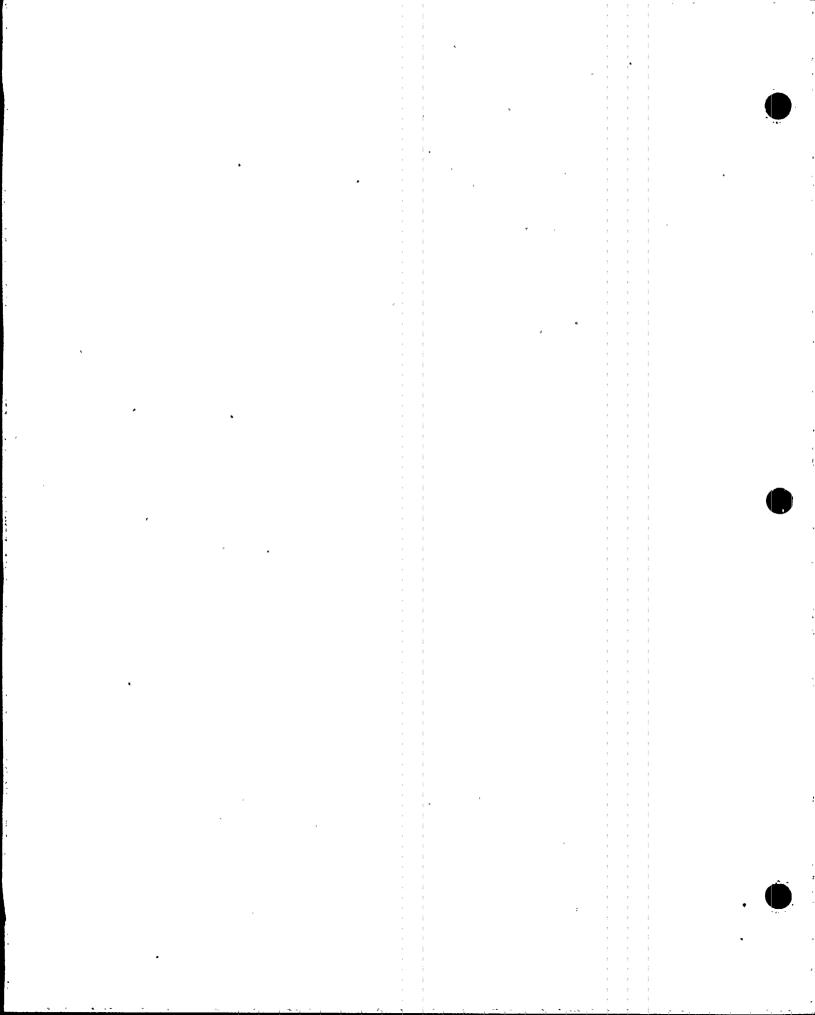
36

THIRD INTERVAL, FIRST PERIOD, SECOND OUTAGE (95RF)
CLASS 2 CAEPOBL STATUS COMPONENTS

N FEEDWATER BYPASS LOOP A

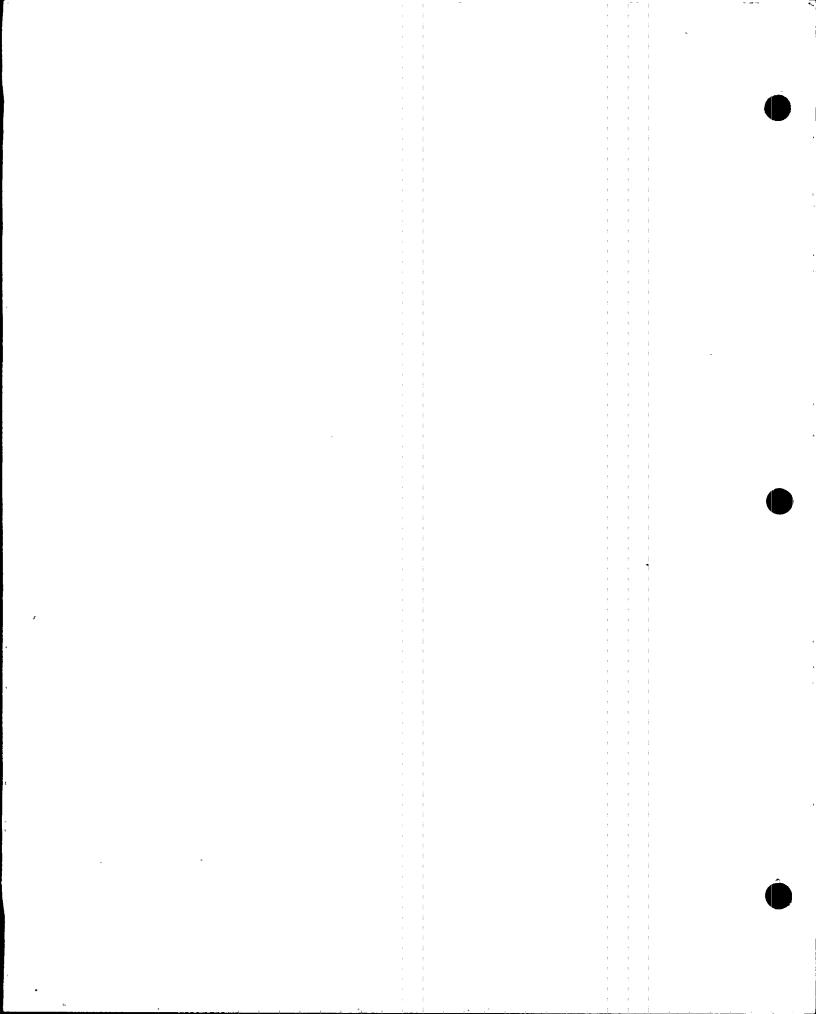
				N I. O	The state of the s
ZONE NUMBER: 3-112	ASME			ONGT	•
	SEC. XI			RSEH	
SUMMARY EXAMINATION AREA	CATGY.	EXAM:		EIOE	REMARKS
NUMBER IDENTIFICATION	ITEM NO	METHOD	PROCEDURE	C-G H R	**CALIBRATION BLOCK**
			***************************************		
REF. DWG. NO. 5613-P-817-S	SH. 4				
338500 6"-FWA-2301-2	C-F-2	MT	NDE 2.2-3	x	9/22/95 - UT COMPLETE, ROOT GEOMETRY,
REDUCER TO VALVE 3-20-131	C5.51	UT 45	NDE 5.2-1	x	'9/25/95 - HT COMPLETE
		UT 60	NDE 5.2-1	x -	
	•	HT 70	NDE 5 2-1	Y -	

\*\*UT-23\*\*



#### TURKEY POINT UNIT 3 1995 REFUELING OUTAGE

Form NIS-BB Owners: Data Report for Eddy Current Examinations



Page 1 of 1

### FORM NIS-BB OWNERS' DATA REPORT FOR EDDY CURRENT EXAMINATION RESULTS As required by the provisions of the ASME CODE RULES

#### **EDDY CURRENT EXAMINATION RESULTS**

PLANT: Turkey Point Unit 3

EXAMINATION DATE: SEPTEMBER 14, 1995 thru SEPTEMBER 19, 1995

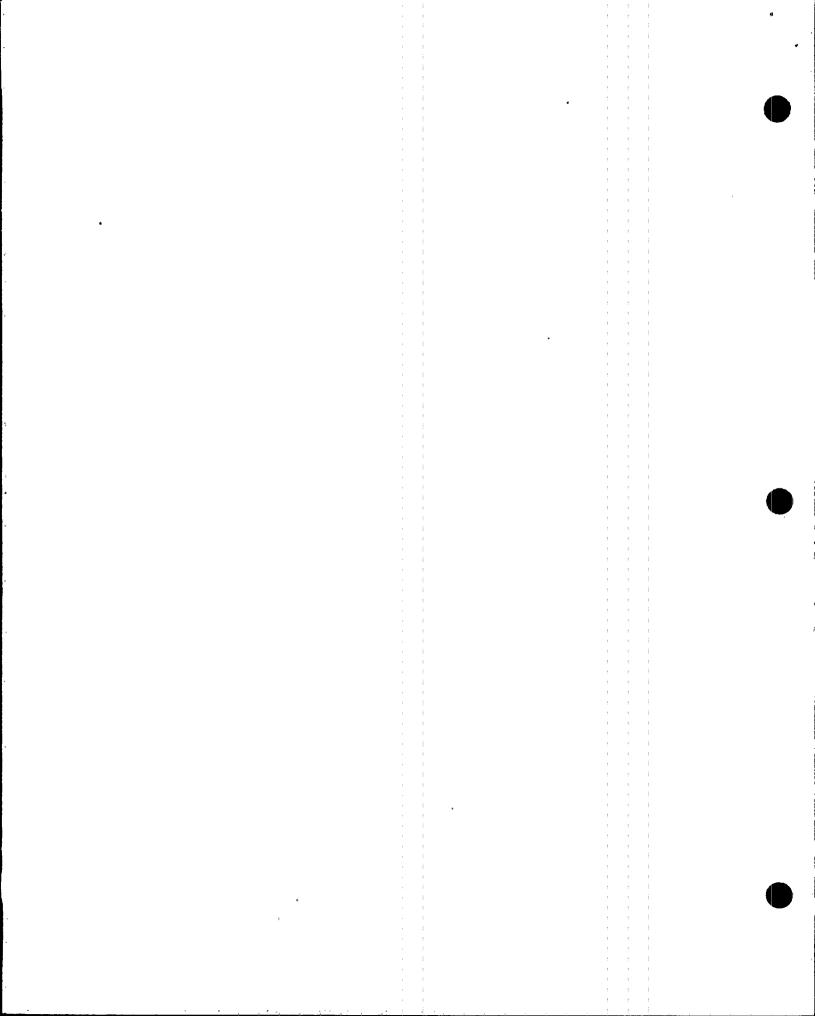
	STEAM	TOTAL TUBES	i -	DTAL BES	TUBES PLUGGED AS PREVENTIVE	TUBES PLUGGED THIS	TOTAL PLUGGED TUBES
	GENERATOR	INSPECTED	20% - 39%	40% - 100%	MAINTENANCE	OUTAGE	IN S/G
	3E210A	3197	, 20	NONE	NONE	NONE	17
	3E210B	3198	35	2	NONE	2	18
1	3E210C	3181	30	NONE	NONE	NONE	33

### LOCATION OF INDICATIONS (20% - 100%)

TOP OF TUBE SHEET TO #1 SUPPORT SUPPORT LOCATIONS FREESPAN TOTAL 6H thru 6C INDICATIONS 1 THROUGH 6 **STEAM** AVB 40% TO 100% COLD LEG HOT LEG **UBEND** C/L H/L 20% - 39% BARS **GENERATOR** NONE. NONE 3E210A 4 1 5 21 5 6 2 8 41 8 10 6 3 8 3E210B 47 NONE 33 3 9 1 NONE 3E210C 1

Remarks:

DATE:	PREPARED BY: Mintalbane (1. SIGNEDDY CURRENT COORDINATOR
DATE: ////5/95	$(1)_{\alpha}$
	REVIEWED BY: INSPECTIONS SUPERVISOR REVIEWED BY: Jan & Boyes SIG TECHNICAL SPECIALIST
DATE:	S/G TĚCHNICAL SPÉCIALIST

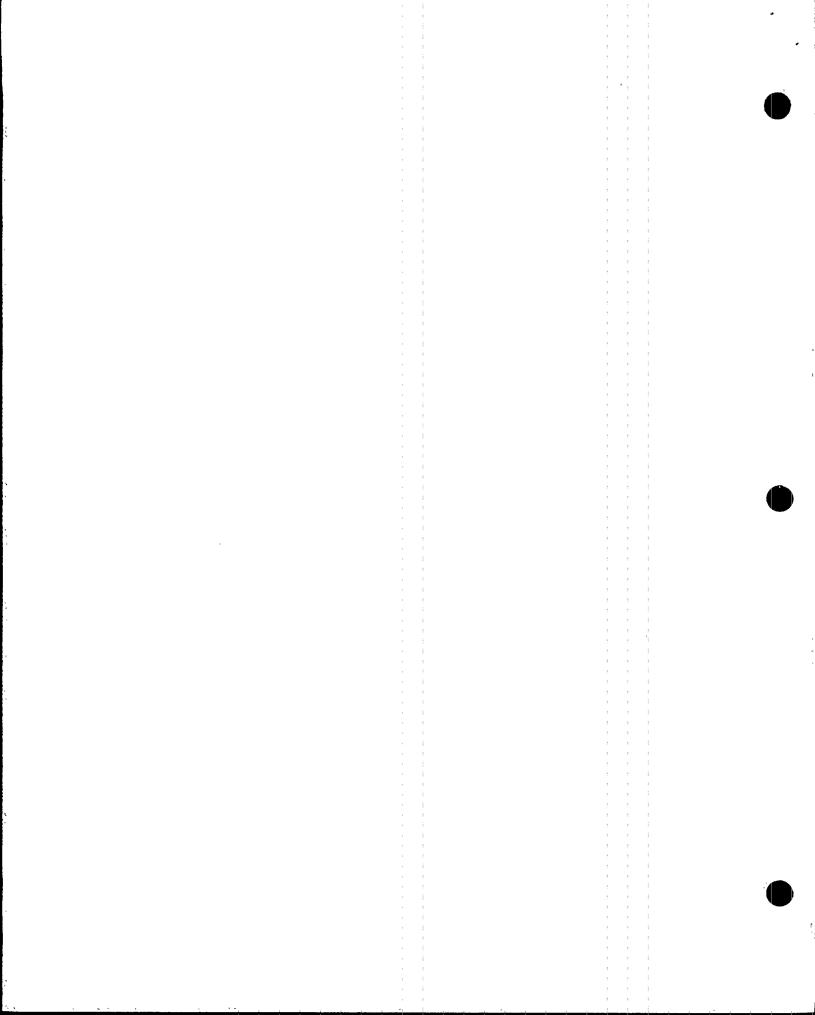


# CUMULATIVE DISTRIBUTION SUMMARY TURKEY POINT UNIT # 3 09/95

COMPONENT : S/G A	Page : Date :	1 11/15/95
Examination Dates: 09/14/95 thru 09/19/95		
Total Number of Tubes Inspected: 3197		
Total Indications  Between 20% and 39%		
Total Tubes Plugged as Preventive Maint: 0 Total Tubes Plugged		

#### Location Of Indications 20% to 100%

H	ot Leg					Cold	d Le	e <b>g</b>			
TSH	5 to 01	H -2.1	:	5	TSC	5	to	01C	-2.1		0
01H -2	.0 to 06	H +2.0	:	6	01C	-2.0	to	06C	+2.0	:	4
06H +2	.1 to AV	1 -3.1	:	1	06C	+2.1	to	AV4	-3.1	:	0
AV1 -3	.o to AV	4 -3.0	:	5							



#### INDICATIONS/TRENDING REPORT PTN-3

OUTAGE : 09/95

COMPONENT : S/G A

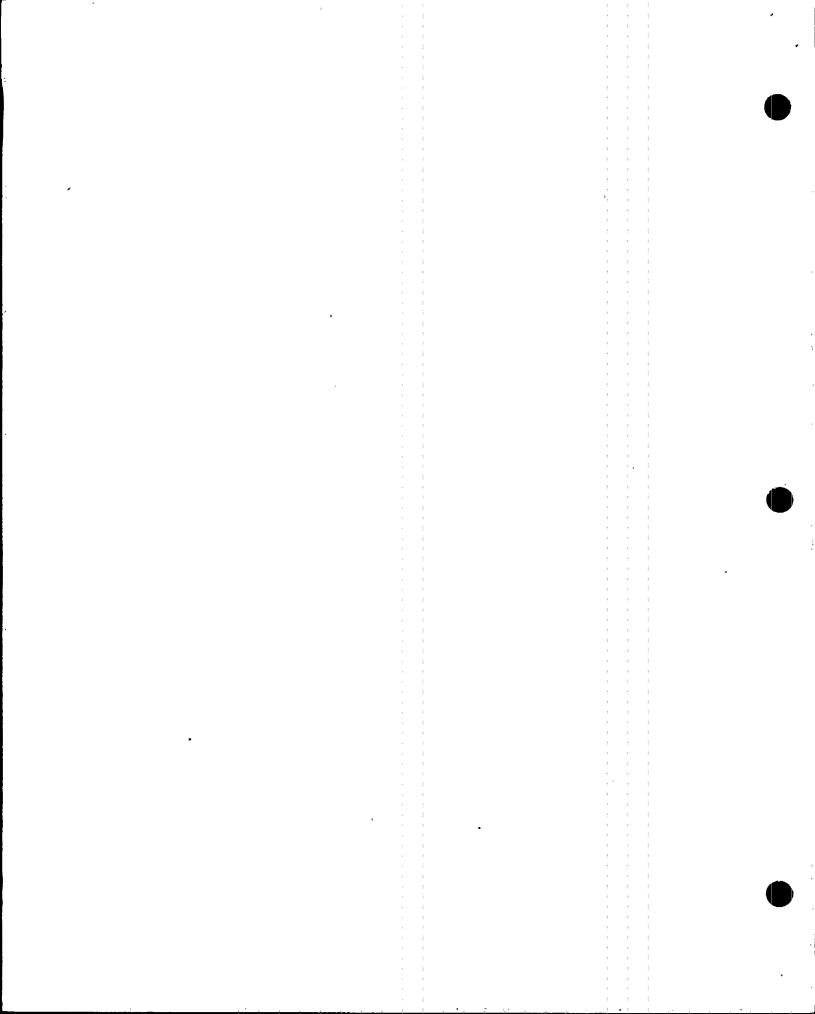
DESCRIPTION: 20% to 39%

Page: 1 Date: 10/ 3/95 Time: 15:02:59

+																			+
1		•	Ext	tent				1		.09/95					N/A	_	_		ļ
Row	Col	Leg	Req	Tst/	Note	Reel-	Probe	Lo	cation	Vol ts	Deg	Ch	*	Diff	Location	Volts	Deg	Ch	<b>%</b>
+										<b> </b>								[]	+
13	5	C	TEH	TEH		AC008	A-720-H/ULC	TSH	3.8	•	151		27	1		1	ļ		
14	7	C	TEH	TEH	PS	AC007	A-720-M/ULC	TSH	3.9	.3	152	1	27	1 1			l		
12	9	C	TEH	HBT	SS	AC008	A-720-H/ULC	04C	47.9	[ .3	153	1	22	1 .		1	]		
1. 33	15	C	TEH	TEH	SS	AC016	A-720-M/ULC	TSH	.6	.5	94	1	29			ļ	I		'
1 4	20	C	TEH	TEH	SS	AC011	A-720-H/ULC	[01C	32.4	.3	149	1	29			l	l		
40	27	C	TEH	TEH	PS	AC023	A-720-H/ULC	04H	6.1	.3	151	1	28			1	1		
33	40	C	TEH	TEH	GNPL	AC020	A-720-M/ULC	05C	2.4	.4	139	1	34			1	l		
33	41	·C	TEH	TEH	PS	AC020	A-720-H/ULC	AV1	.0	8.	•	P 2	25			ļ	l		
38	45	C	TEH	TEH	PS	AC019	A-720-H/ULC	AV2	.0	1.5	l	P 2	,	1		l	1	[	
Ì	1 1	C	TEH	TEH	PS	AC019	A-720-H/ULC	AV3	.0	.7	٠	P 2	25	1		l	Į		
37	47	C	TEH	TEH	PS	AC045	A-720-H/ULC	AV3	.0	1 .6	1	P 2	24			i	İ		[ ]
22	52	C	TEH	TEH		AC038	A-720-H/ULC	04H	40.6	1.3	139	1	37	1		l	l	1 1	
28	59	С	TEH	TEH	PS	AC044	A-720-H/ULC	AV2	.0	1 .6	1	P 2	22	1		l	l	1	
j 38	65	C	TEH	TEH		AC047	A-720-H/ULC	AV3	.0	.4	ł	P 2	20	1		l	1		l l
20	68	С	TEH	TEH		AC041	A-720-H/ULC	04H	42.2	.4	151	1	29	1		l	1		l ļ
30	69	C	TEH	TEH	PS	AC044	A-720-H/ULC	03H	1.4	.5	146	1	28	ŀ		l	l	1	il
j 10	75	C	TEH	TEH	PS	AC053	A-720-M/ULC	04H	44.7	.4	139	1	35	1	i	I	l		l i
j 9	76	С	TEH	TEH	PS	AC052	A-720-M/ULC	02C	16.4	1.4	146	1	27	1	İ	ì	i	1 ,	1
j 33	78	С	TEH	TEH		AC047	A-720-H/ULC	TSH	.7	.6	151	1	28	1	1	1	l	i	1 1
j 18		С	TEH	TEH		AC049	A-720-H/ULC	[01H	4.9	.2	135	1	39	·I	<b>l</b>	i	1	1	
22	•	C	TEH	TEH		AC049	A-720-H/ULC	•	12.2	.3	145	j 1	30	i i	1	i		i	
•			i	j		j	į	· j		j	j			<b> </b>	<b>-</b>		<b> </b>	1	+

Number of RECORDS Selected from Current Outage : 21

Number of TUBES Selected from Current Outage :



# CUMULATIVE DISTRIBUTION SUMMARY TURKEY POINT UNIT # 3 09/95

41

COMPONENT: S/G B

Page: 1
Date: 11/15/95

Examination Dates: 09/14/95 thru 09/19/95

Total Number of Tubes Inspected ....: 3198

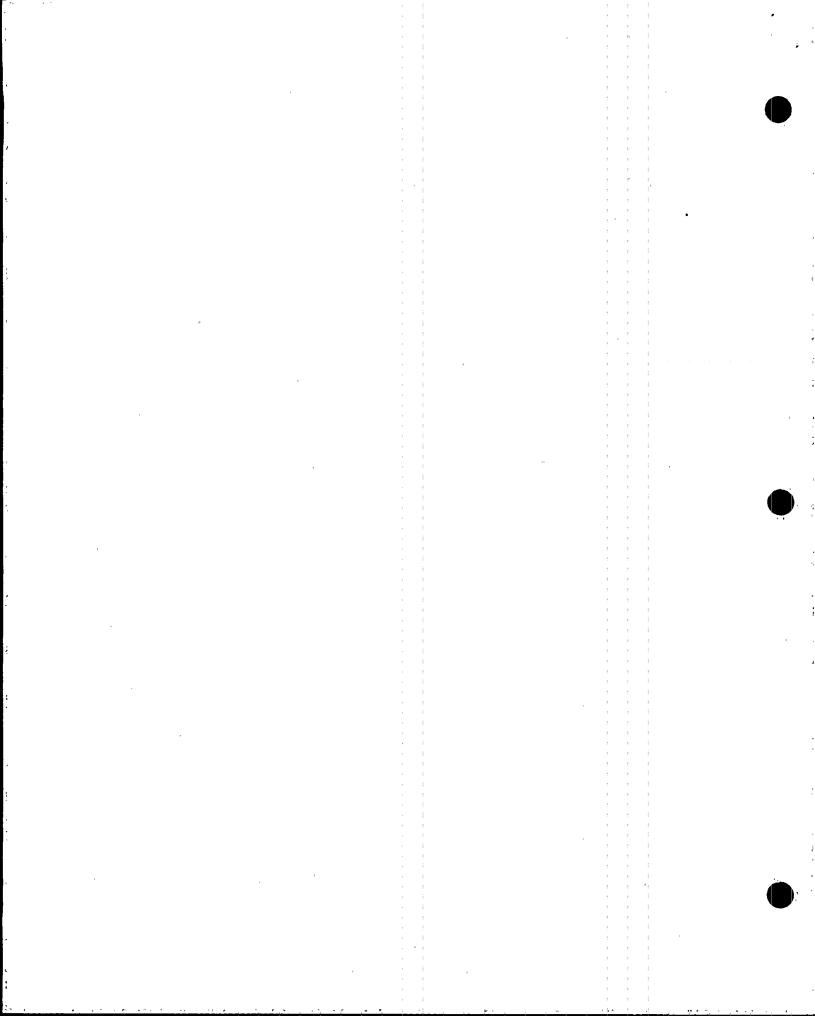
Total Indications

Between 20% and 39% .....

Greater than or equal to 40% ...:

#### Location Of Indications 20% to 100%

Hot	Lec	3					Col	d Le	eg			
TSH5	to	01H	-2.1	•	8	TSC	5	to	01C	-2.1	:	3
01H -2.0	to	06H	+2.0	:	8	01C	-2.0	to	06C	+2.0	:	10
06H +2.1	to	AV1	-3.1	:	4	06C	+2.1	to	AV4	-3.1	:	2
AV1 -3.0	to	AV4	-3.0	:	8			1				



#### INDICATIONS/TRENDING REPORT PTN-3

OUTAGE : 09/95

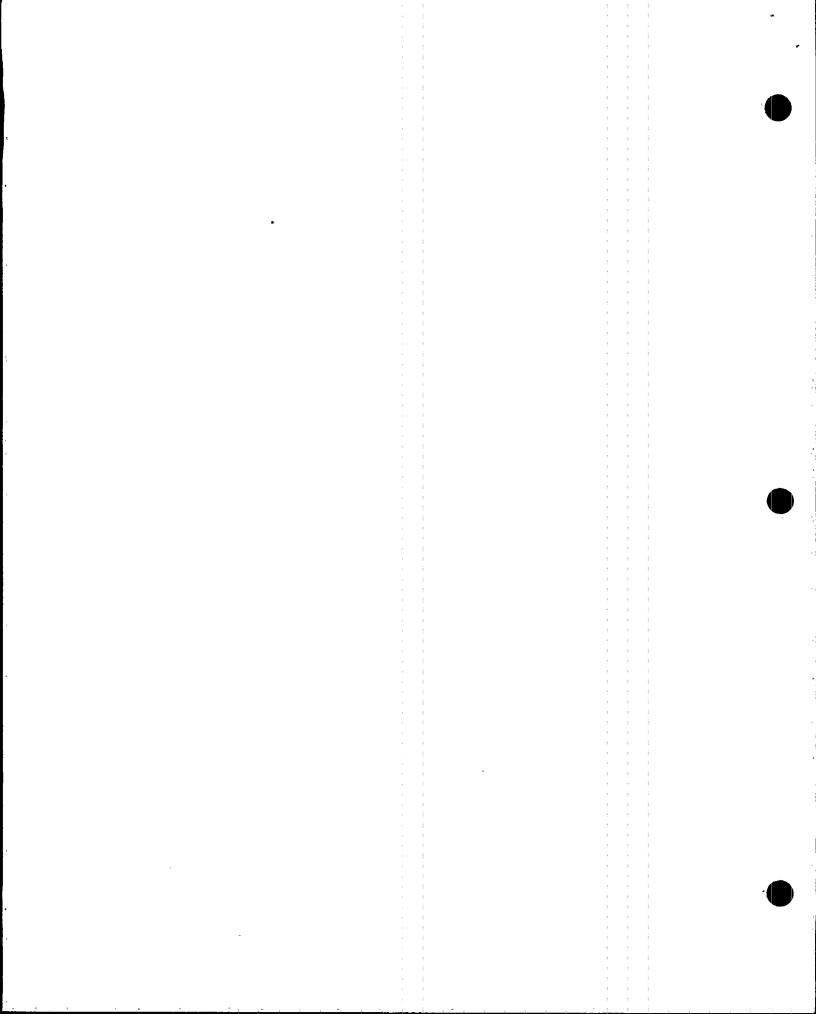
COMPONENT : S/G B

DESCRIPTION : 20% to 39%

Page: 1 Date : 10/ 3/95 Time: 15:17:24

+																				+
1			1	Ext					l		09/95	_				N/A				!
Row	Col	Le	9	Req	Tst/	Note	Reel	Probe	l Lo	cation	Volts	: :			Diff	Location	Volts	Deg	Ch	<b>%</b> [
+			۱-							7/ 4	:	  450					[]	!		1
11	: .	:	:	- :				A-720-H/ULC	•	32.0	Ī :	150   148			: :		1 1		¦	i
10	:	:	:	TEC				A-720-H/ULC A-720-H/ULC		31.8		148   157			: :		1 1	i	i	i
10	•	:	•	TEC			4	A-720-H/ULC	: .	15.0	•	148			: :		i i	i	i	i
23	:	:	- :	TEH				A-720-H/ULC	•	31.1	•	144			: :		i i	i	i	i
-		:		TEH				A-720-M/ULC	-	7.7	:	148			: :		i i	i	į	İ
11	10	: .	•	TEC				A-720-H/ULC	•	36.6	•	151			: :		į į	İ	ĺ	ĺ
23	:	•	•	TEH !			•	A-720-H/ULC	7	4.0	•	150		31	i i		1	1	1	. [
•	11	İH	ij	TEC	TEC	PL	BH012	A-720-H/ULC	02C	32.0	.4	152	1	31	1 1		1 1	l	I	. 1.
11	11	1 +	ij	TEC	TEC	PS	ВН018	A-720-M/ULC	02C	36.8	.5	155	1	26			ļ ļ	ı	Į	I
18	12	1 1	1	TEC	TEC	PS	ВН018	A-720-H/ULC	05H	20.0	.5	158	1	24	[ ]		!!!	- 1	ļ	į
26	20	10	:	TEH	TEH		•	A-720-H/ULC	:	.0	.4		P 2		: :	1	!!!	. !	ļ	ļ
40	25	•	•	TEC				A-720-M/ULC		38.8	:	159			: :		!!!	ŀ	· ¦	
32	34	:	:	TEC			•	[A-720-M/ULC	:	.0	.5	: :	P 2		: :		.    		. I	
!	ļ	•	•	TEC			:	A-720-H/ULC		.0	.9	: :		30	-					i i
44	   70	•	- :	TEC			•	A-720-H/ULC	•	.0 12.2	.5	145	P 2	<i>21</i>   29	: :		; ;		i	. i
:	38			TEH			BC030  BH019	A-720-H/ULC  A-720-H/ULC		.0	.4	: :		, <i>-,</i>   22	: :		1	i	i	i
1 34	38 1	-		TEC			BH019	A-720-H/ULC	:	.0	2.6	•	P 2	•		i	i i	i	i	i
   42	;   38	•		TEH			•	A-720-H/ULC	:	1.5	•	142	•		: :		i i	ii	i	ı i
1 72	30 	:		TEH			:	A-720-H/ULC	:	3.5	Ĭ	151	:	•	•		i i	i	i	i
1 11	39	•		TEH			•	A-720-H/ULC	•	12.2	•	156	•	: .	•		i i	i i	į,	i
•	42	-	- 1	TEH			BC029	A-720-H/ULC		.0	.4		P 2	:	•		j i	i i	i	İ
•	•	•		TEH			BC030	A-720-H/ULC	:	49.5	•	142	•	:	i	İ	i i	İÌ	į	
6	:	:		TEH			BC031	A-720-H/ULC	•	39.3		148		31	i	į	1	ĺ	1	1
34	:	i i		TEC			Вно20	A-720-H/ULC	•	.0	1.2	7	P 2	29	Ì	İ	1 1	1 1	- 1	
i	i	i		TEC			Вн020	A-720-H/ULC	AV3	.0	2.0		P 2	36	1	ĺ				! <b>!</b>
j 34	j 51	ij.	ij	TEC	TEC	PS	ВН021	A-720-H/ULC	AV2	.0	1.7	1	P 2	31					٠	
j 45	j 52	<u>:</u>   1	łÌ	TEC	TEC		ВН021	A-720-M/ULC	TSH	.7	1.7	162	1	24		l		ll		
42	55	i i	1	TEC	TEC	PC	BH020a	A-720-H/ULC	[AV3	.0	1.9	1	P 2	35	l	!	1			
44	57	۱ <b>۱</b> ۲	1	TEC	05H	PS	BH020a	A-720-H/ULC	TSH	.7	2.0	166	1	21	1	j				
37	59	1	1	TEC	TEH	PC	BC013	A-720-H/ULC	05H	7.0	1 .4	159	1	24	1	1	Į į		ļ	
43	60		1	TEC	05H	PS	BH021	A-720-H/ULC	TSH	.7	•	158	-	28			1 ,			!!
27	70	) į	:	TEH	TEH	PS	BC035	A-720-H/ULC	06H	4.4	.6	151	1	30	l	Į.		ļ ļ	. ]	ļ ļ
20	81	1	:	TEH	TEH	RS	BC035	A-720-H/ULC	-	.7		134				ļ	Į į	ļ ļ		!!
29	81		:	TEH	TEH		BC036	A-720-H/ULC		15.8	-	144		•	-	Į.	!	!!		
				TEH			BC036	A-720-M/ULC			-	80	-	35	•	!	!	! !		
				TEH			BC035	A-720-H/ULC	1			150	-	30	•	ļ.	!	!!		! !
				TEK			BC035	A-720-M/ULC			-	128		1	_	!	!	!!		
•	•	•		TEH			BC036	A-720-H/ULC			-	146	-	32	-	!	!	i		
				TEC		PL	ВН015	A-720-H/ULC	ITSH	.7	1 .9	152	ļ 1	31	1	1	  -	 		i   [
+		-۱-						1			.1	1	1	1	1	1	.1	1	- <b></b>	1

Number of RECORDS Selected from Current Outage : 41 Number of TUBES Selected from Current Outage: 35



#### INDICATIONS/TRENDING REPORT

PTN-3 OUTAGE : 09/95

COMPONENT : S/G B

DESCRIPTION : 40% to 100%

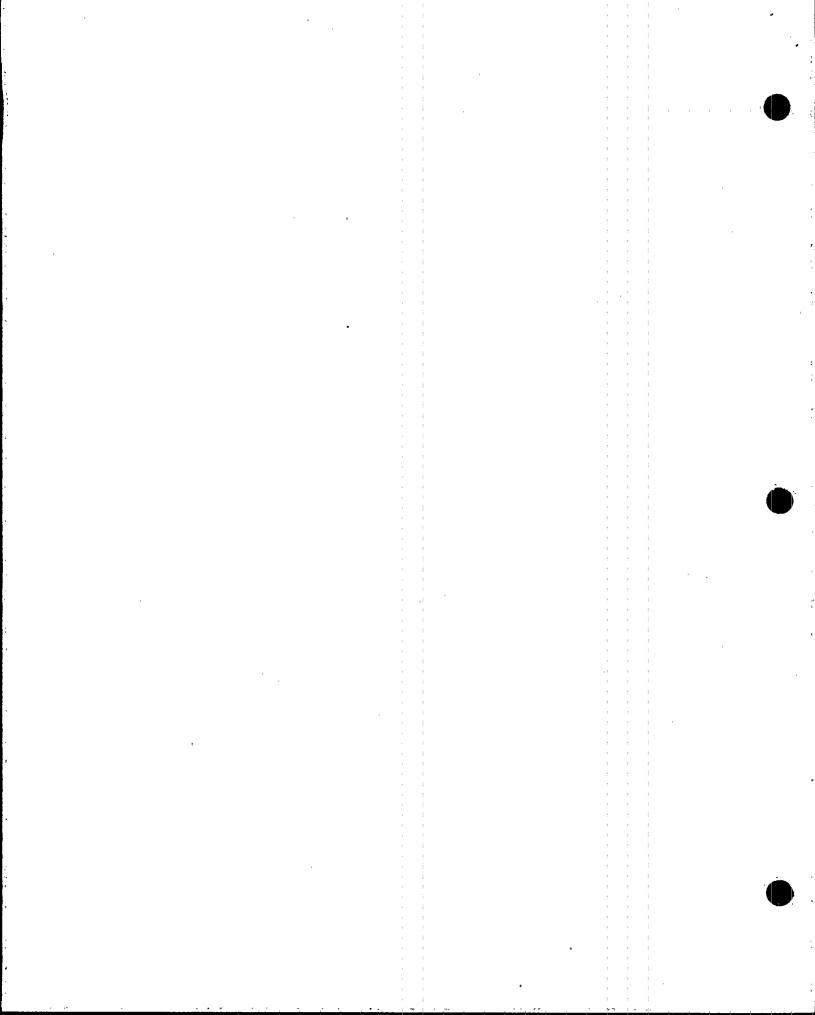
Page: 1

Date : 10/ 3/95

Time : 15:17:56

Extent			09/95	N/A	1
1	Reel Probe			Diff  Location  Vol	lts Deg Ch   %
1 42 37 C   TEH   TEH   BHG		l .	   1.1 134 CHR  44		
34 38 H TECTEC PLIBHO	019 A-720-H/ULC	AV3 .0	3.3   P 2   4	•	iiii
· +				-	·  +

Number of RECORDS Selected from Current Outage : Number of TUBES Selected from Current Outage:



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner FLOR	RIDA POWER & LIG	HT	0	OateAug. 31, 199	94		
700 Unive	rse Blvd. Juno Be	each, FL 33408	_	Sheet <u>1</u> of	1	<u> </u>	
TUR	Address KEY POINT			, 3			
2. Plont	Name		_	Juit 3	010100	· · · · · · · · · · · · · · · · · · ·	
P.0:	BOX 3088, FLORII	OA CITY, FL 330.	<del></del>	PWO: 5031 WO#94		No., Job No. etc.	
3. Work Performe	d by FLORIDA P	OWER & LIGHT	7	Type Code Symbol Sto	omi	N/A	
	Name		_	Authorization No.		N/A	
P.0.	BOX 3088, FLORII	DA CITY, FL 330	34	Expiration Date		N/A	
4. Identification	of System	Componer	nt Coolin	g Water System		Quality Gr	oup C
(b) Applicable	Edition of Section	XI Utilized for Re	pairs or	dition. N/A Ac Replacements 1989, placement Component	Edition,	N/A Coo	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3/4"-10 allthread (6)	N/A	N/A	N/A	3E207B R1J0043	N/A	Replacement	No
3/4"-10 Nuts (6)	N/A	N/A	N/A	3E207B R1J0019 N/A		Replacement	No
	c.			ı	,		
	·					'	
				, e			
						,	
7. Description o	Work Replaced	two (2) bolts wi	th allth	read and six (6) nu	ts on 3	BB CCW Heat Exc	hanger.
·	•						
8. Tests Conduc		Pneumatic psi		ninal Operating Pressu	-	Other X	

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. X 11in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 94-053-3

### FORM NIS-2 (Back)

	g performed.  Data Reports to be attached
	<del></del>
CERTIFICAT	E OF COMPLIANCE
We said the state of the said to the said to the said	eport are correct and this replacement confor
We certify that the statements made in the re to the rules of the ASME Code, Section XI.	
to the rules of the ASME Code, Section Al.	
Type Code Symbol Stamp	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Operation of Authorization No. N/	<u>/A</u> Expiration Date N/A
$\bigcap \mathcal{M}$	
Signed John Matlefit De	we Sh Date 9 /2 . 19 90
Signed John Matteffet De Owner or Owner's Designee, Title	
CERTIFICATE	E OF INSERVICE INSPECTION
	E OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issu	ued by the National Board of Boiler and Pressure Ves
I, the undersigned, holding a valid commission issu	
I, the undersigned, holding a valid commission issu Inspectors and the State or Province of Arkwright Mutual Insurance Compan	ued by the National Board of Boiler and Pressure Ves  Dade County, Florida and employed b  y of Norwood, MA.
I, the undersigned, holding a valid commission issu Inspectors and the State or Province of Arkwright Mutual Insurance Compan	ued by the National Board of Boiler and Pressure Ves  Dade County, Florida and employed b  y of Norwood, MA.
I, the undersigned, holding a valid commission issues Inspectors and the State or Province of  Arkwright Mutual Insurance Companiate inspected the components described in this inspected in the components described in the components.	Dade County, Florida and employed by of Norwood, MA.  Owner's Report during the period Aug. 4, 1994
I, the undersigned, holding a valid commission issues Inspectors and the State or Province of  Arkwright Mutual Insurance Company have inspected the components described in this to	Dade County, Florida and employed by of Norwood, MA.  Owner's Report during the period Aug. 4, 1994  , and state that to the best of my knowledge and believed.
I, the undersigned, holding a valid commission issues Inspectors and the State or Province of  Arkwright Mutual Insurance Company have inspected the components described in this to	Dade County, Florida and employed by of Norwood, MA.  Owner's Report during the period Aug. 4, 1994
I, the undersigned, holding a valid commission issues Inspectors and the State or Province of  Arkwright Mutual Insurance Company have inspected the components described in this to	Dade County, Florida and employed by of Norwood, MA.  Owner's Report during the period Aug. 4, 1994  , and state that to the best of my knowledge and belief corrective measures described in this Owner's Report
I, the undersigned, holding a valid commission issue Inspectors and the State or Province of	Dade County, Florida and employed by of Norwood, MA.  Owner's Report during the period Aug. 4, 1994  , and state that to the best of my knowledge and belief corrective measures described in this Owner's Report
Inspectors and the State or Province of  Arkwright Mutual Insurance Company have inspected the components described in this to  Aug. 31, 1994  the Owner has performed examinations and taken in accordance with the requirements of ASME Cod  By signing this certificate neither the inspector	Dade County, Florida and employed by of Norwood, MA.  Owner's Report during the period Aug. 4, 1994  , and state that to the best of my knowledge and belief corrective measures described in this Owner's Report de, Section XI.  or nor his employer makes any warranty, expressed on
Inspectors and the State or Province of  Arkwright Mutual Insurance Company have inspected the components described in this to  Aug. 31, 1994  the Owner has performed examinations and taken in accordance with the requirements of ASME Cod  By signing this certificate neither the inspector implied, concerning the examinations and corrections.	Dade County, Florida and employed by of Norwood, MA.  Owner's Report during the period Aug. 4, 1994  , and state that to the best of my knowledge and belief corrective measures described in this Owner's Report de, Section XI.
Inspectors and the State or Province of  Arkwright Mutual Insurance Company have inspected the components described in this to  Aug. 31, 1994  the Owner has performed examinations and taken in accordance with the requirements of ASME Cod  By signing this certificate neither the inspector implied, concerning the examinations and corrections.	Dade County, Florida and employed by of Norwood, MA.  Owner's Report during the period Aug. 4, 1994  , and state that to the best of my knowledge and belief corrective measures described in this Owner's Report de, Section XI.  or nor his employer makes any warranty, expressed on ive measures described in this Owners Report. Furthernable in any manner for any personal injury or property
Inspectors and the State or Province of  Arkwright Mutual Insurance Company have inspected the components described in this of to  Aug. 31, 1994  the Owner has performed examinations and taken in accordance with the requirements of ASME Cod By signing this certificate neither the inspector meither the inspector neither the inspector neither the inspector neither the inspector neither the inspector neither the inspector neither the inspector neither the inspector neither the inspector neither the inspector nor his employer shall be lightly according to the state of the st	Dade County, Florida and employed by of Norwood, MA.  Owner's Report during the period Aug. 4, 1994  , and state that to the best of my knowledge and belief corrective measures described in this Owner's Report de, Section XI.  or nor his employer makes any warranty, expressed on ive measures described in this Owners Report. Furthernable in any manner for any personal injury or property

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner FLOR	IDA POWER & LIG	нт		ate	Aug. 1	7, 199	4		***	
700 Unive	Name rse Blvd. Juno Be	ach, FL 33408		Sheet	1 0	f	1			
	Address		_						<del>-</del>	
Z. Plant	EY POINT			Jnit	3	3				
P.0.	BOX 3088, FLORII	OA CITY, FL 3303	<u>34</u>	PWO:	5093 Y				<del></del>	
	Address	web . Heir	_		-	-		No., Job No. etc.		
3. Work Performed by FLORIDA POWER & LIGHT Type Code Symbol Stamp N/A  Name Authorization No. N/A										
P.O. BOX 3088, FLORIDA CITY, FL 33034  P.O. BOX 3088, FLORIDA CITY, FL 33034  Expiration Date    N/A										
4. Identification o	Address f System	Intake Co	oling Wa	ter Syst	tem			Quality Gro	oup C	
	Construction Code					Ade	denda.	N/A Cod	te Case	
(b) Applicable	Edition of Section f Components Rep	XI Utilized for Re	pairs or	Replacer	ments 1	1989, E	dition,	No Addenda	•	
	*		National		\.	1		Repaired.	ASME Code	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board		)ther itification	n	Year Built	Replaced.	Stamped (Yes or	
- Component			No.					or Replacement	No)	
Nut (1)	N/A	N/A	N/A	BS	5-4-14(	02	N/A	Replacement	No	
Stud (1)	N/A	N/A	N/A	BS	5-4-14(	02	N/A	Replacement	No	
					·····					
L	<u> </u>		<u> </u>	<u> </u>				J	<u> </u>	
	Work Replaced	one (1) worn nu	its and	one (1)	stud o	n bask	cet str	ainer BS-3-14	02 cover.	
7. Description of	Work Replaced	one (1) worm no	tto dila	0110 (1)						
					,					
8. Tests Conduc	ted: Hydrostatic	Pneumatic	Non	ninal Ope	erating P	ressur	e	Other		
	Penning	psi	Tec	t Temp.		U,	eacee's	: F		
	rressure	psi	162			'	-y. 50 3	•		

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. X 1/1in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 94-054-3

### FORM NIS-2 (Back)

Remarks Mechanical connection, no we	facturer's Data Reports to be attached	
. Applicable meller		
	· · · · · · · · · · · · · · · · · · ·	
	, 1	
A	· · · · · · · · · · · · · · · · · · ·	! ! ! 
CER	RTIFICATE OF COMPLIANCE	
We certify that the statements made in	n the report are correct and this $\underline{\mathbb{L}}$	replacement conform
to the rules of the ASME Code, Section	n XI.	repair or replacement
	. I	
Type Code Symbol Stamp	N/A	<u> </u>
Certificate of Authorization No.	N/A Fysication	N/A
Signed Signed	at Sences Son Doch	e 8/22 1997
Owner or Owner's Desig	nea, Title	!!!
CER	TIFICATE OF INSERVICE INSPECTION	
		at Calles and Dalanda Manda
, the undersigned, holding a valid commiss		
nspectors and the State or Province of	Dade County, Florida	and employed by
Arkwright Mutual Insurance Co	ompany of	Norwood, MA.
have inspected the components described i	in this Owner's Report during the	period Aug. 10, 1994
to Aug. 17, 1994	' 1	
`	1	( ) (
the Owner has performed examinations and	I taken corrective measures describ	ed in this Owner's Report
in accordance with the requirements of ASA	ME Code, Section XI.	
By signing this certificate neither the i	nspector por his employer makes a	ny worranty expressed br
· -	0 1	1 1
implied, concerning the examinations and c	corrective measures described in thi	is Owners Report. Furthermo
neither the inspector nor his employer shal	I be liable in any manner for any	personal injury or property
damage or a loss of any kind arising from	or connected with the inspection.	
Kunih Bl	Commissions	Factory Mutual Eng. Asso
Inspector's Signature		8230 (N) (I) Board; State, Province, and Endorseme
9/2 01/		
Date 7/2 19 7 9		94-054-3

# FORM NIS-2 CWNER'S FIPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner FLOR	IDA POWER & LIG	нт	_ 6	Date Se	pt. 29, 1	994		
700 Unive	rse Blvd. Juno Be	each. FL 33408	_	Sheet 1	of	1		
2. PlantTUR	Address (EY POINT		\	Jnit	3			
P.0.	BOX 3088, FLORII	DA CITY, FL 330	 3 <b>4</b>	PW0: 349	18 WO#94	401126		
<del></del>	Address		<del></del>	R	epair Organiz	zation P.O.	No., Job No. etc.	
3. Work Performe	d by FLORIDA Po	OWER & LIGHT	1	ype Code S	Symbol-St	amp	N/A	
	Name BOX 3088, FLORII			Authorizatio			N/A	
r.v.	Address	OA CIII, FL 330.	24 (	Expiration D	ate		N/A	<del>. – .     .                             </del>
4. Identification o	of System	Componer	t Coolin	g Water S	ystem		Quality Gr	oup C
5. (a) Applicable	Construction Code	ANSI B31.1	19 55 E	ditionN	<u>/A.                                    </u>	ddenda,	N/A Cod	de Case
	Edition of Section of Components Rep						. No Addenda	
			National			T	Repaired.	ASME
Name of Component	Name of Manufacturer	Manufacturer . Serial No.	Board No.	Othe Identific		Yeor Built	Replaced, or Replacement	Code Stamped (Yes or
Support	N/A	N/A	N/A	DET	Α	N/A	Repaired	No No
	<del></del>	<del>_</del>						
			]			'	ļ.	
						+		<u> </u>
								]
	·				•			
		<u> </u>	<b> </b>		<del></del>			
					<del></del>			<del> </del>
			<u></u>			<u>1</u>	<u> </u>	
7 Description of	Work Removed a	and reinstalled	CCW Sup	port to fac	cilitate C	hargin	g Pump crank o	case
ocsarption of	" VI N	<del></del>						······································
repair. Hange	r drawing 5613-I	I-621 sht. 10J.						
			_					
8. Tests Conduct	ted: Hydrostatic	Pneumatic	Nom	inal Operati	ing Pressu	ire	Other	
	Pressure	psi	Test	Temp		Degree's	F.	
NOTE: Supplement	ntal aboota in form	of linto alcotaba	n 'n d-n	winas meu i	ha weed	provide	nd (1) eiza is 8 1	/2 in

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. X 11in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. 94-055-3

Remarks All welding performed in accord	urer's Data Reports to be attached
<del></del>	
- #	
<del></del>	
СЕЯТЬ	FICATE OF COMPLIANCE
We certify that the statements made in the	he report are correct and this repaired conform
to the rules of the ASME Code, Section X	II.
Type Code, Symbol Stamp	N/A
Certificate of Authorization No.	N/A Expiration Date N/A
Signed Signed Signed	Server Sel Date 10/2 . 19 94
Owner or Owner's Designee	. Title
CERTIFI	CATE OF INSERVICE INSPECTION
the undersigned, holding a valid commission	issued by the National Board of Boiler and Pressure Vesse
	Dade County, Florida and employed by
Arkwright Mutual Insurance Com	pany of Norwood, MA. this Owner's Report during the period May 8, 1994
nave inspected the components described in t	his Owner's Report during the period May 8, 1994
	, and state that to the best of my knowledge and belief,
	sken corrective measures described in this Owner's Report
n accordance with the requirements of ASME	Code. Section XI.
By signing this certificate neither the insp	ector nor his employer makes any warranty, expressed or
mplied; concerning the examinations and corr	ective measures described in this Owners Report, Furthermo
neither the inspector nor his employer shall he	e liable in any manner for any personal injury or property
damage or a loss of any kind arising from or	connected with the inspection.
Kunik Kll L	Factory Mutual Eng. Asso
MMIL! Hen	Commissions 8230 (N) (I)
Inspector's Signature	National Board, State, Province, and Endorseme 94 – 055 – 3

1. (	OwnerFlorida	Power & Light Name		<del></del>	Date	12/20/94	4	<del></del>
•	700 Universe B	lvd. Juno Beach: F	t. 33408	-	Sheet1	of_	2	
2. 1	Plant <u>Turkey</u>	Name			Unit	3		<del></del>
•	9700 SW 344 St	reet, Florida Cit Address	y, Fl. 33034	-	Repair Organizati	on P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & Name	Light		Type Code Symbol Sta Authorization No Expiration Date		N/A	
	P.O. Box 4332, Pr	rinceton, Fl. 3303 Address	2	_				
4.	Identification of S	System:	COMPONENT COOL	ING WATER	System #:30	Quality	Group: C	
5.	(a) Applicable Cons	struction Code	B:	31.1	19 <u>55_</u> Edition,	NA Ac	ddenda, <u>N/A</u> C	ode Cas
	(b) Applicable Edit				Replacements 19 <u>89</u> Edition, ment Components	<u> </u>	ddenda, <u>N/A</u> C	ode Cas
	Name of Component	Name of Manufacturer	Hanufacturer   Serial No.	National Board	Other Identification	Year Built	Replaced or	ASME Code Stamp Yes/No
rut (	2)	Bergen	066499 &	N/A	BP Part # 2252	H/A	Replacement	No
	HR HX	Paterson	066001	<u> </u>	R93-3011		<u> </u>	<u> </u>
trut (	HR HX	Bergen  Paterson	066498 &  066002	H/A	BP Part # 2252  R93-3011	N/A	Replacement	Мо
	ent (4)	Bergen Paterson	N/A 	N/A	BP Part # 1000   R93-3011	N/A	Replacement	No
		4	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>
		}			ŀ			1
7.	Description of Worl	k: MODIFING EXIST	ING UPPER SEIS	MIC RESTRAI	NTS ON RHR HEAT EXCHANGER	A AND 8	•	
	-	A						<del>-</del>
8.	Tests Conducted:	Hydrostatic:	Pneuma	itic:				
		Other VT-3	Pressu	ire	_psig Test Temperature		*F	

				i i	
	FORM NI	S-2 (Back)	!	:	1 1 1
	•				
pe Code Symbol Stamp N/A  rtificate of Authorization No. N/A Exgred Dawell Paper Designee, Title  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National inspectors and the state or Province of Dade County and employed by Arkur Norwood, Ma. have inspected the components described in this Owners Report 12/19/94 and state that to the best of my knowledge and belief, the taken corrective measures described in this Owners Report in accordance to Section XI.  By signing this certificate neither the Inspector nor his employer makinglied, concerning the examinations and corrective measures described in neither the Inspector nor his employer shall be liable in any manner for damage or a loss of any kind arising from or connected with this inspection.	3.	<del>          </del>			
			!	1 1 <del>4</del>	
,	1	!	1	!	
		i		· · · · · ·	
		<del>,                                    </del>	:	:	
	CERTIFICATE	OF COMPLIANCE	1	t i i i i	1 1
We certify that the statements made in	the report are o	: correct and this re	placement conform	s to the rules	of the
SHE Code, Section XI.	•	1	1	1	
	•		!	! ! ! !	
Type Code Symbol Stamp	<u> </u>	N/A	<del></del>	· · · · · · · · · · · · · · · · · · ·	
Certificate of Authorization No.	N/A		_Expiration Date _	N/A_	
signed Dwill R. Form	W		Date 13 - 13	я	19 <u>77</u>
Owner or Owner's Designee	, Title				
			***		<del> </del>
					·····
	CERTIFICATE OF	INSERVICE INSPECTION	ОИ		I = I = I
inspectors and the state or Province Norwood, Ma. have inspected the comp 12/19/94 and state that to the beaten corrective measures described Section XI.  By signing this certificate neith implied, concerning the examinations neither the Inspector nor his employ	e of Dade County ponents described best of my knowl in this Owners R her the Inspector s and corrective yer shall be liab	and employed by Ari in this Owners Re edge and belief, the teport in accordance nor his employer measures described ble in any manner f	kwright Mutual Insport during the perfect has perfect with the requiremakes any warrant in this Owner's for any personal i	surance Companeriod : 07/01 primed examinatements of the y, expressed of the Report. Further	y of /93 : to: ions and ASME  Code, r rmore,
Juli Stant Inspectors Signature	Commi	Factor	y Mutual Eng. Ass 0 (N)(1) Doard, State, Prov	i i	xiorsements
Date 1/3 1995	- ·				

1. (	Owner Florid	a Power & Light	<del></del>	_	Date	01/13/9	5	
al .	. 700 Universe i	Blvd. Juno Beach F Address	1. 33408	_	Sheet	of	2	<del></del>
2. 1	PlantTurkey	Point Plant Name		_	Unit PWO #:6510/63 WO			
•	9700 SW 344 S	treet, Florida City Address	/, Fl. 33034	<del>-</del>	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. (	Work Performed by_	Ftorida Power & I Name	light	<del>-</del>	Type Code Symbol St Authorization No Expiration Date		N/A	
•	P.O. Box 4332, P	Address		_				
					System #:30 19 <u>55</u> Edition			_
	(b) Applicable Edi			•	Replacements 19 <u>89</u> Edition ment Components	, <u>H/A</u> A	ddenda <u>, N/A</u> C	code Cas
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.		Other   Identification	Year  Built	Repaired Replaced or Replacement	ASHE Code Stamp
L THR		N/A	N/A	N/A	3E207A CCW HX R94-4177	H/A:	Replacement	Yes/No No
ITS S NUTS	)	N/A	IH/A	IN/A	3E207A CCW HX  R94-3949	N/A	Replacement	No
			1	<i>i .</i>				
		,					<u> </u>	
7.	Description of Wor	k: 31 STUOS AND 6	NUTS REPLACED	•		•		<del></del>
			•					
	AA-5 <sub>11</sub> .							
8.	Tests Conducted:	Hydrostatic:	Pneuma	itic:	Nominal Operating	Pressure	·	
		Other	Pressu	ire	_psig Test Temperature_		•F	

					1 1	1				
	FORM NIS	-2 (Back)			! !	!	1	: :	1 1	
emarks: MECHANICAL CONNECTION, NO WELDING REQUI	IDEN				!!!	1				
INC. INCOMMENT CONNECTION, NO WEEDING REGUL	NEU.							·		
			<del></del>			<u> </u>			*)	
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CERY	TIFICATE O	F COMPLIANCE			1 1		I		1 1	
e certify that the statements made in the repo	ort are co	rrect and th	is replaced	nent cor	form	to	the ru	iles o	the	
E Code, Section XI.	· · · · · · · · · · · · · · · · · · ·		•		1 1	i	, ,		•	
					1 1	1				
Type Code Symbol Stamp	<del></del>	N/A	<del></del>		-			<u></u>		
ertificate of Authorization NoN/A	1	1 1 , 1	Expira	ation Da	te	i i	И/1			
00100			rııı	1 1		1				
Owner or Owner's Designee, Title		1 1 1	Date		-/8	<u> </u>		19	95	
Shift of Shift S bestgady little	· i					i i				
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4		• 4					<del></del>			_
CERTIFIC	CATE OF IN	ISERVICE INSP	ECTION				1		1 1	
I, the undersigned, holding a valid commis	ssion issu	ed by the Na	tional Boar	rd of Ba	iler	and	Préssi	ire Ves	sel.	
inspectors and the state or Province of Dade	County ar	nd employed b	y Arkuright	t Mutual	Inst	Jranc	e Comp	any o	F	
Norwood, Ma. have inspected the components do 01/13/95 and state that to the best of m	escribed i	in this Owner de and belie	s Report du	uring th	e pe	riod		/12/94	to	
taken corrective measures described in this (	Owners Re	ort in accor	dance with	the rec	uire	nents	of th	ne ASHI	E Code	• .
Section XI.						i		•		
By signing this certificate neither the I implied, concerning the examinations and cor	nspector r	or his emplo	yer makes a ibod'in bb	any war:	anty	, exp	ressec	ior Harra	••	
neither the Inspector nor his employer shall	be liable	in any mann	er for any	persona	ılin	iury	OF DEC	perty		
damage or a loss of any kind arising from or						1				
			1 1 1	1 1	1 1	i				
		Fa	ctory Hutu		Asso	c. :				
flell you	_ Commiss	ions NB	8230 (N)(	1)						_
Inspectors Signature		Nation	al Board,	State, F	rovi	dence	, and	Endor	sement	S
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ate / / 8 1995	. !	1 1 1	0 1 1		: :	1				
/	1				1 1	i				

1.	Owner Florida	Power & Light		_	Date	01/18/9	5	<del></del>
	700 Universe B	Blvd. Juno Beach F	l. 33408	_	Sheet1	of_	2	
		Address						
2.	PlantTurkey	Point Plant			Unit	3		
		Name			PWO #:5946/63 WO	#: 94018	719 CR #:	94-850
	9700 SW 344 St	reet, Florida Cit Address	y, Fl. 33034		Repair Organizat	ion P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Florida Pover &	Light		Type Code Symbol St	: :AMD	N/A	
٠.	work refrontace by_	Name	<u>cranc</u>	_	Authorization'No.			
			_		Expiration Date			<del></del>
	P.O. Box 4332, Pr	Address	2					
4.	Identification of S	System:	SAFETY INJECTION	ON SYSTEM	System #:62	_Quality	Group: B	
5.	(a) Applicable Cons	struction Code	B.	31.1	19 <u>55_</u> Edition	, <u>NA</u> A	ddenda, <u>N/A</u> C	ode Case
,					-			
	(D) Applicable Edit	tion of Section XI	Utilized for i	Repairs or	Replacements 19 <u>89</u> Edition	1, <u>N/A</u> A	odenda, <u>N/A</u> C	ode Case
6.	Identification of (	Components Repaire	d or Replaced	and Replace	ment Components			
	Name of	Name of	Manufacturer	   National	Other	Year	Repaired	ASHE
	Component	Hanufacturer	Serial No.	Board	Identification	Built		Code
		1	1	1	,		Replacement	Stamp    Yes/No
PPORT	81152-A-002-1	N/A	N/A	N/A	3-899L - VALVE SUPPORT	N/A:	Replacement	Но
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		1	•	,	<u> </u>	<del> </del>	<u> </u>	
		1	İ	İ			<u>.</u>	i
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.7.	Description of World	k: PIPE SUPPORT S	TANTION_81152-	A-002-01 DO	DES NOT ALLOW VLV 3-899L	TO FULLY	OPEN.	<del></del>
	SUPPORT HODIFIED TO	O ALLOW VLV TO FUL	LY OPEN.					
		4						
	•							<del></del>
8.	Tests Conducted:				Nominal Operating	, Pressure	·	
					_psig Test Temperature_		• ε	
		Other <u>VT-3</u>	Pressu	ıre	_psig lest lemperature_		r	

	OPEN VALVE.	
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30.		
		<del></del>
c	ERTIFICATE OF COMPLIANCE	
e certify that the statements made in the r ME Code, Section XI.	eport are correct and this replacement confo	rms to the rules of the
		1 1 1 1
Type Code Symbol Stamp	N/A	1
Type tode Symbot Stanp		
Certificate of Authorization NoN	/A Expiration Date	N/A
signedDRowell	Date 1/18	10 95
Owner or Owner's Designee, Titl	e	19_73
·		) I
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		· · · · · · · · · · · · · · · · · · ·
CERTI	FICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid con	mission issued by the National Board of Boil	
I, the undersigned, holding a valid com- inspectors and the state or Province of Da	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I	nsurance Company of
I, the undersigned, holding a valid com- inspectors and the state or Province of Da Norwood, Ha. have inspected the components	mission issued by the National Board of Boil	nsurance Company of period 12/07/94 to
I, the undersigned, holding a valid com- inspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in the	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the	nsurance Company of period 12/07/94 to formed examinations and
I, the undersigned, holding a valid con inspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in this Section XI.	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has per s Owners Report in accordance with the requi	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Cod
I, the undersigned, holding a valid com- inspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in this Section XI. By signing this certificate neither the	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has per s Owners Report in accordance with the requi	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Cod
I, the undersigned, holding a valid consinspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in this Section XI.  By signing this certificate neither the implied, concerning the examinations and of	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has per s Owners Report in accordance with the requi	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Codaty, expressed or Report. Furthermore,
I, the undersigned, holding a valid com- inspectors and the state or Province of Da Norwood, Ha. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in the Section XI.  By signing this certificate neither the implied, concerning the examinations and of	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has per s Owners Report in accordance with the requi e Inspector nor his employer makes any warran corrective measures described in this Owner's all be liable in any manner for any personal	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Codaty, expressed or Report. Furthermore,
I, the undersigned, holding a valid com- inspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in this Section XI.  By signing this certificate neither the implied, concerning the examinations and oneither the Inspector nor his employer sha	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has per s Owners Report in accordance with the requi e Inspector nor his employer makes any warran corrective measures described in this Owner's all be liable in any manner for any personal	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Codaty, expressed or Report. Furthermore,
I, the undersigned, holding a valid con inspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in this Section XI.  By signing this certificate neither the implied, concerning the examinations and concerning the implications and concerning the implications and concerning the implications and concerning the examinations and concerning the implications and concerning the examinations and concerning the implications and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations are concerning the examinations are concerning the examinations are concerning the examinations are concerning the examinations are concerning the examinations are concerning the examination and concerning the examination are concerning the examination and concerning the examination are concerning the examination are concerning the exami	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has personers Report in accordance with the require Inspector nor his employer makes any warranterective measures described in this Owner's all be liable in any manner for any personal or connected with this inspection.	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Codaty, expressed or Report. Furthermore, injury or property
I, the undersigned, holding a valid com- inspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in this Section XI.  By signing this certificate neither the implied, concerning the examinations and oneither the Inspector nor his employer sha	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has personers Report in accordance with the require Inspector nor his employer makes any warrar corrective measures described in this Owner's all be liable in any manner for any personal or connected with this inspection.  Factory Mutual Eng. As	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Codaty, expressed or Report. Furthermore, injury or property
I, the undersigned, holding a valid con inspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in this Section XI.  By signing this certificate neither the implied, concerning the examinations and concerning the implied, concerning the examinations and concerning the implied of the Inspector nor his employer shadamage or a loss of any kind arising from	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has personers Report in accordance with the required Inspector nor his employer makes any warrant corrective measures described in this Owner's all be liable in any manner for any personal or connected with this inspection.  Factory Mutual Eng. As	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Codaty, expressed or Report. Furthermore, injury or property
I, the undersigned, holding a valid consinspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in this Section XI.  By signing this certificate neither the implied, concerning the examinations and concerning the implied, concerning the examinations and concerning the implied, concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations and concerning the examinations are concerned to the examination and concerning the examination and concerning the examination and concerning the examination and concerning the examination and concerning the examination and concerning the examination and concerning the examination and concerning the examination and concer	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has per s Owners Report in accordance with the requi e Inspector nor his employer makes any warrar corrective measures described in this Owner's all be liable in any manner for any personal or connected with this inspection.  Factory Mutual Eng. As NB 8230 (N)(I)	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Codaty, expressed or Report. Furthermore, injury or property
I, the undersigned, holding a valid consinspectors and the state or Province of Da Norwood, Ma. have inspected the components 01/18/95 and state that to the best of taken corrective measures described in this Section XI.  By signing this certificate neither the implied, concerning the examinations and concerning the implications and concerning the examinations and concerning the implications and concerning the examinations are concerning the examinations and concerning the examinations are concerning the examinations.	mission issued by the National Board of Boil de County and employed by Arkwright Mutual I described in this Owners Report during the my knowledge and belief, the Owner has per s Owners Report in accordance with the requi e Inspector nor his employer makes any warrar corrective measures described in this Owner's all be liable in any manner for any personal or connected with this inspection.  Factory Mutual Eng. As NB 8230 (N)(I)	nsurance Company of period 12/07/94 to formed examinations and rements of the ASME Codaty, expressed or Report. Furthermore, injury or property

1.	Owner Florida	Power & Light		<del></del>	Date0	1/18/99	5	
	700 Universe B	lvd. Juno Beach Fl Address	. 33408	_	Sheet 1	of_	2	
2.	Plant <u>Turkey I</u>			_	Unit	3	<del></del>	
		Name			PHO #:3255/63 WO #:	940099	907	
	9700 SW 344 St	reet, Florida City Address	, Fl. 33034	<del></del>	Repair Organizatio	n P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & L Name	ight		Type Code Symbol Stamp N/A Authorization No. N/A			
	P.O. Box 4332, Pr	inceton, FL. 33032 Address	<u> </u>	_	Expiration Date			
4.	Identification of S	ystem:I	NTAKE-COOLING	WATER	System #:19Q	uality	Group: C	·
5.	(a) Applicable Cons	truction Code	B:	31.1	19 <u>55</u> _Edition,_	NA A	ddenda, <u>N/A</u> C	ode Cas
	(b) Applicable Edit	ion of Section XI	Utilized for (	Repairs or	Replacements 19 <u>89</u> Edition,_	<b>n/a_</b> ac	ddenda <u>, N/A</u> C	ode Cas
	Identification of C							
	Name of Component	Name of   Nanufacturer 	Hanufacturer   Serial No.	National   Board	Other Identification	Year  Built 	Repaired Replaced or Replacement	ASME Code Stamp
uds (	12)	N/A	N/A	N/A	BS-3-1402 ICW A BASKET STRAINER R90-6200	N/A	Replacement	No
TS (1	2)	N/A	N/A	N/A	BS-3-1402 ICW A BASKET STRAINER R93-2967/94-2602	N/A	Replacement	Но
	· · · · · · · · · · · · · · · · · · ·	<u> </u>	,	<u> </u>	ļ	<u> </u>	<u> </u>	<u> </u>
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7.	Description of Work	: 12 STUDS AND NI	JTS REPLACED O	N-A ICW TO	CCW BASKET STRAINER.			
8.		Hydrostatic:		-	Nominal Operating Pa			

FORM	NIS-2:(Back)
. Remarks: MECHANICAL CONNECTION, NO WELDING REQUIRED.	
•	
CERTIFICA	TE OF COMPLIANCE
We certify that the statements made in the report an ASME Code, Section XI.	re correct and this replacement conforms to the rules of the
Type Code Symbol Stamp	N/A
Certificate of Authorization NoN/A	Expiration Date N/A
Signed Distract	Date 1/18 19 55
Owner or Owner's Designee, Title	
HMA	
	OF INSERVICE INSPECTION
inspectors and the state or Province of Dade Count Norwood, Na. have inspected the components describ 01/18/95 and state that to the best of my knotaken corrective measures described in this Owners Section XI.  By signing this certificate neither the Inspection of the concerning the examinations and corrective	owledge and belief, the Owner has performed examinations and s Report in accordance with the requirements of the ASHE Code, tor nor his employer makes any warranty, expressed or we measures described in this Owner's Report. Furthermore, iable in any manner for any personal injury or property
Buni K Blan - co	Factory Mutual Eng. Assoc. mmissions NB 8230 (N)(1)
Inspectors Signature  Date 1 9 9.5	National Board, State, Providence, and Endorsements

1.	Owner <u>Florida</u>			<del></del>	Date	01/19/95	)	
		Name						
	700 Universe B	lvd. Juno Beach Fl	. 33408		Sheet1	of_	2	
•		Address		<del></del>				
_	Dlamb Tumbau	Daime Dlamb			Unit	7		
۷.	PlantTurkey	Name		r	PWO #:6265/63			94-118
		114114			PCH #: 94-124			
,	9700 SW 344 St	reet, Florida City	, Fl. 33034		P <u>S #: 94-215</u>			
		Address			Repair Organ	ization P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & L	ight		Type Code Symbo	l Stamp	N/A	
		Name		_	Authorization N	o	N/A	
					Expiration Date		N/A	
,	P.O. Box 4332, Pr	inceton, Fl. 33032		_				
		Address			,			
4.	Identification of S	ystem: C	vcs		System #:47	Quality	Group: B	
_		According to the second	<b>.</b>	74 4	40EE E41	eion WA A	Halamada 1168 C	odo Coo
٥.	(a) Applicable Cons	truction Code	8	31.1	19 <u>55_</u> Edi	tion, KAAC	Merkia, R/A_C	i case
	(b) Applicable Edit	ion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89:</u> Edi	tion, N/A Ad	denda, <u>N/A</u> C	bde Case
						<del>,</del>		<u>*</u>
6.	Identification of C	components Repaired	or Replaced	and Replace	ment Components			
	Name of	Name of	Manufacturer	National	Other	Year	Repaired	ASHE
	Component	Manufacturer	Serial No.	Board	Identification	•	Replaced or	Code
					i .	i	Replacement	Stamp
			. <u> </u>	<u>i</u>			ļ	Yes/No
PING	SUPPORT	H/A	H/A	N/A 	MARK 3 DWG 5613-H-64	1 JUKN	Replaced 	No 
PING	SUPPORT	N/A >	N/A	N/A	MARK 5 DWG 5613-H-64	1 1995	Replacement	Но
		<u> </u>	<u> </u>	<u> </u>	SHT. 8A - 8C		<u> </u>	<del>ļ</del>
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		<u> </u>	<u></u>	<u> </u>			<u> </u>	<del> </del>
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7.	Description of Worl	k: INSTALLED NEW S	SUPPORT FOR CV	CS VALVE_L	CV-3-115C PER PCM 94-	124. SUPPORT		
	-							
	MARK 3 WAS REMOVED	. MATERIAL REQUIS	ITION NUMBERS:	R91-5241,	R91-4420,			
	207 4000 207 7477	207 7227 202 241	ne no/-000E	DO4-4402 1	R90-7180,			
	KY3-1222, KY4-3100	, KO1-1223, KY2-214	23, K94-0093,	K91-1102, 1	(90-1100,			
	USED IN THE CONSTR	UCTION OF SUPPORT I	MARK 5.					
								*
				·				
_	Table Coulty 1	N. danas - 62 c	P	ntia:	Naminal Onces	ting Draceure		
<i>₁</i> 8.	lests Conducted:	Hydrostatic:	Pneum	atic:	Nominal Opera	ting ricesure	·	
		Other VT-3	Pressi	ure	_psig Test Temperat	ure	•F	

<del>4-124.</del>				
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	1	<u></u>		····
			<del></del>	
CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this replacement conforms to the rules of the ISME Code, Section XI.  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed Data Rould Date 1/20 19 95  Owner or Owner's Designee, Title  CERTIFICATE OF INSERVICE INSPECTION				
	he report are co	rrect and this a	replacement conforms to	the rules of the
ME Code, Section XI.			1 1 i	
Time Gode Combal Chama	1 1	11.74	i i i	
Type Code Symbot Stamp	1	N/A	· · · · · · · · · · · · · · · · · · ·	i
Certificate of Authorization No.	N/A		Expiration:Date	<u> </u>
signed Date ! Your	/		Date 1/20	19 <i>_<del>'9</del>s'</i> _
	Title	1 1 1		
L Company	( ) ( )		1 1	
Z			<u></u>	
Z				
	commission issu of Dade County an ents described i of my knowled	ed by the Natio d employed by A n this Owners R ge and belief,	nal Board of Boiler and rkwright Mutual Insural eport during the period the Owner has performed	nce Company of d : 11/22/94 : to d examinations and
I, the undersigned, holding a valid inspectors and the state or Province o Norwood, Ma. have inspected the compon 01/19/95 and state that to the bestaken corrective measures described in	I commission issued for Dade County and Lents described in the first of my knowled this Owners Report the Inspector mand corrective me shall be liable	ed by the Natio d employed by A n this Owners R ge and belief, ort in accordan or his employer easures describe in any manner	nal Board of Boiler and rkwright Mutual Insural eport during the period the Owner has performed with the requirement makes any warranty, end in this Owner's Repofor any personal injur	nce Company of d : 11/22/94 : to d examinations and ts of the ASME Cod xpressed or rt. Furthermore,
I, the undersigned, holding a valid inspectors and the state or Province of Norwood, Ma. have inspected the compon 01/19/95 and state that to the bestaken corrective measures described in Section XI.  By signing this certificate neither implied, concerning the examinations a neither the Inspector nor his employer	I commission issued for Dade County and Ments described in the first of my knowled in this Owners Report the Inspector in and corrective ments shall be liable from or connected	ed by the Natio d employed by A n this Owners R ge and belief, ort in accordan or his employer asures describe in any manner I with this insp	nal Board of Boiler and rkwright Mutual Insural eport during the period the Owner has performed with the requirement makes any warranty, end in this Owner's Repofor any personal injur	nce Company of d : 11/22/94 : to d examinations and ts of the ASME Cod  xpressed or rt. Furthermore, y or property

1.	OwnerFlorid	da Power & Light		_	Date	02/21/9	5	
		Name -						
	700 Universe	Blvd. Juno Beach F Address	1. 33408	_	Sheet1	of	2	
		Audi C33						
2.	PlantTurkey		·	_	Unit	3		
		Name			PWO #:6945/63 W	o #: 95001	289 CR #:	94-850
	9700 SW 344 S	Street, Florida Cit	y, Fl. 33034	_				
		Address			Repair Organiza	ation P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power &	Light		Type Code, Symbol :	Stamp	N/A	
		Name			Authorization No. Expiration Date		N/A N/A	
	P.O. Box 4332, 1	Princeton, Fl. 3303	2	_				
		Address						
4.	Identification of	System:	SAFETY INJECTION	ON	System #:62	Quality	Group: B	
5.	(a) Apolicable Co	nstruction Code	R	31.1	19 <u>55_</u> Editio	on. NA A	ddenda. N/A C	ode Case
		<del></del>						
	(b) Applicable Ed	ition of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition	on, <u>N/A</u> A	ddenda, <u>"N/A</u> C	ode Case
6.	Identification of	Components Repaire	d or Replaced	and Replace	ment Components			
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	Name of Component	Name of Hanufacturer	Manufacturer	•	Other Identification	Year	•	ASHE
	conponent	Harkitacturer	Serial Ro.	l Board	location		Replaced or Replacement	•
		_	_	<u> </u>	.j	i	ļ	Yes/No
JPPOR	T 81152-A-002-1	H/A	N/A	H/A	3-899L VALVE SUPPORT	JUNK.	Replacement	[No ]
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		` <b>!</b>	l l	<u>;</u>	<u> </u>		l I	<u> </u>
		<del></del>						
7.	Description of Wo	rk: PIPE SUPPORT N	10. 81152-A-002	-01 MODIFIE	D TO ALLOW VALVE 3-899L	TO FULLY	OPEN.	<del></del>
	PREVIEWS HODIFICA	TION TO SUPPORT DON	E UNDER PHO 94	018719 WAS	INADEQUATE REQUIRING			
	FURTHER MODIFICAT	ION.		<del></del>			<del></del>	
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	<del></del>							
8.	.Tests Conducted:	Hydrostatic:	Pneuma	itic:	Nominal Operatin	g Pressure		
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		Other <u>VT-3</u>	Pressu	ıre	_psig Test Temperature		•F	

	Y OPEN VALVE.	· ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<del>`,,-</del>	r r r r	<del>: : :</del>	<u> </u>	<del></del>
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	CERTIFICATE	DF COMPLIA	NCE		1 1	i I i i i	t 1
We certify that the statements made in the SME Code, Section XI.	e report are c	orrect and	this replac	ement conf	forms to	the rules	of the
Type Code Symbol Stamp	: :	H/A_			: : : :	! !	<del>,,</del>
Certificate of Authorization No.	N/A	: ! !	Expi	ration Da	te	- N/A	
signed DR Pouse			Date	13-	21	; ;	19_75
Owner or Owner's Designee, Ti	itle	<del>                                     </del>	Dace	·——•		<del></del>	19_(3_
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CEF	RTIFICATE OF I	NSERVICE I	NSPECTION				· · · · ·
1, the undersigned, holding a valid of inspectors and the state or Province of Norwood, Ma. have inspected the componer 02/21/95 and state that to the best taken corrective measures described in Section XI.  By signing this certificate neither implied, concerning the examinations and neither the Inspector nor his employer damage or a loss of any kind arising from	commission iss Dade County a nts described of my knowle this Owners Re the Inspector d corrective me	ued by the ind employed in this Owner and be port in acomor his empeasures determined to the in any many many many many many many many	National Bod by Arkwrighters Report Lief, the Ocordance will ployer make scribed in anner for a	the Mutual during the mer has post, the requestions any warrant bis owner by persona	Insuran e period erformed uirement anty, ex 's Repor	ce Company 01/13/ examination s of the A pressed or	of Q5   to Qns and SME Coo           
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1. Owner Florid	la Power & Light Name		_	Date	03/06/9	5	<u>_</u>
700 Universe	Blvd. Juno Beach F	t. 33408	_	* Sheet <u>1 : </u>	of_	2	<del></del>
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2. Plant Yurkey	Point Plant Name			Unit PWO #:8869/69 WO #	3 : 95004		95-115
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<u>9709 SW 344 S</u>	treet, Florida Cit Address	y, FL. 33034	<del>-</del>	Repair Organization	on P.O.	No.,Job.No.,e	tc
3. Work Performed by_	Florida Power &	Light	_	Type Code Symbol Star	mp	N/A	
	Name			Authorization No		N/A	
P.O. Box 4332, P	rinceton, Fl. 3303 Address	2	_	Expiration Date		N/A	
4. Identification of	System:	BORIC ACID TRA	NSFER	System #:46	Quality	Group: B	
5. (a) Applicable Cor	struction Code	В.	31.1	, 19 <u>55_</u> Edition,	NA A	ddenda, N/A C	ode Case
			•	Replacements 19 <u>89</u> Edition,	<u> </u>	ddenda, <u>N/A</u> C	ode Case
6. Identification of	Components Repaire	d or Replaced	and Replace	ment Components			
Name of	Name of	Manufacturer	National	Other	Year	Repaired	ASHE
Component	Hanufacturer	Serial No.	Board	Identification	Built	Replaced or	Code
	1	i :	<u>.</u>		_	Replacement	Stamp Yes/No
PE 2"	N/A	H/A	H/A	R94-1843 ASHE SA-312	UNK.	Replacement	Но
4 SS	IN/A:	IN/A	N/A	SCH 10S, NC-2   (3)R95-0403, (1)R95-0046	IUNK.	Replacement	No
			111/1	1(5)(1)5 04057 (1)(1)5 0040			!
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BOWS 2"			<u> </u> 	SA-182, GR 304F, NC-2 			<u>.</u>
BOWS 2"				SA-182, GR 304F, NC-2   			
BOWS 2"				SA-182, GR 304F, NC-2 		 	
BOWS 2"				SA-182, GR 304F, NC-2			
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BOWS 2" 4 SS (4)			D DUE TO TH				
BOWS 2" 4 SS (4)							
BOWS 2" 4 SS (4)							
BOWS 2" 4 SS (4)							
BOWS 2" 4 SS (4)							
BOWS 2" 4 SS (4)							
BOWS 2" 4 SS (4)							
BOWS 2" 4 SS (4)		ELBOWS REPLACE		ROUGH WALL LEAKAGE.			

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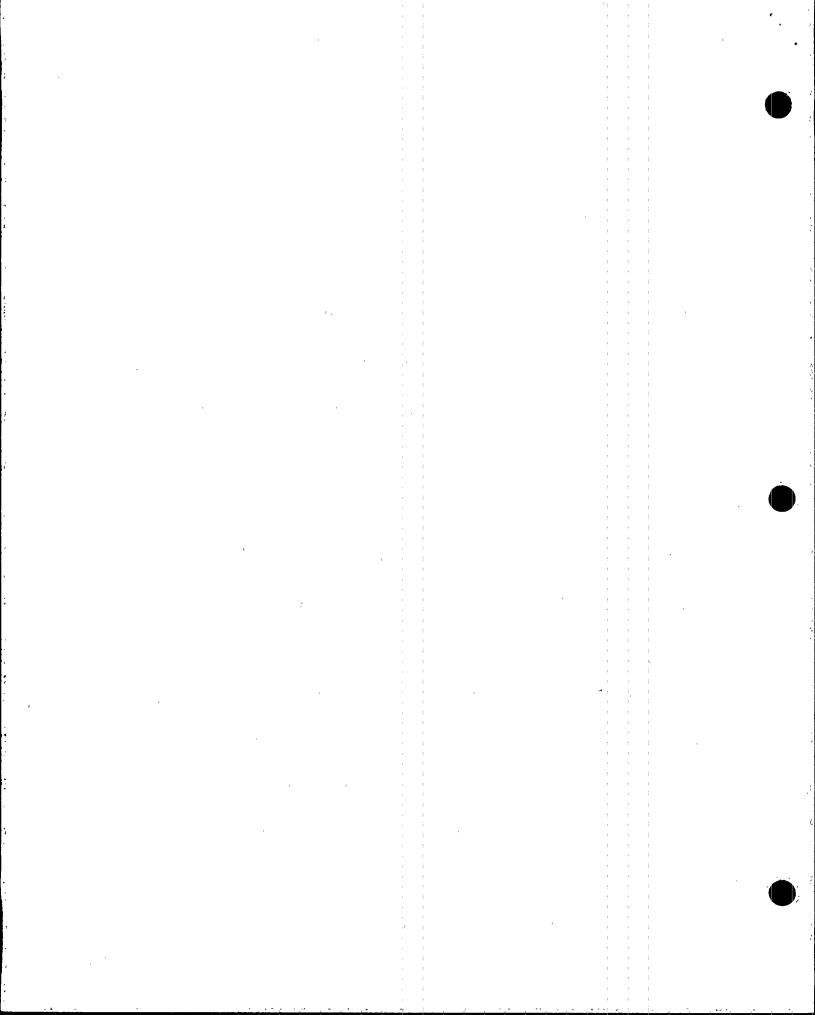
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CEPTI	FICATE OF COMPI	IANCE	1 1		
Otan I a	TOME OF CONF	. I A ROLL		i	
We certify that the statements made in the repor	t are correct	and this replac	ement conform	to the ru	les of th
SME Code, Section XI.	·		1 1		
	i i			1	
Type Code Symbol Stamp	N/A				
Certificate of Authorization No. N/A		l l ipuni	ration Date _	** **	
A C C		Exp1	ration vate	N/A	<del>'                                    </del>
Signed Novil K. Yawell	· ! ! !	Date	3-5	· · · · · · · · · · · · · · · · · · ·	19 35
Owner or Owner's Designee, Title		e e e e e e e e e e e e e e e e e e e		•	
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	1		1 1	i I	
CERTIFICA	TE OF INSERVICE	E INSPECTION	: :		
I, the undersigned, holding a valid commiss	ion issued by	the National Bo	ard of Boller	and Pressu	re Vessel
inspectors and the state or Province of Dade C	county and emple	oyed by Arkurig	ht Mutual Insi	ırance Comp	any of
Norwood, Ma. have inspected the components des					
03/06/95 and state that to the best of my taken corrective measures described in this Ok					
Section XI.	more report in	Cobol dallos Alt	i the require	incirco or cir	C ASIL CO
By signing this certificate neither the Ins					
implied, concerning the examinations and corre					
neither the Inspector nor his employer shall be damage or a loss of any kind arising from or c				jury or pro	perty
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Coming the second			ual Eng. Asso	e.	
/xusus smi	Commissions	NB 8230 (N)		<del> </del>	
Inspectors Signature		National Board,	State, Provid	dence, and	Endorseme
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Date 2 / 19 93			!!!	i	
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### CUMULATIVE DISTRIBUTION SUMMARY TURKEY POINT UNIT # 3 09/95

COMPONENT : S/G C	Page : Date :	1 11/15/95
Examination Dates: 09/14/95 thru 09/19/95		
Total Number of Tubes Inspected: 3181		
Total Indications  Between 20% and 39%		
Total Tubes Plugged as Preventive Maint: 0 Total Tubes Plugged		

### Location Of Indications 20% to 100%

Нс	t Leg	1					Cold	l Le	g				
TSH5	to	01H	-2.1	•	0	TSC ·	5	to.	01C	-2.1	:		1
01H -2'.	0 to	06H	+2.0	:	1	01C ·	-2.0	to	06C	+2.0	:		3
06H +2.	1 to	AV1	-3.1	:	3	06C ·	+2.1	to	AV4	-3.1	:	•	6
-AV1 -3.	0 to	AV4	-3.0	•	33								



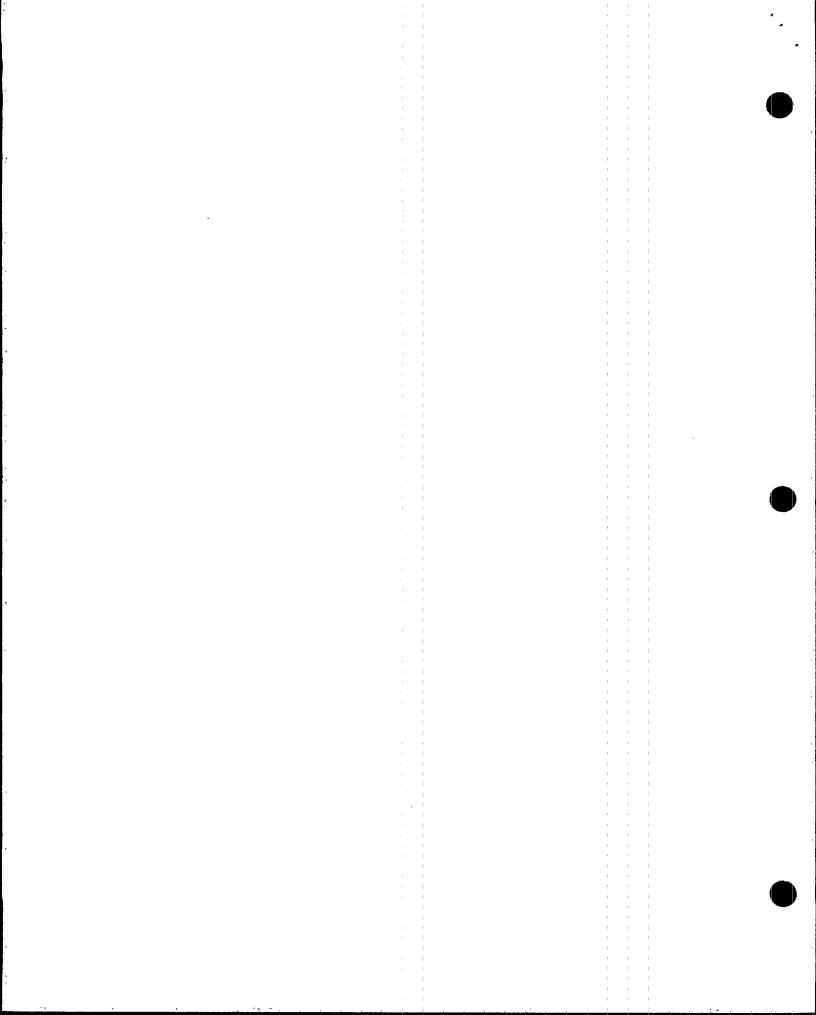
# INDICATIONS/TRENDING REPORT PTN-3 OUTAGE: 09/95

COMPONENT : S/G C

DESCRIPTION: 20% to 39%

Page: 1 Date: 10/3/95 Time: 15:20:51

3    16    31    40    37    27    30    33	10 15 15 25 25 28 30	Leg C C C C	TEH TEH TEH TEH TEH TEH TEH TEH	TST/Not	PS     SS     SS     SS     SS	CH004 CC039 CC036 CC033 CC033	Probe      A-720-H/ULC  A-720-H/ULC  A-720-H/ULC  A-720-H/ULC  A-720-H/ULC	  02H  06C  AV1  AV2	•••••	•		 1	 35	Diff  	N/A Location	Volts E   -	eg  	Ch   	*
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#### INDICATIONS/TRENDING REPORT

PTN-3

OUTAGE : 09/95

COMPONENT : S/G C

DESCRIPTION : 20% to:39%

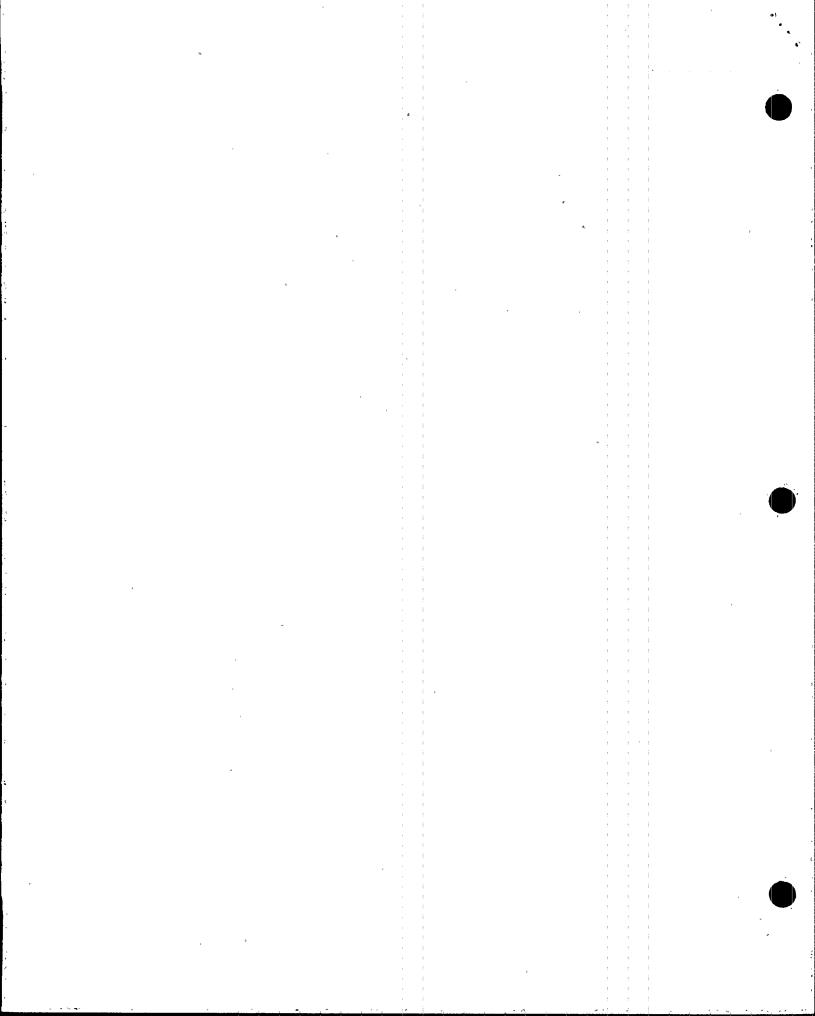
Page: 2

Date : 10/ 3/95

Time: 15:20:53

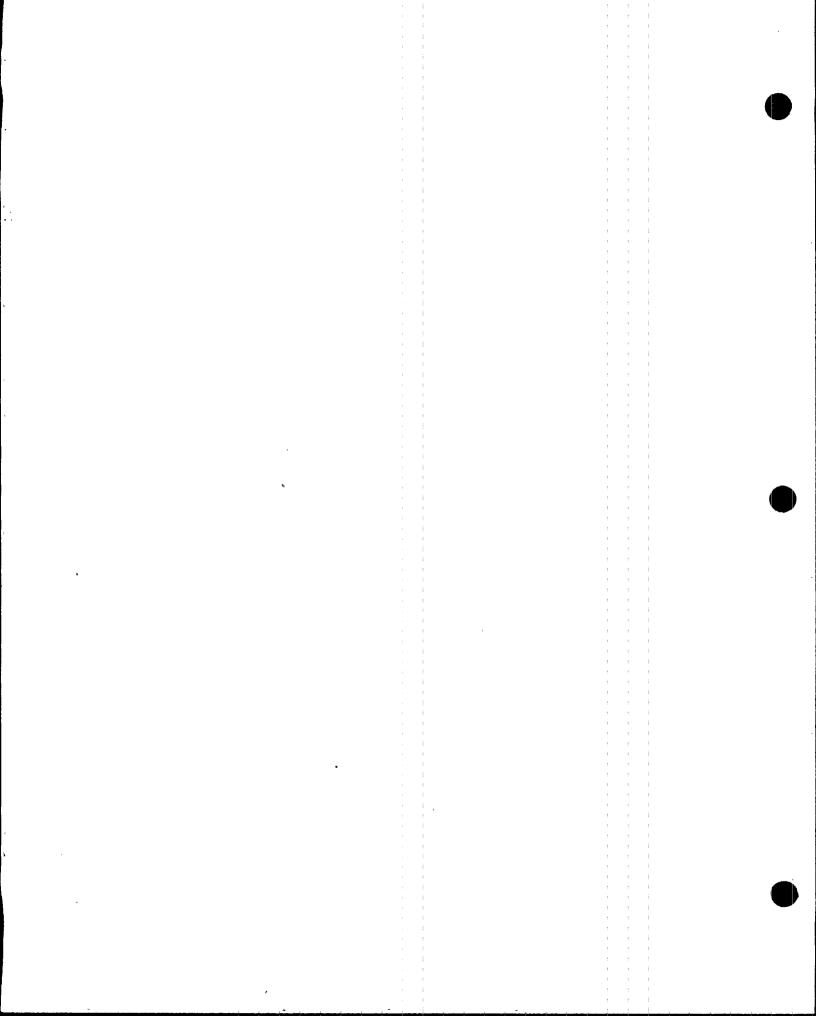
			Ex	tent				l		09/95					H/A			
Row	Col	Leg	Req	Tst	/Note	Reel.	Probe	L	ocation	<b> Volts</b>	Deg	Ch	, <b>%</b>	Diff	1	Volts		•
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ı	ĺ	ic	TEH	TEH	PC	CC013	A-720-H/ULC	AV4	.0:	.5	١.	P 2	25	1 1		1	1 1	ı
38	71	ij√c	TEH	TEH	PS	CC010	A-720-H/ULC	AV3	.0	.5	١ .	P 2	24	] .	,	Į.	1 1	1
1	76	i c	06C	05C	PS	CC020	A-720-H/ULC	020	4.6	1.4	142	1	38	1 1	'	1	1 1	1
	i	•	106C	•		CC038	A-720-H/ULC	02C	4.5	1.1	140	] 1	32	1		1.	1 1	
		i	.	i			. j	j		j	j	j					11-	

Number of RECORDS Selected from Current Outage: 47
Number of TUBES Selected from Current Outage: 30



### TURKEY POINT UNIT 3 1995 REFUELING OUTAGE

Form NIS-2 Owners! Data Report of Repairs and Replacements



1.	Owner Florida	Power & Light		-	Date	04/10/95	; 	
	700 Universe B	lvd. Juno Beach Fl Address	. 33408	<u>.</u>	Sheet 1	of_	2	
2. (	PlantTurkey_	Point Plant		_	Unit PWO #:8866/69			95-11
	0700 au 744 au	Name	. 61 7707/		PWU #:0000/09	WU #: 950042	:50 CK #:	95 <b>-</b> 11:
•	9700 SW 344 ST	reet, Florida City Address	7, Ft. 33034	<del></del>	Repair Organ	ization P.O.	No.,Job No.,e	tc
3. "	Work Performed by_	Florida Power & L Name	ight	-	Type Code Symbo Authorization N Expiration Date	0.	N/A	
	P.O. Box 4332, Pr	rinceton, Fl. 33032 Address	2	_	·			
4.	Identification of S	System:	BORIC ACID TRA	NSFER	System #:46	Quality	Group: B	
5.	(a) Applicable Cons	struction Code	B:	31.1	19 <u>55_</u> Edi	tion, NA Ac	idenda, <u>N/A</u> C	ode Cas
	(b) Applicable Edit				Replacements 19 <u>89</u> Edi ment Components	tion, <u>N/A</u> Ac	ddenda, <u>N/A</u> C	ode Cas
	Name of	Name of	Hanufacturer	•		Year	•	ASHE
	Component	Manufacturer	Serial No.	Board   	Identification	on Built	Replaced or Replacement	Code  Stamp  Yes/No
PIPE 2"		N/A	N/A	N/A	R94-3934 ASHE SA-312	UNK.	Replacement	No
ELBOW 304-SS	(1)	H/A  -	N/A	N/A	R95-0403 ASME SA-182	i	Replacement	No
TEE 304 SS		H/A	H/A	N/A	R95-0579 ASME SA-182	UNK.	Replacement	No
	M'VALVE	ITT GRINNELL	75-4104-30-2	9N/A	R95-0435 ASHE SA-351 GR CF8 VLV #342	1976	Replacement	Yes 
	,			1	1		<u> </u>	
7.	Description of Wor	k: PIPING, VALVE,	TEE AND ELBOW	REPLACED C	UE TO THROUGH WALL LE	EAKAGE.		
	•				<u>'</u>			
	ú				d'			<u>_</u>
	<del></del>							
				<u></u>	•, •			
8.	Tests Conducted:	Hydrostatic: X	Pneum	ntic:	Nominal Opera	ting Pressure		
		Other VT-2	Pressu	ıre <u>195</u>	_psig Test Temperate	ure8	•F	

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•				1 1		
•	•			1 1		
	CERTIFICATE O	F COMPLIANCE		1 1		
We certify that the statements made	in the report are co	rrect and th	is reblademen	t conforms	to the rules	of the
SHE Code, Section XI.	in the report are co	iicoc oika sii	is repracemen	c comornia	to the fates	or rue
·				1 1	1	
Time dade destrict days	· · · · · · · · · · · · · · · · · · ·			1 1	1	
Type Code Symbol Stamp		N/A			<del></del>	
Certificate of Authorization No	N/A	1 1 1	Expirati	on Date	N/A	
100 All 2 1.	Tel In	,		1	11	<u> </u>
Signed What if the	Technical NE	inc, c	Date	Mpri 1		19_7/
Owner or Øwner's Design	ee, Title		1 1 1 1	/		
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<del></del>	**					
				1 1	1	
	: !				1	
	CERTIFICATE OF IN	SERVICE INSP	ECTION,	1 1		
I. the undersigned, holding a	: 1		·	of Roller	nd Prossupa	Vaccal
I, the undersigned, holding a vinspectors and the state or Provin	valid commission issu	ed by the Na	tional Board			
inspectors and the state or Provide Norwood, Ma. have inspected the co	valid commission issu uce of Dade County an umponents described i	ed by the Na d employed b n this Owner	tional Board y Arkwright M s Report duri	utual Insur ng the peri	ance Company od 02/11/	of   95 to
inspectors and the state or Proving Norwood, Ma. have inspected the co 04/06/95 and state that to the	valid commission issu nce of Dade County an amponents described in the best of my knowled	ed by the Na d employed b n this Owner ge and belie	tional Board y Arkuright M s Report duri f, the Owner	utual Insur ng the peri has perform	ance Company od 02/11/ ed examinati	of i 95 to ons and
inspectors and the state or Proving Norwood, Ma. have inspected the condition of the condit	valid commission issu nce of Dade County an amponents described in the best of my knowled	ed by the Na d employed b n this Owner ge and belie	tional Board y Arkuright M s Report duri f, the Owner	utual Insur ng the peri has perform	ance Company od 02/11/ ed examinati	of to 95 to ons and
inspectors and the state or Proving Norwood, Ma. have inspected the confusion of the confus	valid commission issumed of Dade County and imponents described in the best of my knowleded in this Owners Rep	ed by the Na d employed b n this Owner ge and belie ort in accor	tional Board y Arkwright P s Report duri f, the Owner dance with th	utual Insur ng the peri has perform e requireme	ance Company od 02/11/ ed examinations of the A	of to 95 to ons and SHE Cod
inspectors and the state or Proving Norwood, Ma. have inspected the confusion of the confus	valid commission issued of Dade County and imponents described in the Daniers Reported in the Inspector of t	ed by the Na d employed b n this Owner ge and belie ort in accor	tional Board y Arkwright P s Report duri f, the Owner dance with th	utual insur ng the peri has perform e requireme	ance Company od 02/11/ ed examinations of the A expressed or	of 95 to ons and SHE Cod
inspectors and the state or Proving Norwood, Ma. have inspected the confidence of th	valid commission issued of Dade County and imponents described in best of my knowleded in this Owners Report ther the Inspector mand corrective me	ed by the Na d employed b n this Owner ge and belie ort in accor- or his emplo- asures descr	tional Board y Arkwright P s Report duri f, the Owner dance with th yer makes any ibed in this	utual insur ng the peri has perform e requireme warranty, Owner's Rep	ance Company od 02/11/ led examinations of the A expressed or lort. Further	of to 95 to ons and SME Cod
inspectors and the state or Proving Norwood, Ma. have inspected the conditional of the conditional of the conditional of the conference of the conditional of the con	valid commission issumed of Dade County and proposed in the County knowled in this Owners Report the Inspector rons and corrective meloyer shall be liable	ed by the Na d employed b n this Owner ge and belie ort in accor- or his emplo asures descr	tional Board y Arkwright M s Report duri f, the Owner dance with th yer makes any ibed in this er for any pe	utual insur ng the peri has perform e requireme warranty, Owner's Rep	ance Company od 02/11/ led examinations of the A expressed or lort. Further	of to 95 to ons and SME Cod
inspectors and the state or Proving Norwood, Ma. have inspected the condition of the condit	valid commission issumed of Dade County and proposed in the County knowled in this Owners Report the Inspector rons and corrective meloyer shall be liable	ed by the Na d employed b n this Owner ge and belie ort in accor- or his emplo asures descr	tional Board y Arkwright M s Report duri f, the Owner dance with th yer makes any ibed in this er for any pe	utual insur ng the peri has perform e requireme warranty, Owner's Rep	ance Company od 02/11/ led examinations of the A expressed or lort. Further	of to
inspectors and the state or Proving Norwood, Ma. have inspected the cond4/06/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate neither, concerning the examination of the implied, concerning the examination of the inspector nor his employed amage or a loss of any kind arise.	valid commission issumed of Dade County and proposed in the County knowled in this Owners Report the Inspector rons and corrective meloyer shall be liable	ed by the Na d employed b n this Owner ge and belie ort in accor- or his emplo asures descr	tional Board y Arkwright M s Report duri f, the Owner dance with th yer makes any ibed in this er for any pe	utual insur ng the peri has perform e requireme warranty, Owner's Rep	ance Company od 02/11/ led examinations of the A expressed or lort. Further	of to
inspectors and the state or Proving Norwood, Ma. have inspected the condition of the condition of the contractive measures described Section XI.  By signing this certificate neighbor implied, concerning the examination neither the inspector nor his employed.	valid commission issued of Dade County and imponents described in best of my knowled and in this Owners Reported in the Inspector mans and corrective means and corrective means from or connected	ed by the Na d employed b n this Owner ge and belie ort in accor- or his emplo asures descr in any mann with this i	tional Board y Arkwright M s Report duri f, the Owner dance with th yer makes any ibed in this er for any pe	utual Insur ng the peri has perform e requireme warranty, Owner's Rep rsonal inju	ance Company od 02/11/ ed examinations of the A expressed or ort. Further ary or proper	of to
inspectors and the state or Proving Norwood, Ma. have inspected the cond4/06/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate neimplied, concerning the examination neither the inspector nor his emplication of the examination of	valid commission issumed of Dade County and proposed in the County knowled in this Owners Report the Inspector rons and corrective meloyer shall be liable	ed by the Na d employed b n this Owner ge and belie ort in accor or his emplo asures descr in any mann with this i	tional Board y Arkwright F s Report duri f, the Owner dance with th yer makes any ibed in this er for any punspection. ctory Mutual 8230 (N)(I)	utual Insur ng the peri has perform e requireme warranty, Owner's Rep rsonal inju	ance Company od 02/11/ ed examinati nts of the A expressed or ort. Further ry or proper	of to 95 to ons and SHE Cod more, ty
inspectors and the state or Proving Norwood, Ma. have inspected the cond4/06/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate neither, concerning the examination of the implied, concerning the examination of the inspector nor his employed amage or a loss of any kind arise.	valid commission issued of Dade County and imponents described in best of my knowled and in this Owners Reported in the Inspector mans and corrective means and corrective means from or connected	ed by the Na d employed b n this Owner ge and belie ort in accor or his emplo asures descr in any mann with this i	tional Board y Arkwright F s Report duri f, the Owner dance with th yer makes any ibed in this er for any punspection. ctory Mutual	utual Insur ng the peri has perform e requireme warranty, Owner's Rep rsonal inju	ance Company od 02/11/ ed examinati nts of the A expressed or ort. Further ry or proper	of to 95 to ons and SHE Cod more, ty
inspectors and the state or Proving Norwood, Ma. have inspected the cond4/06/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate neimplied, concerning the examination neither the inspector nor his emplication of the examination of	valid commission issued of Dade County and imponents described in best of my knowled and in this Owners Reported in the Inspector mans and corrective means and corrective means from or connected	ed by the Na d employed b n this Owner ge and belie ort in accor or his emplo asures descr in any mann with this i	tional Board y Arkwright F s Report duri f, the Owner dance with th yer makes any ibed in this er for any punspection. ctory Mutual 8230 (N)(I)	utual Insur ng the peri has perform e requireme warranty, Owner's Rep rsonal inju	ance Company od 02/11/ ed examinati nts of the A expressed or ort. Further ry or proper	of to 95 to ons and SHE Cod more, ty
inspectors and the state or Proving Norwood, Ma. have inspected the cond4/06/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate neimplied, concerning the examination neither the inspector nor his emplication of the examination of	valid commission issued of Dade County and imponents described in best of my knowled and in this Owners Reported in the Inspector mans and corrective means and corrective means from or connected	ed by the Na d employed b n this Owner ge and belie ort in accor or his emplo asures descr in any mann with this i	tional Board y Arkwright F s Report duri f, the Owner dance with th yer makes any ibed in this er for any punspection. ctory Mutual 8230 (N)(I)	utual Insur ng the peri has perform e requireme warranty, Owner's Rep rsonal inju	ance Company od 02/11/ ed examinati nts of the A expressed or ort. Further ry or proper	of to 95 to ons and SHE Cod more, ty

1.	Owner Florida	Power & Light Name		<del></del>	Date	04/06/95	<b>;</b>	
	700 Universe B	Nivd. Juno Beach Fl Address	. 33408	_	Sheet 1	of_	2	<del></del>
2.	Plant <u>Turkey</u>	Point Plant Name			UnitPWO #:8517/63 -WO #			
	9700 SW 344 St	reet, Florida City Address	/, Fl. 33034	_	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3.	Work Performed by	Name		_	Type Code Symbol Sta Authorization No Expiration Date		N/A	
,		Address			Custom #s 70	Oug Linu	Canana G	
5.	(a) Applicable Cons	struction Code	B	31.1	System #:30 19 <u>55_</u> Edition	<u>, NA</u> Ac	ddenda <u>, N/A</u> C	ode Cas
	(b) Applicable Edit  Identification of C				Replacements 19 <u>89</u> Edition ement Components	<u>, H/A</u> Ac	ddenda, <u>N/A</u> C	ode Cas
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National Board	Other   Identification	Year  Built	Replaced or	ASME Code Stamp
L THR		N/A	N/A	N/A	3E207C CCW HX  R93-2015		  Replacement 	Yes/No  No 
JTS 2 NUTS	3)	N/A 	H/A	H/A   	3E207C CCW HX  R94-3949	H/A	Replacement  - 	No 
7.	Description of Worl	k: Bolting replac	ement, 1 stud	& 2 nuts or	the component cooling wa	ter heat		
	exchanger.							<u> </u>
	<u></u>	•				<del></del>		<u> </u>
8.	Tests Conducted:			ntic:		·		
		Other	Pressu	ıre	_psig <sup>,</sup> Test Temperature		•F	

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	FORM NIS-2 (Back)	1 1		
	10KH   N13-2 (DUCK)	1 1		
Remarks: MECHANICAL CONNECTION, NO WELDING RE	QUIRED.			
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C	ERTIFICATE OF COMPLIANCE			1 1 1
		i i	i	
We certify that the statements made in the r	eport are correct and this	replacement conforms	to the rul	es of the
ASME Code, Section XI.	0.00	!!!	!	
		: :	:	
Type Code Symbol Stamp	N/A	! !	1	
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Certificate of Authorization NoN	1/A	Expiration Date	N/A	
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Signed // / / / / / / / / / / / / / / / / /	ical Manger	Date	6	19_/5
Owner or Owner's Designee, Titl	.e			
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#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 03/24/95 to 04/06/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

•	1		
	· i	r r i	
Ken : Pall		Factory Mutual Eng. Assoc.	
Mull Afan	Commissions	NB 8230 (N)(I)	
Inspectors Signature		National Board, State, Providence, and Endorse	ments

Date 4/6 1995

1.	Owner Florida	Power & Light Name		_	·Date	04/10/9	5	
	700 Universe E	Blvd. Juno Beach Fl Address	. 33408	<del></del>	Sheet1	of_	2	
2.	PlantTurkey			_	Unit	3 0 #: 95004		95-11
	9700 SW 344 St	reet, Florida City	/, Fl. 33034				asa on wa	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Address	····	<del></del>	Repair Organiz	ation P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Florida Power & L Name	ight		Type Code Symbol Authorization No. Expiration Date _		N/A	<u> </u>
	P.O. Box 4332, Pr	rinceton, Fl. 33032 Address	2		,			
4.	Identification of S	System: E	BORIC ACID TRA	NSFER	System #:46	Quality	Group: B	
5.	(a) Applicable Cons	struction Code	В:	31.1	19 <u>55_</u> Editi	on, NA A	ddenda, <u>N/A</u> C	ode Cas
	(b) Applicable Edit				Replacements 19 <u>89</u> Editi	on <u>, N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
	Name of Component	Name of Hanufacturer	Hanufacturer   Serial No.	National Board	Other   Identification	Year  Built	Repaired Replaced or Replacement	•
PIPING 304 SS	2"	N/A	H/A	N/A.	  R94-3934,R95-0518 ASME  SA-312 SCH 10, NC-2	UNK.	  Replacement	Yes/No  No 
ELBOWS 304 SS		H/A	H/A	N/A	(5)R95-0403 ASME SA-18	32 UNK.	Replacement	No
TEE 2" 304 SS		H/A	N/A	N/A	R95-0403 ASME SA-182	UNK.	Replacement	No I
DIAPHRA 2"	M VALVE	ITT GRINNELL	75-9104-30-3	\$N/A 	R95-0459 ASHE SA-351 GR CF8 VLV #341	1976	Replacement	No I
 	····			<u> </u>				
7.	Description of Worl	c:_PIPING, (5) ELE	BOWS, (1) TEE	AND (1) VAL	VE REPLACED DUE TO THRO	XUGH WALL LI	EAKAGE.	
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				<del></del>	•		· · · · · · · · · · · · · · · · · · ·	_
8.	Tests Conducted:	Hydrostatic: X	Pneuma	tic:	Nominal Operatin	ng Pressure	<del></del>	
		Other VT-2	Pressu	re <u>195</u>	psig Test Temperature	e <u>8</u>	<u>5</u> •F	

marks: ALL WELDING PERFORMED IN ACCOR	DANCE WITH APPROVED PLANT	PROCEDURES.	1
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	CERTIFICATE OF COMPLI	IANCE	1
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le certify that the statements made in	i the report are correct a	nd this replacement conforms	to the rules of the
ME Code, Section XI.	$a_{ij} = 1$	1	t = 1
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Type Code Symbol Stamp	N/A		· · · · · · · · · · · · · · · · · · ·
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Certificate of Authorization No	N/A	Expiration Date _	N/A
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Signed Should the	Comical Williams		19 5.5
Owner or Owner's Designer	Title		
		9	
			1 1
	CERTIFICATE OF INSERVICE	INSPECTION	
	0 1		1 1
I, the undersigned, holding a val			
inspectors and the state or Province	e of Dade County and emplo	yed by Arkwright Mutual Ins	urance Company of
Norwood, Ma. have inspected the comp	ponents described in this	Owners Report Idurling Ithe per	riod 02/11/95 to
		belief, the Owner has perfor	
taken corrective measures described			
Section XI.	0 1		
By signing this certificate neith	ner the Inspector nor his	employer makes any warranty	expressed or
implied, concerning the examinations			
neither the Inspector nor his employ			
damage or a loss of any kind arising			July Or property
damage or a toss of any kind allowe	J.Trom.or Connected with a	nis inspection.	
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1 . 1 1/1 /		F-A Notice Spa Acos	<u> </u>
Bunch Ble		Factory Mutual Eng. Asso	c.
Jesur 1 17 cm	Commissions	NB 8230 (N)(1)	- A Sadanaana
Inspectors Signature	and the second second	lational Board, State, Provi	dence, and Endorsemen
′ /	• • • • • • • • • • • • • • • • • • •	1	
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Date 4/12 1995	. The second second	• • • • • • • • • • • • • • • • • • •	
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1.	Owner Florida	Power & Light		<del></del>	Date	04/25/9	5	<del></del>
•	700 Universe E	Blvd. Juno Beach Fl Address	. 33408	1	- Sheet 1	of		
2.	Plant Turkey	Point Plant Name		_	Unit		445	
	9700 SW 344 St	treet, Florida City Address	/, Fl. 33034		Repair Organizati	on P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Florida Power & I Name	ight	<del>-</del>	Type Code Symbol Sta		H/A	
	P.O. Box 4332, Pr	inceton, Fl. 33032 Address	2		Expiration Date		N/A	
			ja.		System #:30			
	<ul><li>(a) Applicable Cons</li><li>(b) Applicable Edit</li><li>Identification of (</li></ul>	tion of Section XI	Utilized for	Repairs or	19 <u>55</u> Edition, Replacements 19 <u>89</u> Edition, ment Components			
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National   Board	Other   Identification	Year  Built	Replaced or	ASHE Code Stamp
READE	D ROO	N/A	N/A	N/A	1J-0091, SA-193, 3E207A	UNK.	Replacement	No
ITS (1 '4"	4)	N/A	N/A	h/a  - 	(8)R94-3949, (6)1J0019  SA-194 GR 2H 3E207A	UNK.	Replacement	No I
				<u> </u>			<u> </u>   	<u> </u>
			] 	[  }				<u> </u>
7.	Description of Work	k: SEVEN STUDS AN	D FOURTEEN NUT	S REPLACED	ON CCW HX A ACCESS DOOR.			
8.	Tests Conducted:	Hydrostatic:	Pneuma	ntic:	Nominal Operating F	Pressure		<del></del>
		Other	Pressu	ıre	psig Test Temperature		•F	

emarks: MECHANICAL CONNECTION, NO WELD	ING REQUIRED.		-	
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· · · · · · · · · · · · · · · · · · ·		<u> </u>		
	CERTIFICATE OF COM	PLIANCE	1 1 i	1 1 1
We certify that the statements made in	n the report are correct	and this replacement	conforms to	the rules of the
SHE Code, Section XI.		. 4		
			1 1 1	
Type Code Symbol Stamp	N/A	<u></u>	1 1 1	<del></del>
Certificate of Authorization No				
Signed Vanil France	! Technical M	Column Date /	nA45	10 97
Owner or Dwner's Designee	e, Title		<del></del>	
-	1	,		
		<u> </u>	1 1	<del></del>
	CERTIFICATE OF INSERVI	CE INSPECTION		
I, the undersigned, holding a val	lid commission issued by	the National Board of	f Boiler and	Pressure Vessel
inspectors and the state or Province	e of Dade County and emp	loyed by Arkuright Mui	tual Insuranc	e Company of
Norwood, Ma. have inspected the comp 04/24/95 and state that to the i	ponents described in thi best of my knowledge an			
taken corrective measures described				
Section XI.  By signing this certificate neith	her the Inspector nor hi	s employer makes any w	warranty, exp	ressed or
implied, concerning the examinations	s and corrective measure	s described in this O	uner's Report	. Furthermore,
neither the Inspector nor his employ damage or a loss of any kind arising	yer shall be liable in a g from or connected with	ny manner for any pers this inspection.	sonal injury	or property
	· · · · · · · · · · · · · · · · · · ·			
Sum Il		Factory Mutual E	na. Assoc.	
Mille of Star	Commissions	NB 8230 (N)(I)	· · · · · ·	
Inspector's Signature		National Board, State	e, Providence	, and Endorsemen
5/5	-			
Date		T. T. T. T. T. T. T. T. T. T. T. T. T. T		
			1 1	
			1 1 1	

1.	OwnerFlorida	Power & Light		_	Date	04/28/95	· .	
•	700 Universe B	Blyd. Juno Beach Fl Address	. 33408	-	Sheet1	of_	2	
2.	Plant <u>Turkey</u>	Point Plant Name		_	Unit	3 0 #: 950093	307 CR'#:	95+11
	9700 SW 344 St	treet, Florida City Address	, Fl. 33034		Repair Organiz	ation P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Florida Power & L Name	ight	<del>-</del>	Type Code Symbol Authorization No.		N/A	
	P.O. Box 4332, Pr	rinceton, Fl. 33032 Address		_	Expiration Date _		<u>N/A</u> .	
					System #:46			
5.	(a) Applicable Cons	struction Code	B:	31.1	19 <u>55</u> Editi	on, <u>NA</u> A	ddenda, <u>H/A</u> C	ode Cas
	(b) Applicable Edit				Replacements 19 <u>89</u> Editi ment Components	on <u>, N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National   Board		Year Built	Repaired Replaced or Replacement	ASHE Code Stamp Yes/No
PIPING 304 SS		N/A	N/A.	H/A	R95-0518 ASHE SA-312	UNK.	Replacement	No I
ELBOW 2	it.	H/A	N/A	H/A	R95-0637 ASHE SA-182	UNK.	Replacement	No
TEE 2"	<del></del>	H/A	N/A	N/A	R95-0637 ASME SA-182	UNK.	Replacement	Мо
304 SS U-BOLT	3"	BERGEN PATERSON	N/A	N/A	R92-2119 SUPPORT H-1 BP PART #283	UNK.	Replacement	No
] 			1	1	. <b>!</b>		<u> </u>	 
	·				1) ON 3A BORIC ACID TRA		DISCH.	
				1				
8.	Tests Conducted:	Hydrostatic: X	Pneuma	ntic:	Nominal Operatio	ng Pressure	·	
		Other VT-2/3	Pressu	ıre 190	_psig Test Temperature	e 8	32•F	

	FORM NIS-2 (	Back)	: :	
. Remarks: ALL WELDING PERFORMED IN ACCOR	RDANCE WITH APPROVED PL	ANT PROCEDURES.		
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		***	!!!	
		·		
	CERTIFICATE OF CO	MPL TANCE		
	, i		!!!!	
We certify that the statements made in ASME Code, Section XI.	n the report are correc	t and this replacement o	conforms to the	he rules of the
	· i		: : i	
Type Code Symbol Stamp		/A		
Certificate of Authorization No	N/A	Expiration	Date	N/A
Signed Affant Tea	burnel Morning	Date MI		19 55
Owner or Owner's Designe	e, Title			
			-	
· · · · · · · · · · · · · · · · · · ·	<del></del>	<del></del>		
	CERTIFICATE OF INSERV	VICE INSPECTION	! ! !	
I, the undersigned, holding a vainspectors and the state or Province Norwood, Ma. have inspected the composition of the taken corrective measures described Section XI.  By signing this certificate neity implied, concerning the examination neither the Inspector nor his employed damage or a loss of any kind arising the state of the section of the sect	ee of Dade County and en openents described in the best of my knowledge a in this Owners Report ther the Inspector nor in as and corrective measur over shall be liable in	mployed by Arkwright Muti- his Owners Report during and belief, the Owner has in accordance with the his employer makes any wares described in this Own any manner for any pers	ual Insurance the period s performed e requirements arranty, expr	Company of 04/04/95 to examinations and of the ASME Code, ressed or Furthermore,
Inspectors Signature	Commission	Factory Mutual Ens NB 8230 (N)(I) National Board, State		, and Endorsements

1. Owner Flori			_	Date	05/04/9	5	
	Name						
700 Universe	Blvd. Juno Beach F	1. 33408		Sheet1	of	2	
	Address						
2. PlantTurke	v Point Plant			Unit			
C. Ftant	Name		_	PWO #:8776/63 WO	#: 95010	012	
9700 SU 344	Street, Florida Cit	v. fl. 33034					
	Address			Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. Work Performed by	Florida Power &	Light		Type Code Symbol St	апр	N/A	
•	Name		_	Authorization No		N/A	
P.O. Box 4332,	Princeton, Fl. 3303	2 1	<del>_</del>	Expiration Date		H/A	
4. Identification of	System:	COMPONENT COOL	ING	System #:30	_Quality	Group: C	
5. (a) Applicable Co	onstruction Code	В	31.1	19 <u>55_</u> Edition	1 <u>, NA</u> A	ddenda, N/A C	ode Cas
the Applicable Ca	dialog of Coopies VI	lieilimed for	Damaina an	Replacements 19 <u>89</u> Edition	. U/A A	ddanda N/A F	'oda Coc
(b) Applicable Ed	ittion of Section XI	Utilized for	kepairs or	Reptacements 19 <u>09 Edition</u>	', <u>"/^</u>	oderka, <u>n/A</u>	oue cas
6. Identification of	Components Repaire	ed or Replaced	and Replace	ement Components			
Name of	Name of	Manufacturer	•	Other	Year	•	ASHE
Component	Manufacturer	Serial No.	Board	Identification	Buitt	Replaced or Replacement	Code
		l	i i		i	Keptaceskiit	Yes/No
HREADED ROD	N/A	N/A	N/A	1J0091 3E207C CCW HX	UNK.	Replacement	Но
2 STUDS) UTS	lh/A	H/A	IN/A	R94-3949 3E207C CCW HX	luxr.	Replacement	No
4 NUTS)					1	i i i i i i i i i i i i i i i i i i i	
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7. Description of W	ork: TWO STUDS AND	FOUR NUTS REPL	ACED ON CC	HEAT EXCHANGER C.			
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		<u> </u>	~		······································	<u> </u>	
8. Tests Conducted:	Hydrostatic:	Pneum	atic:	Nominal Operating	Pressur	e	
	Other	Pressi	ure	psig Test Temperature_		•F	,
			··· -				

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	FORM NIS-2 (Back)	) (	
Remarks: MECHANICAL CONNECTION, NO WELDING REQUIR	ED		
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CERTI	FICATE OF COMPLIANCE	•	
We certify that the statements made in the repor ASME Code, Section XI.	t are correct and thi	s replacement conforms	to the rules of the
Type Code Symbol Stamp	N/A		 
Certificate of Authorization No. N/A	. :	Expiration Date _	H/A
Signed DI Frances: Technica	Manager	Date Man 5	·
øwner or Owner's Designee, Title			
		<del></del>	: 
		<del></del>	
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I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 04/07/95 to 05/04/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Factory Mutual Eng. Assoc.

NB 8230 (N)(I)

National Board, State, Providence, and Endorsements

1. OwnerFlori	da Power & Light		_	Date	05/17/9	5	
.700 Universe	Blvd. Juno Beach Fl Address	. 33408	_	Sheet1	of_	2	
2. Plant <u>Turke</u>	ey Point Plant Name			Unit		487	
9700 SW 344	Street, Florida City Address	/, Fl. 33034		Repair Organizati	on PiO.	No.,Job No.,e	tc
3. Work Performed by	/ Florida Power & L Name	.ight	_	Type Code Symbol Sta Authorization No Expiration Date		N/A	<u>—</u>
P.O. Box 4332,	Princeton, Ft. 33033 Address	2	<del></del>				
	<del></del>			System #:30 19 <u>55_</u> Edition,			ode Cas
(b) Applicable Ed				Replacements 19 <u>89</u> Edition, ment Components	<u> </u>	ddenda <u>, N/A</u> C	ode Cas
Name of Component	Name of Hanufacturer	Manufacturer Serial No.	National Board	Other   Identification	Year  Built	Repaired Replaced or Replacement	•
ALL THREAD (STUDS)	N/A	N/A	N/A	1J0091 3E207C CCW HX	UNK.	Replacement	Yes/No
NUTS (54 NUTS)	N/A I	N/A	N/A I	R94-3949 3E207C CCW HX	UNK.	Replacement	No
					<u> </u>		<u> </u>
7. Description of W	ork: COMPONENT COOL	ING WATER HEAT	EXCHANGER	C BOLTING REPLACED.			
· · · · · · · · · · · · · · · · · · ·							<del></del>
<del></del>							
8. Tests Conducted:	Hydrostatic:	Pneuma	ntic:	Nominal Operating	Pressure	·	
	Other	Pressu	1re	_psig Test Temperature		+•F	

emarks: MECHANICAL CONNECTION, NO WELD	ING REQUIRED.					
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A STATE OF THE STA				:		<del>- · · · · · · · · · · · · · · · · · · ·</del>
-				ų !	<del></del>	
	CERTIFICAT	E OF COMPLI	ANČE	!		, i i i i
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e certify that the statements made in	the report are	correct an	d this repla	cement confor	ms to the r	ules of the
ME Code, Section XI.	4	i	10			
	1	l i		1	1 1	
Type Code Symbol Stamp	·	N/A	·	: 	: i	· · · · · · · · · · · · · · · · · · ·
Certificate of Authorization No.			Exp	- !		<u>'A</u>
signed Sauil Fine	zert. Tec	hord h	argen Dat	MAY?	26	19 95
Owner or Owner's Designed	Title					·
				!		
	· · · · · · · · · · · · · · · · · · ·			<del></del>	-	<del></del>
	,-			!		
	CERTIFICATE OF	INSERVICE	INSPECTION	:		
I, the undersigned, holding a valinspectors and the state or Province Norwood, Ma. have inspected the comp 05/17/95 and state that to the b taken corrective measures described Section XI.  By signing this certificate neith implied, concerning the examinations neither the Inspector nor his employ damage or a loss of any kind arising	e of Dade County conents describe cest of my know in this Owners her the Inspecto s and corrective yer shall be lie	y and employed in this ( aledge and be Report in a proper nor his come measures ( able in any	yed by Arkuri Duners Report Delief, the O accordance wi employer make described in manner for a	ght Mutual Inducting the puner has personal that the requirements of the second states of the second	nsurance Comperiod 04 formed exami rements of t ty, expresso Report. Fur	mpany of 1/28/95 to inations and the ASME Code ed or rthermore,
Munich Will a		: : 		tual Eng.∠As	soc.	
Mul of the	Com	missions	NB 8230 (N			·
Inspectors signature		i in	ational Board	, State, Pro	vidence, and	i Endorsemen
Inspectors Signature  Dat May 29 1955			1 1 1			
. 0				:		
	1	!				

i. Uwner Flor	ida Power & Light		_	Date	06/14/99	5	
	Name						
700 Univers	se Blvd. Juno Beach F	133408	_	Sheet1	of_	2	
	Address						
2. PlantTurk	ey Point Plant	P		Unit	3		
	Name	•		Unit	<b>#:</b> 950024	¥52	
0700 cu 3//	Street, Florida Cit	v El 33034		PCM #: 94-093			
	Address	7, 71. 33034	_	Repair Organizati	ion P.O.	No.,Job No.,e	tc
7	of attack to become 0			Time Orde Ormbel Obe		11.44	
3. Work Performed t	by Florida Power & Name	Light	<b>—</b>	Type Code Symbol Sta Authorization No			
	Haire			Expiration Date			
P.O. Box 4332	Princeton, Fl. 3303 Address	2	<u> </u>				
4. Identification	of System.	COMPONENT COOL	ING	System #:30	Quality	Group: C	
5. (a) Applicable (	Construction Code	В	31.1	19 <u>55_</u> Edition	<u>, NA</u> A	ddenda, <u>N/A</u> C	ode Cas
(b) Apolicable:	Edition of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition	, N/A A	ddenda. N/A C	ode Cas
					-	•	
6. Identification	of Components Repaire	ed or Replaced	and Replace	ment Components			
Name of	Name of	Manufacturer	National	Other	Year	Repaired	ASHE
Component	Manufacturer	Serial No.	Board	Identification	Built	Replaced or	Code
	!	-!	ļ	!		Replacement	: -
		N/A	N/A	R95-0816 ASTH A-500-90	-l	Replacement	Yes/No
TUBE STEEL	IN/A						i
	N/A 	<u> </u>	<u> </u>	CCW SUPPORT HARK' #A	_ <u>i</u>	<u> </u>	<del></del>
TUBE STEEL 3"X3"X1/4" PLATE 3/4"	N/A	N/A	N/A	R93-0659 ASTH A-36-91	_ <u>i</u>	Replacement	No.
3"X3"X1/4" PLATE 3/4"	N/A	I'	<u> </u>	R93-0659 ASTH A-36-91 CCW SUPPORT MARK #A	UNK.	<u> </u>	No.
3"X3"X1/4" PLATE 3/4" ANCHOR STUD (9)		<u> </u>	   H/A     H/A	R93-0659 ASTH A-36-91	UNK.	Replacement	<u> </u>
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9) KWIK BOLT II ANCHOR STUD (3)	N/A	I'	<u> </u>	R93-0659 ASTM A-36-91 CCW SUPPORT MARK #A R93-1222 KVIK BOLT II  58-6 PART #453720  R90-0744 KVIK BOLT II	UNK.	<u> </u>	<u> </u>
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9) KWIK BOLT II ANCHOR STUD (3)	N/A   HILTI		h/A	R93-0659 ASTM A-36-91 CCW SUPPORT MARK #A R93-1222 KWIK BOLT II  58-6 PART #453720	UNK.	  Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)	N/A   HILTI		h/A	R93-0659 ASTM A-36-91 CCW SUPPORT MARK #A R93-1222 KVIK BOLT II  58-6 PART #453720  R90-0744 KVIK BOLT II	UNK.	  Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II	HILTI HILTI	H/A H/A	IN/A	R93-0659 ASTM A-36-91 [CCW SUPPORT MARK #A R93-1222 KWIK BOLT II  58-6 PART #453720 R90-0744 KWIK BOLT II  58-7 PART #453738	UNK.	Replacement   Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II	HILTI HILTI	H/A H/A	IN/A	R93-0659 ASTM A-36-91 CCW SUPPORT MARK #A R93-1222 KVIK BOLT II  58-6 PART #453720  R90-0744 KVIK BOLT II	UNK.	Replacement   Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II  7. Description of	HILTI HILTI HILTI Work: COMPONENT COOL	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	IN/A IN/A ORT IN THE	R93-0659 ASTM A-36-91   CCW SUPPORT MARK #A   R93-1222 KWIK BOLT II   58-6 PART #453720   R90-0744 KWIK BOLT II   58-7 PART #453738   CHARGING PUMP ROOM MODIFI	UNK.	Replacement   Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II  7. Description of	HILTI HILTI HILTI Work: COMPONENT COOL	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	IN/A IN/A ORT IN THE	R93-0659 ASTM A-36-91 [CCW SUPPORT MARK #A R93-1222 KWIK BOLT II  58-6 PART #453720 R90-0744 KWIK BOLT II  58-7 PART #453738	UNK.	Replacement   Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II  7. Description of  CHARGING PUMPS	HILTI HILTI HILTI Work: COMPONENT COOL	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	R93-0659 ASTM A-36-91   CCW SUPPORT MARK #A   R93-1222 KWIK BOLT II   58-6 PART #453720   R90-0744 KWIK BOLT II   58-7 PART #453738   CHARGING PUMP ROOM MODIFI	UNK.	Replacement   Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II  7. Description of  CHARGING PUMPS	HILTI HILTI HILTI Work: COMPONENT COOL	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	R93-0659 ASTM A-36-91 [CCW SUPPORT MARK #A [R93-1222 KWIK BOLT II [58-6 PART #453720 [R90-0744 KWIK BOLT II [58-7 PART #453738 ] [CHARGING PUMP ROOM MODIFI	UNK.	Replacement   Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II  7. Description of  CHARGING PUMPS	HILTI HILTI HILTI Work: COMPONENT COOL	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	R93-0659 ASTM A-36-91 [CCW SUPPORT MARK #A [R93-1222 KWIK BOLT II [58-6 PART #453720 [R90-0744 KWIK BOLT II [58-7 PART #453738 ] [CHARGING PUMP ROOM MODIFI	UNK.	Replacement   Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II  7. Description of CHARGING PUMPS	HILTI HILTI HILTI Work: COMPONENT COOL	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	R93-0659 ASTM A-36-91 [CCW SUPPORT MARK #A [R93-1222 KWIK BOLT II [58-6 PART #453720 [R90-0744 KWIK BOLT II [58-7 PART #453738 ] [CHARGING PUMP ROOM MODIFI	UNK.	Replacement   Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II  7. Description of  CHARGING PUMPS	HILTI HILTI HILTI Work: COMPONENT COOL	N/A N/A N/A N/A N/A LING WATER SUPPORT	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	R93-0659 ASTM A-36-91 [CCW SUPPORT MARK #A [R93-1222 KWIK BOLT II [58-6 PART #453720 [R90-0744 KWIK BOLT II [58-7 PART #453738 ] [CHARGING PUMP ROOM MODIFI	UNK.	Replacement    Replacement	No
3"X3"X1/4" PLATE 3/4"  ANCHOR STUD (9)  KWIK BOLT II  ANCHOR STUD (3)  KWIK BOLT II  7. Description of  CHARGING PUMPS  ANCHORS REPLACE	HILTI HILTI HOPE  COMPONENT COOL  A, B AND C CASING REP  D ON COMPONENT COOLII	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	R93-0659 ASTM A-36-91 [CCW SUPPORT MARK #A [R93-1222 KWIK BOLT II [58-6 PART #453720 [R90-0744 KWIK BOLT II [58-7 PART #453738 ] [CHARGING PUMP ROOM HODIFI	UNK.	Replacement Replacement Replacement	No

emarks: ALL WELDING PERFORMED IN ACCO	RDANCE WITH APPROVED PLANT	PROCEDURES.	! 
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	CERTIFICATE OF COMPL	IANCE	l I
We certify that the statements made i SME Code, Section XI.	n the report are correct a	nd this replacement conforms	to the rules of the
Type Code Symbol Stamp	H/A		
Certificate of Authorization No.	N/A	Expiration Date	N/A
/	Testimical rilan		11 ac
Signed Owner or Owner's Designed		25.7. Date 0062	<u>/6 19 /3</u>
OMIREL OF OMIRER'S DESIGN	38, 11008		!
	- 10 j D		
	CERTIFICATE OF INSERVICE	: INSPECTION	
i, the undersigned, holding a vinspectors and the state or Proving Norwood, Ma. have inspected the conde/14/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate nei implied, concerning the examination neither the Inspector nor his empl	ce of Dade County and emplo mponents described in this best of my knowledge and d in this Owners Report in ther the Inspector nor his and corrective measures	oyed by Arkwright Mutual Insu Owners:Report:during:the per belief, the Owner has perfor accordance with the requirem employer makes any warranty, described:in this Owner's Re	rance Company of iod 01/25/95 to med examinations and ents of the ASME Cod expressed or port. Furthermore,
damage or a loss of any kind arisi	ng from or connected with	this inspection.	
		: :	i I
Munit St.	Carriagiona	Factory Mutual Eng. Associate NB 8230 (N)(I)	•
Inspectors Signature	Commissions	National Board, State, Provid	lence, and Endorsemen
	) i	1 1	
Date 6/16 1995			:
7	<del>-</del> , ; ' '		
,	. !	: :	l I

1.	Owner Florida	Power & Light Name	<del></del>		Date	09/17/9	5	
	700 Universe B	llvd. Juno Beach Fl Address	33408		Sheet1	of_	_ 2	
2.	PlantTurkey	Point Plant Name		1	Unit	3 #: 94012		
	9700 SW 344 St	reet, Florida City Address	/, FL. 33034	_	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3.	Work Performed by	Name		_	Type Code Symbol Standard Authorization No Expiration Date		N/A	
		Address		<b>_</b>				
		•			System #:20 19 <u>55_</u> Edition			
6.	(b) Applicable Edit Identification of (				Replacements 19 <u>89</u> Edition ment Components	<u>, n/a</u> a	ddenda, <u>N/A</u> C	ode Cas
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Repaired Replaced or Replacement	
OBE \		CRANE	UNKNOWN	N/A	MOV-3-832, ASTM A216	UNK.	Replaced	Yes/No  No 
OBE \	/LV	CRANE	C5266	N/A	MOV-3-832, ASTM A216 GRADE WCB	UNK.	Replacement	Но
		<u> </u>		<u> </u> 			]	<u> </u>
					!			<u> </u>
7.	Description of Wor	k: MOV-3-832 REPL	ACED DUE TO SE	AT LEAKAGE.	5	*		
					•			
.8.	Tests Conducted:	Hydrostatic: >						

CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this replacement conforms to the rules of this code, Section XI.  Type Code Symbol Stamp		
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp	emarks: ALL WELDING PERFORMED IN ACCORDANCE WITH	APPROVED PLANT PROCEDURES.
Use certify that the statements made in the report are correct and this replacement conforms to the rules of the ISME Code, Section XI.  Itype Code Symbol Stamp N/A  Certificate of Authorization No. N/A Expiration Date N/A  Signed Signed Stamp Date N/A  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkuright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 10/06/94 09/16/95 and state that to the best of my knowledge and belief, the Owner has performed examinations at taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Conserving the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Reactory Mutual Eng. Assoc.  Commissions NAB 8230 (N)(1)		
Certificate of Authorization No.  Signed Signed Owner's Designee, Title  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkuright Hutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period of 10/06/94 09/16/95 and state that to the best of my knowledge and belief, the Owner has performed examinations at taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Cosetion XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions NB 8230 (N)(I)		
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Type Code Symbol Stamp  N/A  Certificate of Authorization No.  Signed Signed Owner's Designee, Title  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkuright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period of 10/06/94 09/16/95 and state that to the best of my knowledge and belief, the Owner has performed examinations at taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Company of implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions NB 8230 (N)(1)	CERTIA	FICATE OF COMPLIANCE
Type Code Symbol Stamp  N/A  Certificate of Authorization No.  Signed Maria Town  Owner's Designee, Title  CERTIFICATE OF INSERVICE INSPECTION  1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkuright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 10/06/94 09/16/95 and state that to the best of my knowledge and belief, the Owner has performed examinations at taken corrective measures described in this Owners Report in accordance with the requirements of the ASME-C Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Factory Mutual Eng. Assoc.  NB 8230 (N)(I)	<b>V</b>	
Certificate of Authorization No. N/A Expiration Date N/A  Signed Authorization No. N/A Expiration Date N/A  Owner or Owner's Designee, Title  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 10/06/94  109/16/95 and state that to the best of my knowledge and belief, the Owner has performed examinations at taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Constitution of the County of the Inspector of the Inspector or his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Factory Mutual Eng. Assoc.  NB 8230 (N)(I)	le certify that the statements made in the report	t are correct and this replacement conforms to the rules of the
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damage or a loss of any kind arising from or connected with this inspection.  Factory Mutual Eng. Assoc.  Commissions NB 8230 (N)(1)		
Auni & Stan Commissions NB 8230 (N)(1)		
Commissions NB 8230 (N)(I)	damage or a loss of any kind arising from or c	connected with this inspection.
(M) (1) (N) (1)		
(N) (1) Commissions NB 8230 (N)(1)		Factory Mutual Eng. Assoc.
	Million Hand	
Date Sept 23 1995	Inspectors Signature	
Date Sept 23 1995		
Date XII A 19 75	1 / 13 0	
	Date 19 75	

1.	Owner Florida	Power & Light		_	Date	09/22/95	3	
	700 Universe 8	lvd. Juno Beach Fl Address	. 33408	<del></del>	Sheet1	of_	2	
2.	Plant <u>Turkey</u>	Point Plant Name		_	Unit PWO #:1973/63 WO #	3 : 950187	723	
	9700 SW 344 St	reet, Florida City Address	/, Fl. 33034	<del>-</del>	Repair Organizati	on P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & L Name	.ight		Type Code Symbol Sta Authorization No Expiration Date		N/A	
	·	rinceton, Fl. 33032 Address		<del></del>				
					System #:19 19 <u>55_</u> Edition,			
6.	(b) Applicable Edit	•			Replacements 19 <u>89</u> Edition, ment Components	<u> </u>	ddenda <u>, N/A</u> C	ode Case
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National   Board	Other   Identification	Year Built	Repaired Replaced or Replacement	ASME   Code  Stamp  Yes/No
UD 1/2"	X 1"	HAYWARD	H/A	N/A	BS-3-1402, ASTH A193-89	UNK.	Replacement	No
			ļ.	    	1	<u> </u>	<u> </u>	
	,			ļ.				
7.	COOLING WATER SUPP				WARD STRAINER MODEL B514FE SER A BS-3-1402.	B ON IN	TAKE	<del></del>
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					Northern Court (1977)	0		_
8.	Tests Conducted:	Hydrostatic:Other	Pneuma Pressu	re	Nominal Operating  _psig    Test Temperature			

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Remarks: MECHANICAL_CONNECTION, NO WELD	ING REQUIRED.			
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	CEDTICICATE	OF COMPLIANCE	!	
	CERTIFICATE	OF COMPLIANCE		
We certify that the statements made in	the report are	correct and this	replacement confo	orms to the rules of the
SME Code, Section XI.		1		
<b>v</b>		i	1	r i
			!	
Type Code Symbol Stamp	· · · · · · · · · · · · · · · · · · ·	. N/A		<del></del>
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Certificate of Authorization No	N/A	1 + 1 + 1 1	Expiration Date	P N/A
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Signed Much 9 Johnson	· Menty 1800	(3.1. cal 10 1. 30. 30. 30.	Date	19 /
Owner of Owner's Designed	ATITLE /			1 .
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2		<del></del>	<del></del>	<del></del>
		<u> </u>	<del></del>	
		1	1	
	CERTIFICATE OF	INSERVICE INSPEC	HOIT	
		1	1	i I
1, the undersigned, holding a val	lid commission is	sued by the Nati	onal Board of Boi	ler and Pressure Vessel
inspectors and the state of Province				
Norwood, Ma. have inspected the com				
				rformed examinations an
taken corrective measures described				
Section XI.	III CIII O OMICI O K	Choi ( III accordi	noc aren ene requ	Trementes of the Adile Co
By signing this certificate neitl	on the Inchestor	inon'hio' omelove	n makaa amu uanaa	ntis avanagad an
implied, concerning the examination				
neither the Inspector nor his employ				injury or property
damage or a loss of any kind arisin	g from or connect	ed with this ins	pection.	
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				1 1
Kennight Kl I			tory Mutual Eng. A	ssoc.
Mille By Hear	Comi		3230 (N)(I)	
Inspectors Signature	•	National	Board, State, Pr	ovidence, and Endorseme
/ // .			1	H H
/ / /az C			!	
Date SLAT - 1975				
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•		1	!	1
			!	

1.	Owner <u>Florida</u>	Power & Light Name			Date	09/22/95	;	
	700 Universe B	lvd. Juno Beach Fl Address	. 33408		Sheet1	of_	2	
2.	PlantTurkey	Point Plant Name		_	Unit			<u>-</u>
,	9700 SW 344 St	reet, Florida City Address	/, Fl. 33034		Repair Organizat	ion P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & I Name	ight	<del></del>	Type Code Symbol Sta		N/A	
	P.O. Box 4332, Pr	Address	2	_	Expiration Date			
					System #:75			
5.	(a) Applicable Cons	truction Code	B;	31.1	19 <u>55_</u> Edition	<u>NA</u> A	ddenda <u>, N/A</u> C	ode Case
	(b) Applicable Edit			-	Replacements 19 <u>89</u> Edition, ment Components	, <u>n/a</u> a	ddenda, <u>N/A</u> C	ode Case
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National   Board	Other   Identification	Year Built	Replaced or	ASME Code Stamp
		1		i	i	i ,	i	Vac (Na
LVE B	SONNET E	PACIFIC	0944-2	N/A	R93-1467 AFPD-3-008	UNK.	  Replacement	Yes/No No
		PACIFIC	0944-2	N/A	R93-1467 AFPD-3-008	UNK.	i	
		PACIFIC	0944-2		R93-1467 AFPD-3-008	UNK.	i	
		PACIFIC	0944-2	H/A	R93-1467 AFPD-3-008	UNK.	i	
GATE					R93-1467 AFPD-3-008		Replacement	
GATE		k: BONNET AND BOL	TING REPLACED	AND FOUR (4	) 3/8" HOLES DRILLED THRO		Replacement	
GATE	Description of Work	k: BONNET AND BOL	TING REPLACED	AND FOUR (4	) 3/8" HOLES DRILLED THRO		Replacement	
GATE	Description of Work	K: BONNET AND BOL	TING REPLACED	AND FOUR (4	) 3/8" HOLES DRILLED THRO		Replacement	
GATE	Description of Work	K: BONNET AND BOL	TING REPLACED	AND FOUR (4	) 3/8" HOLES DRILLED THRO		Replacement	
' GATE	Description of Work	K: BONNET AND BOL	TING REPLACED ON/REMOVAL.	AND FOUR (4	3/8" HOLES DRILLED THRO	UGH VALV	Replacement	

	FORM NI	S-2 (Back)			:	1	1 1	1 1
emarks: MECHANICAL CONNECTION, NO WELDING R	EQUIRED.		1 1				<u></u>	
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	1		*		: 1	*	*****	
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		·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·		<del></del>		
	CERTIFICATE	OF COMPLIANCE		:	: !	I		1 1
the considerable above conductors and for the			·	: 	ا لماد			£ 168 1
We certify that the statements made in the SME Code, Section XI.	report are c	orrect and th	s replacem	ent confor	ms to	the r	ulesio	it ithe
•		i			: 1			
Type Code Symbol Stamp		N/A						
	ν,			!	!!!			
Certificate of Authorization No.	N/A .		1	ion Date		N/A	Α	··············
Signed Whill Timezent	Acto Te	shried blin		Soto	<u> 24</u>		19	Es:
Owner of Owner's Designee, Tit	le 🧷	!	1		1 1			
<u> </u>		· 	<del> </del>					
			<del></del>		<del>-</del>	· · · · · ·	·	
	IFICATE OF I	NSERVICE INSPI	ECTION	1	!!!			•
CERT	,	i						
I, the undersigned, holding a valid or inspectors and the state or Province of D Norwood, Ma. have inspected the component 09/17/95 and state that to the best of taken corrective measures described in the Section XI.  By signing this certificate neither the implied, concerning the examinations and neither the Inspector nor his employer strange or a loss of any kind arising from	ommission issolate County at the County at t	ued by the Na ind employed by in this Owner; edge and belie port in accordance nor his employees neasures describe in any mann	Arkuright Report du f, the Owne dance with yer makes a ibed in thi er for any	Mutual Ir ring the p r has peri the requir ny warrant s Owner's	surar eriod ormed ement y, ex Repor	ce Com 1 05 1 exami 2 of t 2 presse 2 Fur	pany o /10/95 hation he ASM d or thermo	of to as land IE Code

1. Owner Flori				Date	09/26/95	;	
	Name			<b>c</b> u			
700 Universe	Blvd. Juno Beach F	1. 33408	_	Sheet 1	of_	2	
	Address						
2. Plant Turke			_	Unit	3		
	Name			WO #: 95024462			
9700 SW 344	Street, Florida Cit Address	y, Fl. 33034	_	Repair Organizat	tion P.O.	No.,Job No.,e	tc
3. Work Performed by	/ Florida Bouer &	Licht		Type Code Symbol St	tamo	N/A	
3. Work Performed by	Name	<u> crane</u>		Authorization No.		N/A_	
		_		Expiration Date		N/A	
P.O. Box 4332,	Princeton, Fl. 3303 Address	2	_				
4. Identification of	f System:	INTAKE COOLING	WATER	System #:19	Quality	Group: C	
5. (a) Applicable Co	onstruction Code	8.	31.1	19 <u>55_</u> Edition	n, <u> na</u> a	odenda, <u>N/A</u> C	ode cas
(b) Applicable Ed	dition of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition	n <u>, N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
6. Identification of	f Components Repaire	ed or Replaced	and Replace	ement Components			
Name of	Name of	Manufacturer	National	Other	Year	Repaired	ASHE
Component	Manufacturer	Serial No.	Board	Identification	Built	Replaced or	Code
	ļ	ļ	ļ	1	}	Replacement	Stamp
ECK VALVE	MISSION VLV	W6726	IN/A	3-50-311 DUO-CHEK	LUNK.	Replaced	Yes/No
		1				<u> </u>	<u>i</u>
IECK VALVE	MISSION VLV	75203	N/A	R95-0795 3-50-311	UNK.	Replacement	Мо
rups (2)		N/A	IN/A	R95-0154	lunk.	Replacement	No
003 (2)		1000					<u> </u>
JTS (6)	N/A	H/A	N/A	R93-1956 ASTH A563	UNK.	Replacement	Но
		_					<u> </u>
			ــــــــــــــــــــــــــــــــــــــ				1
7. Description of W	ork: CHECK VALVE,	TWO STUDS AND S	SIX NUTS REI	PLACED.			
			<del>-</del>	, <del></del>	<del></del>		
	•						
<del></del>		<u> </u>		<del></del>			
				•			
8. Tests Conducted:	: Hydrostatic:	Pneum	atic:	Nominal Operating	g Pressur	eX	
21 10010 0011000000		·		<del></del>			
	Other <u>VT-2</u>	Press	ure <u>27.5</u>	_psig Test Temperature		87•F	

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Remarks: MECHANICAL CONNECTION NO WELD	ING REQUIRED.			
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			! !	
	CERTIFICATE OF COMP	LIANCE		
	1		1 1	
We certify that the statements made i	n the report are correct	and this replacement co	nforms to the rules o	of the
SME Code, Section XI.	0.00		1 1	
	- i		1 1 1 1 1 1 1	
Type Code Symbol Stamp	N/A		1 i	
Type code Symbol Stamp		, ,	<del></del>	
Certificate of Authorization No	N/A	Expiration D	Jie N/A	
1 - 1 - 2			·	
Signed Mant of Towner		1 Maxid Date Si	0167, 19	25
Owner or Owner's Dayigne	e, Title		= 1	
	0.00		1 1	
· · · · · · · · · · · · · · · · · · ·	<del></del>			
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	CERTIFICATE OF INSERVICE	E INCOECTION		
	CERTIFICATE OF INSERVICE	E INSPECTION	r r l	
I, the undersigned, holding a va	lid commission issued by	the National Board of B	oiler and Pressure Vo	essel
inspectors and the state or Province				
Norwood, Ma. have inspected the con				
09/20/95 and state that to the	best of my knowledge and	belief, the Owner has	performed examination	ns and
taken corrective measures described	I in this Owners Report∣ir	accordance with the re	quirements of the ASI	4E Code,
Section XI.	1		!!!!	
By signing this certificate neit				
implied, concerning the examination				
neither the Inspector nor his emplo			al injury or propert	Y
damage or a loss of any kind arising	ng from or connected with	this inspection.	1 1 1	
			1 1	
		Castlema Market Land	*	
MILLION Stan	Commissions	Factory Mutual Eng. NB 8230 (N)(I)	ASSOC.	
Inspectors Signature	Comissions	National Board, State,	Providence and Endo	reamente
/ inspector's sagnature		Hattonat Board, State,	Providence, and Limo	i Schettes
/ // /	· i			
Dato lept 25 1995				
	•			1 1
			1 1	

1. Owner	Florida	Power & Light Name			Date	10/10/95	<u>;</u>	
700	) Universe B	lvd. Juno Beach F Address	1. 33408	<del></del>	Sheet 1	of_	2	
2. Plant	Turkey	Point Plant Name		<u>.</u>	Unit PWO #:0069/63	3 WO #: 950114	453	
970	00 SW 344 St	reet, Florida City Address	y, Fl. 33034	<del>_</del>	Repair Organ	ization P.O.	No.,Job No.,e	tc
3. Work Pe	rformed by <u>.</u>	Florida Power &   Name	Light	<del>-</del>	Type Code Symbo Authorization No Expiration Date	o	N/A	
P.O. 1	Box 4332, Pr	Address	2	_	·			
4. Identif	ication of S	System:	INTAKE COOLING	1	System #:19	Quality	Group: C	
5. (a) App	licable Cons	struction Code	8:	31.1	19 <u>55_</u> Edi	tion, NA Ac	ddenda, <u>N/A</u> C	ode Cas
		ion of Section XI		•	Replacements 19 <u>89</u> Edi	tion, N/A Ad	ddenda, <u>N/A</u> C	ode Cas
Name ( Compon		Name of Hanufacturer	Manufacturer Serial No.	National Board	Other   Identificatio	Year n Built	Replaced or	ASME Code Stamp Yes/No
ruo (1)		H/A	H/A	H/A .	R95-0154 ICW PIPING SPOOL PIECE	UNK.	Replacement	No
		,	ļ. 	<u> </u>			<u> </u>	<u> </u>
					!	1	1	
****								
							<u> </u>	<del> </del>
7. Descrip	tion of Worl	K: OHE STUD REPLA	ICED ON ICW SPO	OL PIECE.				<u>-</u>
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	· · · · · · · · · · · · · · · · · · ·						<del></del>	
, <del></del>	<del></del>							
8. Tests 0		Hydrostatic:		atic:		ting Pressure	)	
		Other	Pressu	ure	psig Test Temperatu	ure	•F	

ACCUMITOR COMPOSTION NO THE		
marks: MECHANICAL CONNECTION, NO WEL	LDING REQUIRED.	
	<del>-                                    </del>	
	1 1	·
		<u> </u>
	· · · · · · · · · · · · · · · · · · ·	
	CERTIFICATE OF COMPLIANCE	
•	in the report are correct and this replacement conforms to the rules	of the
E Code, Section XI.		
ype Code Symbol Stamp	1 1 N/A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1		
ertificate of Authorization No	N/A Expiration Date N/A	
igned Kaw Banasal for I	DRPONELL YECH DERT MANAGER Date 10/16 1	9 95
		7
PAU BANASZAK		
	CERTIFICATE OF INSERVICE INSPECTION	
	CERTIFICATE OF INSERVICE INSPECTION	
inspectors and the state or Provin Norwood, Ma. have inspected the co 09/20/95 and state that to the	valid commission issued by the National Board of Boiler and Pressure Name of Dade County and employed by Arkwright Mutual Insurance Company components described in this Owners Report during the period 09/04/9 e best of my knowledge and belief, the Owner has performed examination	of: 25 to ons and
inspectors and the state or Provin Norwood, Ha. have inspected the co 09/20/95 and state that to the taken corrective measures describe	valid commission issued by the National Board of Boiler and Pressure Name of Dade County and employed by Arkwright Mutual Insurance Company omponents described in this Owners Report during the period 09/04/9	of: 25 to ons and
inspectors and the state or Provin Norwood, Ha. have inspected the co 09/20/95 and state that to the taken corrective measures describe Section XI.	valid commission issued by the National Board of Boiler and Pressure Name of Dade County and employed by Arkuright Mutual Insurance Company omponents described in this Owners Report during the period 09/04/9 e best of my knowledge and belief, the Owner has performed examinationed in this Owners Report in accordance with the requirements of the Assert	of: 25 to ons and
inspectors and the state or Provin Norwood, Ha. have inspected the co 09/20/95 and state that to the taken corrective measures describe Section XI. By signing this certificate nei	valid commission issued by the National Board of Boiler and Pressure Name of Dade County and employed by Arkwright Mutual Insurance Company components described in this Owners Report during the period 09/04/9 e best of my knowledge and belief, the Owner has performed examination	of to ons and SME Cod
inspectors and the state or Provin Norwood, Ha. have inspected the co 09/20/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate nei implied, concerning the examination neither the Inspector nor his empl	valid commission issued by the National Board of Boiler and Pressure Nace of Dade County and employed by Arkuright Mutual Insurance Company omponents described in this Owners Report during the period 09/04/3 e best of my knowledge and belief, the Owner has performed examinationed in this Owners Report in accordance with the requirements of the Assistant the Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. Further loyer shall be liable in any manner for any personal injury or proper	of tooms and SME Coo
inspectors and the state or Provin Norwood, Ma. have inspected the co 09/20/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate nei implied, concerning the examination neither the Inspector nor his empl	valid commission issued by the National Board of Boiler and Pressure Nace of Dade County and employed by Arkuright Mutual Insurance Company omponents described in this Owners Report during the period 09/04/5 e best of my knowledge and belief, the Owner has performed examinationed in this Owners Report in accordance with the requirements of the Assistant the Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. Further	of tooms and SME Coo
inspectors and the state or Provin Norwood, Ma. have inspected the co 09/20/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate nei implied, concerning the examination either the inspector nor his empl damage or a loss of any kind arisi	valid commission issued by the National Board of Boiler and Pressure Nace of Dade County and employed by Arkuright Mutual Insurance Company omponents described in this Owners Report during the period 09/04/3 e best of my knowledge and belief, the Owner has performed examinationed in this Owners Report in accordance with the requirements of the Assistant the Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. Further loyer shall be liable in any manner for any personal injury or proper	of tooms and SME Coo
inspectors and the state or Provin Norwood, Ma. have inspected the co 09/20/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate nei implied, concerning the examination either the inspector nor his empl damage or a loss of any kind arisi	valid commission issued by the National Board of Boiler and Pressure Nace of Dade County and employed by Arkuright Mutual Insurance Company components described in this Owners Report during the period 09/04/3 e best of my knowledge and belief, the Owner has performed examinationed in this Owners Report in accordance with the requirements of the Assistant the Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. Further loyer shall be liable in any manner for any personal injury or propering from or connected with this inspection.	of tooms and SME Coo
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inspectors and the state or Provin Norwood, Ma. have inspected the co 09/20/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate nei implied, concerning the examination neither the Inspector nor his empl damage or a loss of any kind arisi	valid commission issued by the National Board of Boiler and Pressure Nace of Dade County and employed by Arkwright Mutual Insurance Company omponents described in this Owners Report during the period 09/04/5 e best of my knowledge and belief, the Owner has performed examinated in this Owners Report in accordance with the requirements of the Assister the Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. Further loyer shall be liable in any manner for any personal injury or propering from or connected with this inspection.  Commissions  NB 8230 (N)(1)  National Board, State, Providence, and End	of toons and sixe Coons
inspectors and the state or Provin Norwood, Ma. have inspected the co 09/20/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate nei implied, concerning the examination either the Inspector nor his empl damage or a loss of any kind arisi	valid commission issued by the National Board of Boiler and Pressure Nace of Dade County and employed by Arkwright Mutual Insurance Company omponents described in this Owners Report during the period 09/04/5 e best of my knowledge and belief, the Owner has performed examinated in this Owners Report in accordance with the requirements of the Assister the Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. Further loyer shall be liable in any manner for any personal injury or propering from or connected with this inspection.  Commissions  NB 8230 (N)(1)  National Board, State, Providence, and End	of toons and sixe Coons
inspectors and the state or Provin Norwood, Ma. have inspected the co 09/20/95 and state that to the taken corrective measures describe Section XI.  By signing this certificate nei implied, concerning the examination either the inspector nor his empl damage or a loss of any kind arisi	valid commission issued by the National Board of Boiler and Pressure Nace of Dade County and employed by Arkwright Mutual Insurance Company omponents described in this Owners Report during the period 09/04/5 e best of my knowledge and belief, the Owner has performed examinated in this Owners Report in accordance with the requirements of the Assister the Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. Further loyer shall be liable in any manner for any personal injury or propering from or connected with this inspection.  Commissions  NB 8230 (N)(1)  National Board, State, Providence, and End	of toons and sixe Coons

1.	OwnerFlorida	Power & Light Name		_	Date	09/26/99	<u> </u>	
	700 Universe B	lvd. Juno Beach Fl	. 33408	<del></del>	Sheet1	of_	22	•
2.	PlantTurkey_I	Address		_	Unit			
		Name reet, Florida City	F1 . 33034	_	PWO #:6261/63 WC PCH #: 94-124	94027	270 CR #:	94-118
	7700 01 344 00	Address	, , , , , , , , , , , , , , , , , , , ,	_	Repair Organiza	ation P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & L Name	ight	_	Type Code Symbol S Authorization No.		N/A	
	P.O. Box 4332, Pr	inceton, Fl. 33032 Address		_	Expiration Date	_	N/A	<del></del>
4.	Identification of S	ystem:C	vcs		System #:47	Quality	Group: B	
5.	(a) Applicable Cons	truction Code	83	31.1	19 <u>55_</u> Editio	on, <u>NA</u> A	ddenda, <u>N/A</u> C	ode Cas
6.	(b) Applicable Edit Identification of C				Replacements 19 <u>89</u> Edition	on, <u>N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
	Name of Component	Name of Manufacturer	  Manufacturer   Serial No.	National Board	Other Identification	Year  Built	Repaired Replaced or Replacement	
PING 4 SS		  N/A 	  h/a 	H/A	  R95-0697 ASHE SA-312  SA-376	UNK.	Replacement	Yes/No No
BOWS SS		H/A 	N/A 	H/A	R95-1170 ASHE SA-182	UNK.	Replacement   	No I
			,	·   	<u> </u>	_	 	
		!	<u> </u>	<u> </u>			!	<u>                                     </u>
	Description of Work	PIPING AND TWO	FIROUS REPLAC	FD DUF TO S	UPPORT RUBBING ON PIPE.		<u> </u>	<del></del>
••	- The state of the							_
				<del></del>	·			<del></del>
				<del> </del>	<u> </u>	<u></u>		
8.	Tests Conducted:	Hydrostatic: X	Pneuma	tic:	Nominal Operatin	g Pressure	·	
		Other <u>VT-2</u>	Pressu	re <u> 168</u>	psig Test Temperature		<u>0                                    </u>	

Remarks: ALL WELDING PERFORMED IN ACCOR	DANCE WITH APPROVED PLANT P	ROCEDURES.	
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		<del></del>	<del></del>
		: : :	
	CERTIFICATE OF COMPLIA	INCE	1 1 1
We certify that the statements made in	the report are correct and	ithis replacement conforms to	the rules of the
ASME Code, Section XI.		1 1	
		!!!	
		e e i	
Type Code Symbol Stamp	N/A		<del></del>
Certificate of Authorization No	N/A	Expiration Date	N/A
1/2-1/1-2	1. Arton Technical He	E Sent 2	7
Signed Which of The		www. 17 Date Jeff	19_7_
Owner or Oxiner's Designed	e, Title 🗸 💮 📗 📗		
			<del></del>
	CERTIFICATE OF INSERVICE	INSPECTION	
• • • • • • • • • • • • • • • • • • • •		- Marianal Based of Bailes on	L Descours Vessel
I, the undersigned, holding a va			
inspectors and the state or Provinc			
Norwood, Ma: have inspected the com		elief, the Owner has performed	
09/20/95 and state that to the taken corrective measures described			
Section XI.	in this owners keport in a	ccordance with the requirement	.S of the Ashe Code
			record on
By signing this certificate neit	ner the inspector nor his e	mptoyer makes any warranty, ex	pressed or
implied, concerning the examination	s and corrective measures d	escribed in this Owner's kepor	t. Furthermore,
· neither the inspector nor his emplo			or property
damage or a loss of any kind arisin	g from or connected with th	is inspection.	
	p i		
Much Charle		Factory Mutual Eng. Assoc.	
Lymul !! ex mi		NB 8230 (N)(I)	
Inspectors Signature	. I No	itional Board, State, Providence	ce, and Endorsemen
101			
Date Sept - 28 19 95	-		
Date 19 /3	• • • • • • • • • • • • • • • • • • • •		
V			

1. Owner Florid	a Power & Light		_	Date	09/21/95	<b>.</b>	
700 Universe	Blvd. Juno Beach Fl Address	. 33408	_	Sheet1	of_	2	
2. Plant Turkey	Point Plant Name		_	Unit			
9700 SW 344 S	treet, Florida City Address	, Fl. 33034	-	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. Work Performed by_	Florida Power & L Name	ight	<del></del>	Type Code Symbol St Authorization No Expiration Date		N/A	
	rinceton, Fl. 33032 Address		<b>-</b> ·				
5. (a) Applicable Con	struction Code		31.1	System #:46 19 <u>55_</u> Edition	, <u>NA</u> A	ddenda, <u>N/A</u> C	ode Case
(b) Applicable Edi  6. Identification of				Replacements 19 <u>89</u> Edition ment Components	1, <u>N/A</u> A	ddenda, <u>N/A</u> C	ode Case
Name of Component	Name of , Manufacturer	Manufacturer   Serial No.	National Board	Other   Identification	Year  Built	Replaced or	ASME Code Stamp Yes/No
(1)	  N/A 	H/A	N/A	R94-1958 VLV 3-368	UNK.	Replacement	No
JT (1) EAVY HEX	H/A	N/A	H/A	R91-2327 VLV 3-368  ASME SA-194	UNK.	Replacement	No 
						 	   , 
			<u> </u>			! 1	<u> </u>
	rk: BOLTING WAS VT			AK FOUND DURING ASME SECT.	. XI PRES	SURE	
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8. Tests Conducted:	Hydrostatic:	<del></del>	atic: ure				
				- · · · · · · · · · · · · · · · · · · ·			

	FORM NIS-2 (Ba	ck)	1 1	
. Remarks: MECHANICAL CONNECTION, NO WELDING REQU	IRED.		1 1	· · · · · · · · · · · · · · · · · · ·
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CEF	TIFICATE OF COMP	LIANCE	: :	
We certify that the statements made in the rep ASME Code, Section XI.	ort are correct	and this repepae	ment conforms to	the rules of the
,	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		: :	
Type Code Symbol Stamp	N/A	<u> </u>		
Certificate of Authorization No. N/	A .	Expir	ation Date	N/A
A.A	and the second second	Mine a Comme	1.0	1

### CERTIFICATE OF INSERVICE INSPECTION

Owner or Owner's Designee, Title

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/19/95 to 09/21/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Factory Mutual Eng. Assoc.

NB 8230 (N)(I)

National Board, State, Providence, and Endorsements

1. Owner Flo	rida Power & Light		<b>-</b>	Date	09/22/95	;	
700 Univer	Name se Bl∨d. Juno:Beach Fl	. 33408	_	Sheet1	of_	2	
2. PlantTur	Address		_	JUnit	3		
	Name		•	PWO #:0072/63 WO #	: 950114	660	
9700 SW 34	4 Street, Florida City Address	<u>/, Fl. 33034</u>		Repair Organizati	on P.O.	No.,Job No.,e	tc
3. Work Performed	by Florida Power & L Name	ight	-	Type Code Symbol Sta Authorization No		N/A	
P.O. Box 4332	2, Princeton, Fl. 33032 Address	2		Expiration Date	-		
4. Identification	of System:	REACTOR COOLAN	Τ	System #:41	Quality	Group: A	
5. (a) Applicable	Construction Code	8.	31.1	19 <u>55_</u> Edition,	NA A	ddenda, <u>N/A</u> C	ode Cas
	Edition of Section XI of Components Repaired			Replacements 19 <u>89</u> Edition,	<u> </u>	ddenda <u>, N/A</u> C	ode Cas
Name of Component	Name of Hanufacturer	Manufacturer   Serial No.	National   Board	Other   Identification	Year  Built	Repaired Replaced or Replacement	•
DLT (1) 1 3E210A	HOVA	N/A	N/A	R93-2977 COLD LEG MANWAY BOLTS (1)	UNK.	Replacement	Yes/No No
		<u> </u>	ļ. 		_		
				·		]. [	<u> </u>
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					-		
7. Description of	Work: PERFORMED VT-1	INSPECTION ON	THIRTY TW	O BOLTS. BOLT #4 ON THE CO	LD LEG R	EJECTED.	
BOLT WAS REPLA	ACED WITH SUBSEQUENT VI	-1 PERFORMED.	ALL WORK P	ERFORMED ON 3E210A			
(STEAM GENERAL	TOR A).						
							<del></del>
<del></del>				· ·			<del></del>
8. Tests Conducto	ed: Hydrostatic:	Pneum	atic:	Nominal Operating	Pressure	eX	
	Other VT-1	Press	ure	_psig Test Temperature_		•F	

	FORM NIS-2 (Back)	1
Remarks: MECHANICAL CONNECTION, NO WELDING REQUIR		
Heliai ko. Hedinaroke connection, no weeding keeding	2555	
		<u> </u>
CERTI	IFICATE OF COMPLIANCE	
the contifu that the statements made in the reper	ort are correct and this replacement conforms to the rules of the	
ASME Code, Section XI.	re are correct and this reptacement conforms to the rates of the	
•		
Type Code Symbol Stamp	N/A ~	, 1
Certificate of Authorization No. N/A	Expiration Date N/A	
Owner or Owner's Designee, Title	his Technical Mangin Date Sept 24 1995	. 1
Aliazi		
(100)		
√ CERTIFICA	CATE OF INSERVICE INSPECTION	
	ssion issued by the National Board of Boiler and Pressure Vessel	
	County and employed by Arkwright Nutual Insurance Company of escribed in this Owners Report during the period 07/19/95 to	. l
09/22/95 and state that to the best of my	y knowledge and belief, the Owner has performed examinations and	
taken corrective measures described in this O Section XI.	Owners Report in accordance with the requirements of the ASME Coo	e,
	nspector nor his employer makes any warranty, expressed or	
implied, concerning the examinations and corr	rective measures described in this Owner's Report. Furthermore,	
neither the inspector nor his employer shall damage or a loss of any kind arising from or	be tiable in any manner for any personal injury or property	
Camage of a toss of any kind arising from or	connected with this inspection.	
1.110.		
Buil & Stor F	Factory Mutual Eng. Assoc.  Commissions NB 8230 (N)(I)	
Inspectors Signature	National Board, State, Providence, and Endorsemen	
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		nts
Date SINT 23 19 95		nts

1. Owner	Florida Power & Light Name			Date0	9/22/95	<u> </u>	
700 U	niverse Blvd. Juno Beach Fl Address	. 33408	_	Sheet 1	of_		
2. Plant	Turkey Point Plant Name		<del>-</del>	Unit			
9700	SW 344 Street, Florida City Address	, Fl. 33034	_	Repair Organizatio	n P.O.	No.,Job No.,e	tc
3. Work Perfo	rmed by <u>Florida Power &amp; L</u> Name	ight		Type Code Symbol Stam " Authorization No Expiration Date		N/A	<del></del>
P.O. Box	4332, Princeton, Fl. 33032 Address	2	·				
	tion of System:						
5. (a) Applic	able Construction Code	B3	31.1	19 <u>55_</u> Edition,_	NA A	ddenda, <u>N/A</u> C	ode Cas
	able Edition of Section XI				N/A_A	ddenda, <u>N/A</u> C	ode Cas
Name of Component	Name of Hanufacturer	Manufacturer   Serial No.	National Board	Other   Identification	Year  Built	Repaired Replaced or Replacement	ASHE   Code  Stamp  Yes/No
BOLTS (4) ON 3E210B	HOVA	N/A	H/A	R93-2977 (2) COLD LEG &	UNK.	Replacement	No
]. 		5	[·   		 	  - 	<u> </u>
İ		1		-   	<del> </del>	<u> </u>	
7. Description	on of Work: PERFORMED VT-1	INSPECTION ON	THIRTY TWO	BOLTS BOLTS #8 AND #9 ON	THE_CO	LD LEG	
AND BOLTS	#2 AND #16 ON THE HOT LEG	WERE REJECTED.	PERFORMED	VT-1 AND ACCEPTED			_
FOUR NEW E	BOLTS. ALL WORK PERFORMED O	N 3E210B (STEA	M_GENERATOR	B).	-		
·							<u> </u>
				• •			
8. Tests Con	ducted: Hydrostatic:	Pneuma	ntic:	Nominal Operating P	ressure	<u> </u>	
	Other <u>VT-1</u>	Pressu	ıre	_psig Test Temperature		•F	

	FORM NIS-2	(Back)		
Remarks: MECHANICAL CONNECTION, NO WE	LDING REQUIRED.			
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	CERTIFICATE OF	COMPLIANCE		
No contify that the attraction and	:- ab	and and all the second		
We certify that the statements made ASME Code, Section XI.	in the report are corr	ect and this replacemen	t conforms to the	rules of the
	· · · · · · · · · · · · · · · · · · ·		i i i	
Type Code Symbol Stamp_	· · · · · · · · · · · · · · · · · · ·	W/A	1 1	
Type code symbol state		N/A		
Certificate of Authorization No	N/A	Expirati	on Date	N/A
Signed Muiltan	and Alberte	his Philingsoate	C+24	19 55
Owner or Owner's Design	ice, Title		26/21	19.7
LT)	, !	•	1 1 1	
	· i			•
	CERTIFICATE OF INSE	RVICE INSPECTION		1 1 1 1
I, the undersigned, holding a vinspectors and the state or Provin Norwood, Ma. have inspected the constant of the taken corrective measures described Section XI.	nce of Dade County and exponents described in the best of my knowledge	employed by Arkwright H this Owners Report duri and belief, the Owner	utual Insurance Co ng the period ( has performed example)	ompany of 07/19/95 to minations and
By signing this certificate nei	ther the Inspector nor	his omniover makes now	/ Usernety over	noid out
implied, concerning the examination	ons and corrective meas	ures described in this	Owner's Report. F	urthermore.
neither the Inspector nor his empt	loyer shall be liable i	n any manner for any pe	rsonal injury or	property
damage or a loss of any kind arisi	ing from or connected w	ith this inspection.		
Bunish Klind		Factory Mutual	Eng. Assoc.	
Inspector's Signature	Commissio		to Decridence -	
		National Board, Șta	te, Providence, al	na Endorsements
para Sent 23 age				
19/3				
	, t	•	1 1 1	

1.	OwnerFlorida	Power & Light			Date	09/22/95		
		Name ·						
	700 Universe B	Blvd. Juno Beach F Address	33408	<del>_</del>	Sheet 1	of_	S	<del></del>
2	Olone Tunkou	Doint Diant			Unit	3		
۷.	PlantTurkey	Name	· · · · · · · · · · · · · · · · · · ·	_	PNO #:0134/63 NO #			
	9700 SW 344 St	treet, Florida Cit Address	y; Fl. 33034	_	Repair Organizati	ion P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Florida Power &	Light	_	Type Code Symbol Sta	qm	N/A	
	<i>′</i> -	Name		_	Authorization No.		N/A	
	0.0.0	#1 7707:	_		Expiration Date		N/A	<del></del>
	P.O. Box 4332, Pr	Address	<u> </u>	_				
4.	Identification of S	System:	REACTOR COOLAN	r system_	System #: <u>41</u>	_Quality	Group: A	
5.	(a) Applicable Cons	struction Code	R!	31.1	19 <u>55</u> Edition	. NA Ac	idenda: N/A C	ode Case
•	(a) Applicate con							
	(b) Applicable Edit	tion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition	, <u>N/A</u> Ac	denda, <u>N/A</u> C	ode Case
,	Idombilioopion of A	Camananta Damaina	d D1d	and Canlaga	ment Comenants			
٥,	Identification of (	components kepaire	a or keptaced	and keptace	ment corponents			
	Name of	Name of	Hanufacturer	National	Other	Year	Repaired	ASME
	Component	Hanufacturer	Serial No.	Board	Identification	Built	Replaced or	Code
		!	ļ	! .		ļ.	Replacement	Stamp
LTS		HOVA	H/A	N/A	R94-1953 (10), R94-0170	UNK.	Replacement	Yes/No No
_3E2	100		<u> </u>	<del> </del>	(9), R93-2977 (9)			<del> </del>
	•		<u> </u>	İ	<u> </u>			<u>i                                     </u>
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		<u> </u>	<del>- </del>	<u> </u>		<del> </del> -	<u>)                                    </u>	<del> </del>
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7	Decemination of Hea	L. DEDENDUED VI.1	INCOECTION ON	TOCUTY, C16	GHT NEW BOLTS. PERFORMED V	T-1 AUD !	UT	
٠.	Description of work	K: PERFORMED VI-	INSPECTION ON	IMENII EIG	IN NEW BOLIS: PERFORMED V	1-1 AND 1		
	INSPECTION ON FOUR	EXISTING BOLTS. A	LL WORK PERFOR	HED ON 3E21	IOC (STEAM GENERATOR C).			
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							<del>-,</del>	
8.	Tests Conducted:	Hydrostatic:	Pneuma	itic:	Nominal Operating	Pressure	<u>x</u>	
		Other VT-1	Pressu	ıre	_psig Test Temperature		*F	

Remarks: MECHANICAL CONNECTION, NO WELDING	REQUIRED.		<del></del>	
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	CERTIFICATE OF C	ONPLIANCE	, , , , , ,	1 1 1
			1 1 1	
We certify that the statements made in the	he report are corre	ct and this replaceme	nt conforms to the rule	s of the
SME Code, Section XI.				
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Time Onde Ormbel Oberes			1 1 1	
Type Code Symbol Stamp	N	!/A		
Certificate of Authorization No.	N/A	Expirat	ion Date N/A	
1112				
Signed Wind of the Park	Horn Kennes	Polanage Date	Stot 24	_ <u>[77_</u> 91_
Owner or Owner's Designee,	Title	i izi i i		
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,c	ERTIFICATE OF INSER	RVICE INSPECTION		1 1 1 1 1 1
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I, the undersigned, holding a valid				
inspectors and the state or Province o				
Norwood, Ma. have inspected the compon				
09/22/95 and state that to the bes				
taken corrective measures described in Section XI.	this Owners Report	t in accordance with	the requirements of the	ASME Code,
By signing this certificate meither	the Inspector por	his employer makes a	ny varranty expressed o	r ! !
implied, concerning the examinations a	•	• •		
neither the Inspector nor his employer				
damage or a loss of any kind arising f	~			•
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Sums Kall		Factory Mutua		
January January	Commission			<del></del>
Inspectors Signature		National Board, S	tate, Providence, and Er	xdorsements
	,			
Date SUP 23 1995	· · · · · · · · · · · · · · · · · · ·			
17.2		•		
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1.	Owner Florida	s Power & Light Name		_	Date	09/22/95	5	
	700 Universe E	Blvd. Juno Beach Fl Address	. 33408	_	Sheet 1	of_	2	
2.	PlantTurkey	Point Plant Name		_	Unit	3 #: 950114		
	9700 SW 344 S1	treet, Florida City Address	/, Fl. 33034	<del></del>	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & L Name	ight	_	Type Code Symbol Sta Authorization No Expiration:Date		N/A	
	P.O. Box 4332, Pi	rinceton, Fl. 33032 Address	<u> </u>	_				
					System #:41 19 <u>55_</u> Edition			ode Cas
6.	(b) Applicable Edit			-	Replacements 19 <u>89</u> Edition	, <u>n/a</u> Ad	ddenda, <u>N/A</u> C	ode Cas
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National Board	Other   Identification	Year  Built	Repaired Replaced or Replacement	ASME Code Stamp
BOLTS ON HAN	(1) DHOLE D	WESTINGHOUSE	N/A	H/A	R88-2988 3E210A	UNK.	  Replacement	<u>Yes/No</u>  No
BOLTS	(8) TION PORT	WESTINGHOUSE	N/A   	H/A   	R94-94-0415 3E210A 	UNK.	Replacement	No   
 			( )					
7.	Description of Worl	•	ECTION PORT BO	LTS REPLACE	D & ONE BOLT #2 ON HANDHO	LE "D" R	EPLACED	<u>-</u>
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	h	, , , , , , , , , , , , , , , , , , ,						<del></del>
8.	Tests Conducted:	Hydrostatic:	Pneuma	tic:	Nominal Operating	Pressure	<u> </u>	
		Other	Pressu	ıre	psig Test Temperature_		*F	

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Remarks: MECHANICAL CONNECTION, NO WELL	THE PEOULDED				
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404				<del></del>	
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	CERTIFICATE	OF COMPLIANCE			
lo compilu shop she speciments well to					
We certify that the statements made in SME Code, Section XI.	n the report are c	correct and thi	s replacement c	ontorms to	the rules of the
one code, section XI.					
				i i i	
Type Code Symbol Stamp		N/A			
Type dode Symbol Stamp			<del></del>	+	<del></del>
Certificate of Authorization No.	N/A		Expiration	nien i	N/A
derefficace of addition reaction no.	N/A		expiracion	Date	N/A
Signed Marit Train	1. 1/bz	Talvied M.	2 10000 Z	124	105
Owner or Owner's Designer	a Title	7-40-27	Dusce Of		19.75
owner or owner a persone	e, little		•		
<u> 2                                   </u>				<u> </u>	
				1 11 1	
	-	• 1			*
	CERTIFICATE OF	INSERVICE INSPE	ECTION		
I, the undersigned, holding a va	tid commission is	sued by the Nat	tional Board of	Boiler and	Pressure Vessel
inspectors and the state or Provinc	e of Dade County	and employed by	/ Arkwright Mutu	al Insuranc	e Company of
Norwood, Ma. have inspected the com	conents described	in this Owners	s Report during	the period	07/19/95 to
09/22/95 and state that to the	best of my knowl	edge and belief	f. the Owner has	performed	examinations and
taken corrective measures described	in this Owners R	eport in accord	dance with the r	equirements	of the ASME Code.
Section XI.			,	1 1	(a. a.i.a.i.a.i.a.i.a.
By signing this certificate neit	her the Inspector	nor his employ	ver makes anv wa	rranty, exp	pressed or
implied, concerning the examination					
neither the Inspector nor his emplo					
damage or a loss of any kind arisin	g from or connect	ed with this is	nemention:		or property
amegra of a too of any kind an ion	S II OII OI COURTECT	CG, WICH CHIES II	ispect to it.		
				1 1 1	
have it is the second		Fn	ctory Mutual Eng	. Acene	
MUULS KL			8230 (N)(I)	,. A3300.	
Inspectors' Signature				Providence	e, and Endorsements
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V 0	_				
00to Sept 23 10 75				1 1 1	
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1. 0	Owner <u>Florida</u>	Power & Light		-	Date	09/22/95	5	
-	700 Universe B	lvd. Juno Beach Fl Address	. 33408	ı	Sheet1	of_	<b>S</b> .	<del></del>
2. 1	PlantTurkey	Point Plant Name	<del>,,,, -,, -,-,-,-,-</del>	_	Unit PWO #:0132 W	3 0 #: 950119	203	<del>_</del>
-	9700 SW 344 St	reet, Florida City Address	, Fl. 33034	_	Repair Organiza	ation P.O.	No.,Job No.,e	tc
3. 1	Work Performed by	Name		_	Type Code Symbol S Authorization No. Expiration Date _		N/A	
•	P.O. Box 4332, Pr	inceton, Fl. 33032 Address		<b>-</b>				
					System #: <u>41</u> 19 <u>55</u> _Editio			
	(b) Applicable Edit	•		k	Replacements 19 <u>89 Edition</u>	on, <u>N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
	Name of Component	Name of Hanufacturer	Manufacturer   Serial No.	National Board	Other Identification	Year  Built	Repaired Replaced or Replacement	•
LTS ISPECT	(8) ION PORT	WESTINGHOUSE	N/A	H/A	UTC000375410 3E210C	UNK.	Replacement	Yes/No No
-A	······································		-	<u> </u>			1	<u> </u>
	Description of Work	C: FIGHT (8) INSPI	ECTION PORT BO	LTS REPLACE	D ON 3E210C (STEAM GENE	RATOR C).		<u> </u>
		<u> </u>						_
	•			•		·		
								<del></del>
8.	Tests Conducted:	Hydrostatic:	Pneuma	ntic:	Nominal Operatin	ng Pressure	eX	<del></del>
		Other	Pressu	ıre	psig Test Temperature	<u></u>	*F	

Remarks: <u>MECHANICAL CONNECTION, NO WELDING</u>	G REQUIRED.
	<del></del>
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	CERTIFICATE OF COMPLIANCE
	outilitate of own armor
We certify that the statements made in th	the report are correct and this replacement conforms to the rules of the
SME Code, Section XI.	
Your gods combat comes	· · · · · · · · · · · · · · · · · · ·
Type Code Symbol Stamp	N/A
Certificate of Authorization No.	N/A Expiration Date N/A
012	
Signed Warrel of theme!	At hu, Telhical history Date Sept 24 1995
Owner or Owner's Designee, 1	
<b>a</b>	
·	<del></del>
Cf	CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid	d commission issued by the National Board of Boiler and Pressure Vessel
	of Dade County and employed by Arkwright Mutual Insurance Company of
	nents described in this Owners Report during the period 07/21/95 to
	st of my knowledge and belief, the Owner has performed examinations and
	n this Owners Report in accordance with the requirements of the ASME Cod
Section XI.	- Alle Francisco han little and acceptable delegation of the college of the colle
	r the Inspector nor his employer makes any warranty, expressed or and corrective measures described in this Owner's Report. Furthermore,
The state of the s	r shall be liable in any manner for any personal injury or property
	from or connected with this inspection.
Kuniak Kl	Factory Mutual Eng. Assoc.
falle ); Han	Commissions NB 8230 (N)(1)
Inspectors Signature	National Board, State, Providence, and Endorsemen
- Kon f 22 :: C5	
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1. (	Owner Florida	Power & Light Name		<del></del>	Date	10/02/9	5	<del></del>
•	700 Universe B	lvd. Juno Beach Fl Address	33408	_	Sheet 1	of	2	
2. 1	Plant <u>Turkey</u>	Point Plant Name		_	Unit PWO #:63/2658		782 CR #:	95-74
•	9700 SW 344 St	reet, Florida City	/, Fl. 33034	<del></del>	Repair Organ	nization P.O.	No.,Job No.,e	etc
3. 1	Work Performed by	Florida Power & t	ight	<del>_</del>	Type Code Symbo Authorization N	lo.	N/A	
•	P.O. Box 4332, Pr	inceton, Fl. 33032 Address	2	_	Expiration Date	•	N/A	
					System #: <u>'46</u>			
1		ion of Section XI	Utilized for	Repairs or	19 <u>55</u> Edi Replacements 19 <u>89</u> Edi ment Components	-		
	Name of Component	Name of   Manufacturer	Hanufacturer   Serial No.	National   Board	Other   Identificatio	Year on Built	Replaced or	ASME Code Stamp
2" PIPE SS SCH		N/A	N/A	N/A	R95-0882 SCH 10 SA-182 SA-312	UNK.	Replacement	Yes/No No
3/4" SO	CKOLET	]h/A	N/A	N/A	UTC 377492 SA-182	UNK.	Replacement	Мо
SS ELBO	us (2)	H/A	N/A	N/A	R95-0530 SA-182	JUNK.	Replacement.	No
<del>'</del>		<u> </u>		<u> </u>	<u> </u> 		<u> </u> 	-
	Descriptiön of Work VALVES 3-3490 AND 3	•	G AND FITTINGS	DUE TO THE	U WALL LEAK ON BORIC	ACID SYSTEM	NEAR	<del></del>
8.	Tests Conducted:	Hydrostatic: X	Pneuma	tic:	Nominal Operat	ting Pressure		
		Other <u>VT-2</u>	Pressu	re <u>188</u>	psig Test Temperatu	ure <u>9</u>	<u>•</u> •F	

	•	
F	ORM NIS-2 (Back)	
marks: ALL WELDING PERFORMED IN ACCORDANCE WITH	A0000000 01 ANT D000000000	
MATERIA ALL WELDING PERFORMED IN ACCORDANCE WITH	APPROVED PLANT PROCEDURES.	
		1 1
<del></del>		
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		1 !
CERTIF	ICATE OF COMPLIANCE	
		1 1 1 1 1 j
certify that the statements made in the report	are correct and this replacement	conforms to the rules of the
E Code, Section XI.		
ype Code Symbol Stamp		<del></del>
antificate of furbalishing to		
ertificate of Authorization No. N/A	Expiration	n Date N/A
gned Nanto the A. Achin,	Technical. Alhae, Ly Date	Detro 2 19 5
Owner or Owner's Designee, Title		
,		
CERTIFICAT	E OF INSERVICE INSPECTION	
1, the undersigned, holding a valid commissi		
inspectors and the state or Province of Dade Co	unty and employed by Arkwright Mu	tual Insurance Company of
Norwood, Ha. have inspected the components desc 09/25/95 and state that to the best of my		
taken corrective measures described in this Own		
Section XI.		
By signing this certificate neither the Insp		
implied, concerning the examinations and correct	· · · · ·	
damage or a loss of any kind arising from or co	nected with this inspection	sonal injury or property
,	intered with this hispaction.	
MIIIO & Klan		
june 1	Commissions NB 8230 (N)(1)	<del></del> ;
Inspectors Signature	National Board, Stat	e, Providence, and Endorsements
the till a second		
restellable I 19 45		
		1 1 1

1. Owner Florida	Power & Light			Date	09/26/95	5	
700 Universe B	lvd. Juno Beach F Address	1. 33408	<del></del>	Sheet1	of_	2	<del></del>
2. PlantTurkey	Point Plant Name	<u>.                                    </u>	_	Unit	3		
9700 SW 344 St	reet, 'Florida Cit Address	y, Fl. 33034	_	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. Work Performed by	Name	37401	<del></del>	Type Code Symbol St Authorization No Expiration Date		N/A	
				System #:41			
• •	ion of Section XI	Utilized for	Repairs or	19 <u>74</u> Edition Replacements 19 <u>89</u> Edition ment Components			
Name of Component	Name of Hanufacturer	Manufacturer   Serial No.	National Board	Other   Identification	Year  Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
G "C"	WESTINGHOUSE	FSGT 3003	N/A	N/A	1980	Repaired	Yes
G "A"	WESTINGHOUSE ELECTRIC CORP.	FSGT 3001	N/A	IN/A	1980	Repaired	Yes
	  -	- I	   		   	^   	
		<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>
S/G-"C" HOT LEG RO	4 41 COLUMN 30 - S	S/G "A" HOTLEG	ROW 5 COLUN	SE PLUGS FROM THE FOLLOWIN			
8. Tests Conducted:	Hydrostatic:	Pneuma	atic:	Nominal Operating	Pressure	·	

CERTIFICATE OF COMPLIAN We certify that the statements made in the report are correct and ASME Code, Section XI.		an of the
We certify that the statements made in the report are correct and		an of the
We certify that the statements made in the report are correct and		an of the
We certify that the statements made in the report are correct and		as of the
de certify that the statements made in the report are correct and		so of the
We certify that the statements made in the report are correct and		no lof the
	this repair conforms to the rule	so of the
		so or file
Type Code Symbol StampN/A		
Certificate of Authorization No. N/A	Expiration Date N/A	
	end Date 9-26-	10 9
Owner or Owner's Designee, Title	ead bate	!>
CERTIFICATE OF INSERVICE IN	NSPECTION	
I, the undersigned, holding a valid commission issued by the inspectors and the state or Province of Dade County and employed Norwood, Ha. have inspected the components described in this Own 09/25/95 and state that to the best of my knowledge and beltaken corrective measures described in this Owners Report in acception XI.  By signing this certificate neither the Inspector nor his emplied, concerning the examinations and corrective measures described in the Inspector nor his employer shall be liable in any manage or a loss of any kind arising from or connected with this	d by Arkuright Mutual Insurance Companers Report during the period 09/1 lief, the Owner has performed examination cordance with the requirements of the ployer makes any warranty, expressed scribed in this Owner's Report. Furthwanner for any personal injury or properties.	nny of   18/95 to ations and ASME Cod or nermore,
	Factory Mutual Eng. Assoc. NB 8230 (N)(I)	
	ional Board, State, Providence, and I	Endorsemen
Date Sept 26 1995		
		•

Address  2. Plant Turkey Point Plant Unit 0  PMO #:0184/69 W0 #: 95019076 CR #: 9700 SW 344 Street, Florida City, Fl. 33034  Address Repair Organization P.O. No., Job No., etc  3. Work Performed by Florida Power & Light Type Code Symbol Stamp N/A  Name Authorization No. N/A  P.O. Box 4332, Princeton, Fl. 33032  Address  4. Identification of System: BORIC ACID TRANSFER System #: 46 Quality Group: B  5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Codd  (b) Applicable Edition of Section XX; Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Codd  6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired / Replaced or Component Hanufacturer Serial No. Board Identification Built Replaced or Replacement Sign Sch 10  12" PIPE N/A N/A N/A N/A R95-0637 ASHE SA-312 UNK. Replacement N/A Sign Sign Sign Sign Sign Sign Sign Sign	1. 0	OwnerFlorid			<del>,</del>	Date	09/26/9	<u> </u>	
2. Plant Turkey Point Plant  Name  PNO #:0184/69 NO #: 95019076 CR #: 9700 SM 344 Street, Florida City, Fl. 33034  Address  Repair Organization P.O. No., Job No., etc  3. Work Performed by Florida Power & Light Name Authorization No. P.O. Box 4332, Princeton, Fl. 33032  Address  4. Identification of System: BORIC ACID TRANSFER System #: 46 Quality Group: 8  5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Codd (b) Applicable Edition of Section XK-Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Codd 6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired Replacement Serial No. Board Identification Built Replaced or Replacement Components  Name of Name of Hanufacturer National Other Year Repaired Replacement Serial No. Board Identification Built Replaced Replacement Serial No. Board Serial No. Board Identification Built Replacement Name Serial No. No. Serial No. Se			Name						
Address  2. Plant Turkey Point Plant Name PNO #:0184/69 NO #: 95019076 CR #: 9700 SN 344 Street, Florida City, Fl. 33034 Address  3. Work Performed by Florida Power & Light Name P.O. Box 4332, Princeton, Fl. 33032 Address  4. Identification of System: BORIC ACID TRANSFER System #: 46 Quality Group: B 5. (a) Applicable Construction Code B 31.1 1955 Edition, NA Addenda, N/A Codd (b) Applicable Edition of Section XK_Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Codd 6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Name of Hanufacturer National Other Year Repaired Replacement System Name of Name o		700 Universe l	Blvd. Juno Beach F	1. 33408		Sheet1	of	22	
Name  PMD #:0184/69 WD #: 95019076 CR #: 9700 SU 344 Street, Florida City, Fl. 33034  Address  Repair Organization P.O. No., Job No., etc  3. Work Performed by Florida Power & Light  Name  P.O. Box 4332, Princeton, Fl. 33032  Address  4. Identification of System:  BORIC ACIO TRANSFER  System #: 46 Quality Group:  8  5. (a) Applicable Construction Code  B31.1  1955_Edition, NA Addenda, N/A Code  (b) Applicable Edition of Section XX: Utilized for Repairs or Replacements 1989_Edition, N/A Addenda, N/A Code  6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired Component Hanufacturer Serial No. Board Identification Bultt Replaced or Replacement Serial No. Board Identification Bultt Replaced or Replacement No. Replacement No. Sch. 10  12" PIPE  N/A N/A N/A R95-0428 ASHE SA-312 UNK. Replacement No. Sch. 10  12" PIPE  N/A N/A N/A R95-0437 ASHE SA-182 UNK. Replacement No. Sch. 10  14" N/A N/A R95-0459 ASHE SA-182 UNK. Replacement No. Sch. 10  15" GR 304F  LEGOV N/A N/A N/A R95-0459 ASHE SA-182 UNK. Replacement No. Sch. 10  16" GR 304F  175-4104-30- N/A R95-0459 ASHE SA-351 1976 Replacement No. Sch. 10  17" GR CFB VLV VLV 332	-						-		
Name  PMD #:0184/69 WD #: 95019076 CR #: 9700 SW 344 Street, Florida City, Fl. 33034  Address  Repair Organization P.O. No., Job No., etc  3. Work Performed by Florida Power & Light Name Authorization No. N/A  P.O. Box 4332, Princeton, Fl. 33032  Address  4. Identification of System: BORIC ACIO TRANSFER System #: 46 Quality Group: 8  5. (a) Applicable Construction Code B31.1 1955 Edition, N/A Addenda, N/A Code (b) Applicable Edition of Section XX: Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code 6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired Parameter Serial No. Board Identification Bultt Replaced or Replacement Some Serial No. Sound Serial No. Sound Serial No. Sound Serial No. Replacement No. Replacement No. Replacement No. Sound Serial No. Sound No. Sound No. Replacement No. Sound No. Sound No. No. No. No., Job No., etc  PIPE N/A N/A N/A R95-0428 ASHE SA-312 UNIX. Replacement No. Sound No. Sound No. No. No., Job No., etc  PIPE N/A N/A N/A R95-0428 ASHE SA-182 UNIX. Replacement No. Sound No. Sound No. No. No., Job No., etc  PIPE N/A N/A N/A R95-0437 ASHE SA-182 UNIX. Replacement No. Sound No. Sound No. No. No., Job No., etc  PIPE N/A N/A N/A N/A R95-0459 ASHE SA-182 UNIX. Replacement No. Sound No. Sound No. No. No., Job No., etc  PIPE N/A N/A N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound No. Sound N/A N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound No. Sound No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Sound N/A R95-0459 ASHE SA-351 1976 Replacement No. Soun		NI Turkov	Point Plant			Unit	0	1	
Address Repair Organization P.O. No., Job No., etc  3. Work Performed by Florida Power & Light Type Code Symbol Stamp N/A Name Authorization No. N/A P.O. Box 4332, Princeton, Fl. 33032 Address  4. Identification of System: BORIC ACIO TRANSFER System #: 46 Quality Group: 8  5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code (b) Applicable Edition of Section XX. Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code 6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired Component Manufacturer Serial No. Board Identification Built Replaced or Component Manufacturer Serial No. Board Identification Built Replacement National Social No. Sch. 10  2" PIPE N/A N/A N/A N/A R95-0488 ASNE SA-312 UNK. Replacement National Social No. Sch. 10  TEE N/A N/A N/A R95-037 ASNE SA-182 UNK. Replacement National CR 304F N/A N/A N/A R95-0489 ASNE SA-182 UNK. Replacement National CR 304F N/A N/A N/A R95-0457 ASNE SA-182 UNK. Replacement National CR 304F N/A N/A N/A R95-0459 ASNE SA-182 UNK. Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-351 1976 Replacement National CR 304F N/A R95-0459 ASNE SA-35	2. 1	rtantturkey		**********	_				95-05
Address Repair Organization P.O. No., Job No., etc  3. Work Performed by Florida Power & Light Type Code Symbol Stamp N/A Name Authorization No. N/A P.O. Box 4332, Princeton, Fl. 33032 Address  4. Identification of System: BORIC ACIO TRANSFER System #: 46 Quality Group: 8  5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code (b) Applicable Edition of Section XX. Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code 6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired Component Hanufacturer Serial No. Board Identification Built Replaced or Replacement System School Sc									
3. Work Performed by Florida Power & Light Name Authorization No. N/A P.O. Box 4332, Princeton, Fl. 33032 Address 4. Identification of System: BORIC ACID TRANSFER System #: 46 Quality Group: 8 5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Code (b) Applicable Edition of Section XX. Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code 6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired Component Hanufacturer Serial No. Board Identification Built Replaced or Replacement IS Serial No. Board Identification Built Replaced or Year National N/A September Serial No. Board IS Serial No. Board IS Serial No.		9700 SW 344 S		y, Fl. 33034	_	Renair Organ	vization P O	No. Joh No. 4	
Name    Authorization No.   N/A			YOUI 633			Kepati Organ	1120C1011 F.O.	40.,300 NO.,6	,,,
Address  4. Identification of System: BORIC ACID TRANSFER System #: 46 Quality Group: 8  5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Codd  (b) Applicable Edition of Section XX. Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Codd  6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired / Replaced or Replaced and Identification Built Replaced or Replacement ISI  2" PIPE N/A N/A N/A N/A R95-0488 ASNE SA-312 UNK. Replacement INI 304 SS S S S S S S S S S S S S S S S S S	3. 1	Work Performed by_	Florida Power &	Light	<del></del>	Type Code Symbo	ol Stamp	N/A	
Address  4. Identification of System: BORIC ACID TRANSFER System #: 46 Quality Group: 8  5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Codd (b) Applicable Edition of Section XX; Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Codd 6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired / Replaced or Component Hanufacturer Serial No. Board Identification Built Replaced or Component Serial No. Board Identification Built Replaced or Component No. Serial			Name						
Address  4. Identification of System: BORIC ACID TRANSFER System #: 46 Quality Group: 8  5. (a) Applicable Construction Code B31.1 1955 Edition, NA Addenda, N/A Codd.  (b) Applicable Edition of Section XX. Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Codd.  6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired or Replaced or Component Hanufacturer Serial No. Board Identification Built Replaced or Component No. Replacement St. YY.  2" PIPE N/A N/A N/A R95-0488 ASME SA-312 UNK. Replacement No. 304 SS SCH 10		P.O. Rox 4332, Pi	rinceton, Fl. 3303	2	•	expiration bate		N/A	<del></del>
5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code  (b) Applicable Edition of Section XX Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code  6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired / Replaced or Component Hanufacturer Serial No. Board Identification Built Replaced or Component N/A N/A N/A R95-0488 ASME SA-312 UNK. Replacement State No. Sch 10 N/A N/A N/A R95-0488 ASME SA-312 UNK. Replacement N/A SS SS SS SS SS SS SS SS SS SS SS SS SS	•	7.0. 00. 400.							
5. (a) Applicable Construction Code 831.1 1955 Edition, NA Addenda, N/A Code  (b) Applicable Edition of Section XX Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code  6. Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Year Repaired / Replaced or Component Hanufacturer Serial No. Board Identification Built Replaced or Component N/A N/A N/A R95-0488 ASME SA-312 UNK. Replacement State No. Sch 10 N/A N/A N/A R95-0488 ASME SA-312 UNK. Replacement N/A SS SS SS SS SS SS SS SS SS SS SS SS SS								_	
(b) Applicable Edition of Section XX Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code  6. Identification of Components Repaired or Replaced and Replacement Components    Name of	4.	Identification of	System:	BORIC ACID TRA	NSFER	System #:46	Quality	, Gronb: 8	
(b) Applicable Edition of Section XX Utilized for Repairs or Replacements 1989 Edition, N/A Addenda, N/A Code  6. Identification of Components Repaired or Replaced and Replacement Components    Name of	5.	(a) Applicable Cons	struction Code	8	31.1	1955 Edi	tion, NA A	.ddenda,_N/A (	ode Cas
Name of Name of Manufacturer National Other Year Repaired or Replaced and Replacement Components    Name of Component Manufacturer Serial No. Board Identification Built Replaced or Component Manufacturer Serial No. Board Identification Built Replaced or Component Manufacturer Serial No. Board Identification Built Replaced or Component St. Script Scri									•
Name of Component Manufacturer Serial No. Board Identification Built Replaced or Component Manufacturer Serial No. Board Identification Built Replaced or Component Manufacturer Serial No. Board Identification Built Replaced or Component Manufacturer Serial No. MyA R95-0488 ASHE SA-312 UNK. Replacement No. Sch 10  TEE N/A N/A N/A R95-0637 ASHE SA-182 UNK. Replacement No. GR 304 F  ELBOW N/A N/A N/A R95-1170 ASHE SA-182 UNK. Replacement No. GR 304 F  DIAPHRAM VALVE ITT GRINNELL 75-4104-30- N/A R95-0459 ASHE SA-351 1976 Replacement Yellow Sch Volv VLV 332	(	(b) Applicable Edit	tion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edi	tion, <u>N/A</u> A	ddenda, N/A C	ode Cas
Name of Component Manufacturer Serial No. Board Identification Built Replaced or Component Manufacturer Serial No. Board Identification Built Replaced or Component Manufacturer Serial No. Board Identification Built Replaced or Component Manufacturer Serial No. MyA R95-0488 ASHE SA-312 UNK. Replacement No. Sch 10  TEE N/A N/A N/A R95-0637 ASHE SA-182 UNK. Replacement No. GR 304 F  ELBOW N/A N/A N/A R95-1170 ASHE SA-182 UNK. Replacement No. GR 304 F  DIAPHRAM VALVE ITT GRINNELL 75-4104-30- N/A R95-0459 ASHE SA-351 1976 Replacement Yellow Sch Volv VLV 332	6.	Identification of (	Components Repaire	d or Replaced	and Replace	ment Components			
Component   Manufacturer   Serial No.   Board   Identification   Built   Replaced or   Component   Replacement   State   Sta			-		1			<del></del>	1
Replacement   St   Ye   Ye   Ye   Ye   Ye   Ye   Ye   Y	İ	Name of		•	!	•	•		ASME
2" PIPE	ļ	Component	Manufacturer	] Serial No.	Board	Identification	on Built		Code
2" PIPE	 		}	1	1	1	i i	Replacement	Stamp  Yes/No
TEE	24 PIPE		N/A	N/A	N/A	R95-0488 ASHE SA-312	UHK.	Replacement	No
304 SS			. <u> </u>	<u> </u>	<u> </u>	···	i	<u>i                                      </u>	<u>i                                     </u>
ELBOW	•		А/К	A/K]	N/A		עאג.	Replacement	МО
304 SS	!	<u> </u>	IN/A	IN/A	IN/A	<del></del>	) link	Penlacement	IVO
2"   12   GR CF8 VLV VLV 332	•		1	177	[	•	.		I
		M VALVE	ITT GRINNELL	75-4104-30-	N/A		1976	Replacement	Yes
7. Description of Work: PIPING, VALVE, TEE AND ELBOW REPLACED DUE TO PREVIOUS HYDRO FAILURE.	2"		<del> </del>	112	<u> </u>	GR CF8 VLV VLV 332		<u> </u>	<u> </u>
7. Description of Work: PIPING, VALVE, TEE AND ELBOW REPLACED DUE TO PREVIOUS HYDRO FAILURE.	[ !			ļ		,	1	]	ļ
7. Description of Work: PIPING, VALVE, TEE AND ELBOW REPLACED DUE TO PREVIOUS HYDRO FAILURE.	·	<del></del>	!	<u></u>	<u>!</u>		<del></del>	<del></del>	<del></del>
	7. 0	Description of Worl	k: PIPING. VALVE.	TEE AND ELBOW	REPLACED D	UF TO PREVIOUS HYDRO	FATILIRE.		
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		•							
	•	<del></del> -	1	<del></del>	<del></del>				
	•								
	•		<del></del>	·		<del></del>			—
8. Tests Conducted: Hydrostatic: X Pneumatic: Nominal Operating Pressure	8.	Tests Conducted:	Hydrostatic: X	Pneuma	tic:	Nominal Oceas	ing Pressure	•	
,							ing ricoout		
Other VT-2 Pressure 188 psig Test Temperature 91 *F	•		Other VT-2	Pressu	re <u>188</u>	psig Test Temperatu	re <u>9</u>	<u>1</u> •F	

# FORM HIS-2 (Back) 9. Remarks: ALL WELDING PERFORMED IN ACCORDANCE WITH APPROVED PLANT PROCEDURES. CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASHE Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Signed Signed Signed Min Technical Min a Date Syst 2.7 19 33 CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 07/14/95 to 09/26/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage on a loss of any kind arising from or connected with this inspection.

Factory Mutual Eng. Assoc.

NB 8230 (N)(I)

Inspectors Signature

National Board, State, Providence, and Endorsements

Date Sept 30 19 95

1. Owner Florid				Date	09/27/9	5	<u>.</u>
	Name						
700 Universe	Blvd. Juno Beach Fl	1. 33408		Sheet <u>1</u>	of_	2	
	Address						
2. PlantTurkey	Point Plant			Unit	3		
	Name			WO #: 95025427			
9700 SW 344 S	treet, Florida City Address	y, Fl. 33034		Repair Organizat	ion P.O.	No.,Job No.,e	tc
<ol><li>Work Performed by_</li></ol>		Light	_	Type Code Symbol St			
	Name			Authorization No Expiration Date		N/A	
P.O. Box 4332, P	Princeton, Fl. 3303	2	<b>→</b>				
T.	Address						
4. Identification of	System:	AUX STEAM TO A	FW SYSTEM	System #:84	_Quality	Group: C	
5 (a) Anolicable Con	etruction Code	R	31.1	19 <u>55_</u> Edition	. NA A	ddenda. N/A C	ode Cas
5. (a) Applicable Con	istruction code		31.1	17 <u>35 c</u> arcion	· <u>····</u> ^	<u> </u>	ouc cas
(b) Applicable Edi	ition of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition	, <u>N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
6. Identification of	Components Repaire	d or Replaced	and Replace	ement Components			
Name of	Name of	Manufacturer	   National	Other	Year	Repaired	ASME
Component	Manufacturer	Serial No.	Board	Identification,	Built	Replaced or	Code
	İ	į	ļ		!	Replacement	-
	_	_   N/A	  N/A	R89-3493 SNUBBER TAG	_	Replacement	Yes/No
PSA-3 LOAD PIN	PACIFIC  SCIENTIFIC			3-1003	John.		
CAP SCREWS (4)	N/A	N/A	N/A	R92-0504 SNUBBER TAG	טאג.	Replacement	No
FOR TTA		<u> </u>		13-1003		1	<del> </del>
	l I	1	1		1	1	1
	<u> </u>		<u> </u>		i.		1
<u> </u>		1	<u> </u>	<u> </u>			<del> </del>
	,	1			-		<u> </u>
7. Description of Wo	rk: TRANSITION TUB	E TO SNUBBER B	OLTS AND SI	NUBBER LOAD PIN REPLACED (	N PSA-3	SNUBBER	
				1			
TAG NUMBER 3-1003	. TRANSITION TUBE T	O SHUBBER BOLT	S REPLACED	DUE TO INADEQUATE THREAD	ENGAGEME	NT PER	<del></del>
CR95-826.			•	_			
			*				
<del></del>				*			
					-		
8. Tests Conducted:	Hydrostatic:	Pneuma	atic:	Nominal Operating	Pressure	e	
	Other <u>VT-3</u>	Pressu	ure <u>.                                    </u>	_psig			

FORM	NIS	-2	(Back	.)
		1		

emarks: MECHANICAL CONNECTION, NO W	FELDING REQUIRED.
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	<u>.                                    </u>
	CERTIFICATE OF COMPLIANCE
	CERTIFICATE OF CONFESIONAL
	e in the report are correct and this replacement conforms to the rules of the
SME Code, Section XI.	
Type Code Symbol Stamp	N/A
	N/A Expiration Date N/A
. 🖊	
Signed Al Sant-	Action Tedenced Midness Date Sopt 27 1995
Owner or Owner's Desig	gnee, Title
	CERTIFICATE OF INSERVICE INSPECTION
	CERTIFICATE OF INSERVICE INSPECTION
	valid commission issued by the National Board of Boiler and Pressure Vessel
inspectors and the state or Prov	valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of
inspectors and the state or Prov Norwood, Ma. have inspected the	valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 t
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 t the best of my knowledge and belief, the Owner has performed examinations an
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the taken corrective measures describ	valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 t
inspectors and the state or Prov Norwood, Ma. have inspected the of 09/27/95 and state that to the taken corrective measures describes Section XI.	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and bed in this Owners Report in accordance with the requirements of the ASME Co
inspectors and the state or Prov Norwood, Ma. have inspected the of 09/27/95 and state that to the taken corrective measures describ Section XI. By signing this certificate n	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and bed in this Owners Report in accordance with the requirements of the ASME Compether the Inspector nor his employer makes any warranty, expressed or
inspectors and the state or Prov Norwood, Ma. have inspected the of 09/27/95 and state that to the taken corrective measures describ Section XI. By signing this certificate n implied, concerning the examinat	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and ibed in this Owners Report in accordance with the requirements of the ASME Competition of the ASME Competition of the Inspector nor his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. Furthermore,
inspectors and the state or Prov Norwood, Ma. have inspected the of 09/27/95 and state that to the taken corrective measures describ Section XI.  By signing this certificate no implied, concerning the examinat neither the Inspector nor his em	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and bed in this Owners Report in accordance with the requirements of the ASME Compether the Inspector nor his employer makes any warranty, expressed or
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the taken corrective measures describ Section XI.  By signing this certificate n implied, concerning the examinat neither the Inspector nor his em	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and ibed in this Owners Report in accordance with the requirements of the ASME Competence of the ASME Competence of the Inspector for his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. Furthermore, apployer shall be liable in any manner for any personal injury or property
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the taken corrective measures describ Section XI.  By signing this certificate n implied, concerning the examinat neither the Inspector nor his em	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and ibed in this Owners Report in accordance with the requirements of the ASME Competence of the ASME Competence of the Inspector for his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. Furthermore, apployer shall be liable in any manner for any personal injury or property
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the taken corrective measures described Section XI.  By signing this certificate normalized, concerning the examinatine of the Inspector nor his emplanage or a loss of any kind ari	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 to the best of my knowledge and belief, the Owner has performed examinations and ibed in this Owners Report in accordance with the requirements of the ASME Compether the Inspector nor his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. Furthermore, imployer shall be liable in any manner for any personal injury or property ising from or connected with this inspection.
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the taken corrective measures described Section XI.  By signing this certificate normalized, concerning the examinatine of the Inspector nor his emplanage or a loss of any kind ari	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and ibed in this Owners Report in accordance with the requirements of the ASME Commeither the Inspector nor his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. Furthermore, imployer shall be liable in any manner for any personal injury or property ising from or connected with this inspection.  Factory Mutual Eng. Assoc.  NB 8230 (N)(I)
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the taken corrective measures described Section XI.  By signing this certificate normalized, concerning the examinatine of the Inspector nor his emplanage or a loss of any kind ari	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and ibed in this Owners Report in accordance with the requirements of the ASME Competitions and corrective measures described in this Owner's Report. Furthermore, imployer shall be liable in any manner for any personal injury or property ising from or connected with this inspection.  Factory Mutual Eng. Assoc.
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the taken corrective measures described Section XI.  By signing this certificate normalized, concerning the examinat neither the Inspector nor his emplanded or a loss of any kind ari	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and ibed in this Owners Report in accordance with the requirements of the ASME Commeither the Inspector nor his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. Furthermore, imployer shall be liable in any manner for any personal injury or property ising from or connected with this inspection.  Factory Mutual Eng. Assoc.  NB 8230 (N)(I)
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the taken corrective measures described Section XI.  By signing this certificate normalized, concerning the examinat neither the Inspector nor his emplanded or a loss of any kind ari	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 the best of my knowledge and belief, the Owner has performed examinations and ibed in this Owners Report in accordance with the requirements of the ASME Commeither the Inspector nor his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. Furthermore, imployer shall be liable in any manner for any personal injury or property ising from or connected with this inspection.  Factory Mutual Eng. Assoc.  NB 8230 (N)(I)
inspectors and the state or Prov Norwood, Ma. have inspected the 09/27/95 and state that to the taken corrective measures described Section XI.  By signing this certificate normalized, concerning the examinat neither the Inspector nor his emplanded or a loss of any kind ari	a valid commission issued by the National Board of Boiler and Pressure Vessel vince of Dade County and employed by Arkwright Mutual Insurance Company of components described in this Owners Report during the period 09/16/95 to the best of my knowledge and belief, the Owner has performed examinations and ibed in this Owners Report in accordance with the requirements of the ASME Compether the Inspector nor his employer makes any warranty, expressed or tions and corrective measures described in this Owner's Report. Furthermore, imployer shall be liable in any manner for any personal injury or property ising from or connected with this inspection.  Factory Mutual Eng. Assoc.  NB 8230 (N)(I)  National Board, State, Providence, and Endorsement

1.	OwnerFlorida	Power & Light		_	Date0	9/29/95	5	<del></del>
	700 Universe B	lvd. Juno Beach F Address	1. 33408	_	Sheet1	of <u>'</u>	2	
2.	Plant Turkey i			_	Unit	95003°		
	9700 SW 344 St	reet, Florida Cit Address	y, Fl. 33034	_	Repair Organizatio	n P.O.	No.,Job No.,e	tc
3.	Work Performed.by	Florida Power &   Name	Light		Type Code Symbol Stam Authorization No Expiration:Date		N/A	
	P.O. Box 4332, Pr	inceton, Fl. 3303 Address	2					-
					System #:300 19 <u>55</u> Edition,_			
		ion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition,_			
	Name of Component	Name of Manufacturer	Manufacturer Serial No.		l e e e e e e e e e e e e e e e e e e e	Year , Built	Replaced or	ASME Code Stamp Yes/No
ELIEF 1/2"	VALVE	DRESSER INDUSTRIES	TH18074	N/A	RV-3-1425, A-479 TYPE 316	UNK.	Replaced	Yes
	VALVE	DRESSER INDUSTRIES	TH18075 	N/A	RV-3-1425, A-479 TYPE 316  MODEL 1-1/2-1970-2	UNK.	Replacement	Yes
	· · · · · · · · · · · · · · · · · · ·			<u> </u>			<u> </u>	
				İ				
7.	Description of Work	: REPLACED RELIE	F VALVE RV-3-1	425 WITH TE	STED SPARE.			<del></del>
					,			<u> </u>
		·						
8.	Tests Conducted:	Hydrostatic:	Pneuma	ntic:	Nominal Operating P	ressure	·	
		OtherVI-2	Pressu	ure <u>70</u>	_psig Test Temperature	8	*F	

#### FORM NIS-2 (Back)

emarks: MECHANICAL CONNECTION, NO WELD	ING REQUIRED.		<del></del>	
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	CERTIFICATE OF COMP	PLIANCE		,
e certify that the statements made in	n the report are correct	and this replacement	conforms, to the rules of	th
ME Code, Section X1.				
Type Code Symbol Stamp	N/A			
Certificate of Authorization No	N/A	Expiration	n Date N/A	
1/2	1. A.l. Tel.	/ Mary Date	10-1-45	9
Owner or Owner's Designer	<u> </u>	Ming Date	19	
<u> </u>				
			! ! i	
	CERTIFICATE OF INSERVIO	CE INSPECTION		1
I, the undersigned, holding a va				
inspectors and the state or Provinc				1
Norwood, Ma. have inspected the com				t
			as performed examinations	
taken corrective measures described	in this Owners Report i	n accordance with the	e requirements of the ASME	Co
Section XI.	: !			
By signing this certificate neit				
implied, concerning the examination				e,
neither the Inspector nor his emplo			sonat injury or property	
damage or a loss of any kind arisin	g from or connected with	this inspection.		
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		England Multural E	ala dagah	
18111110 19 Deach	Commissions	Factory Mutual E	ing. Assoc.	
Inspectors Signature	Commissions		te, Providence, and Endors	eme
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/ // a = = =				
Date SLAY 29 19 95			1 1	
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/	· 1		1 1 1	

1. OwnerFlorid	da Power & Light Name		_	Date	09/29/99	5	<del></del>
700 Universe	Blvd. Juno Beach Fl Address	. 33408	_	Sheet 1	of_	2	
2. PlantTurkey	y Point Plant Name	· · · · · · · · · · · · · · · · · · ·	_	Unit			—
9700 SW 344 S	Street, Florida City Address	/, Fl. 33034		Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. Work Performed by	Florida Power & I Name	ight	_	Type Code Symbol St Authorization No Expiration Date		N/A_	
	Princeton, Fl. 3303 Address		_				
				System #: <u>46</u>			
(b) Applicable Ed  6. Identification of				Replacements 19 <u>89</u> Edition	<u>, N/A</u> A	ddenda, <u>N/A</u> C	ode Case
Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National Board	Other Identification	Year  Built		ASME Code Stamp Yes/No
UD (4)	N/A	N/A	N/A	FT-3-110 R94-2456	N/A	Replacement	Ho I
AVY NUTS (8)	N/A	N/A	h/A 	RT-3-110 R95-0123	N/A	Replacement	No
		İ			_ i		
						<u> </u>	<u> </u>
7. Description of Wo	ork: FLANGE BOLTING	BEING REPLACE	D DUE TO BO	ORIC ACID RESIDUE.			
							<u> </u>
8. Tests Conducted:	Hydrostatic:	( Pneum	atic:	Nominal Operating	Pressure	·	
	OtherVT-1/2	Pressi	ure <u>188</u>	_psig Test Temperature_		93•F	

	FURH H15-2 (BBCK)
Remarks: MECHANICAL CONNECTION NO WELL	DING NEEDED.
	<del></del>
	CERTIFICATE OF COMPLIANCE
We certify that the statements made ASME Code, Section XI.	in the report are correct and this replacement conforms to the rules of the
Type Code Symbol Stamp	N/A
Type bode Symbol Stand	
Certificate of Authorization No	N/A Expiration Date N/A
1/2 Al -3 1	Achy Terminal Maires a Date October 1 1955
Signed What or Owner's Design	
<u>B</u>	
-	
	CERTIFICATE OF INSERVICE INSPECTION
inspectors and the state or Proving Norwood, Ma. have inspected the conservation of the conservation of the conservation of the conservation of the conservation of the conservation of the examination of the conservation of the examination of the conservation of the	ralid commission issued by the National Board of Boiler and Pressure Vessel oce of Dade County and employed by Arkwright Mutual Insurance Company of emponents described in this Owners Report during the period 09/21/95 to best of my knowledge and belief, the Owner has performed examinations and in this Owners Report in accordance with the requirements of the ASME Code ther the Inspector nor his employer makes any warranty, expressed or one and corrective measures described in this Owner's Report. Furthermore, over shall be liable in any manner for any personal injury or propertying from or connected with this inspection.
Inspectors Signature	Commissions   NB 8230 (N)(I)   National Board, State, Providence, and Endorsement
Date Orthor 1 1999	

1.	OwnerFlorid	in Power & Light Name			Date(	9/30/9	5	
	_ 700 Universe	Blvd. Juno Beach F	l. 33408		Sheet1	<b>~</b> 6		
		Address						
2.	PlantTurkey	Point Plant	<del></del>		Unit	3	<b>;</b>	
		Name			WO #: 95026339			
	9700 SW 344 S	treet, Florida Cit	y, Fl. 33034					
		Address			Repair Organizatio	n P.O.	No.,Job No.,e	:tc
3.	Work Performed by_	Florida Power &	Light		Type Code Symbol Stam Authorization No.	φ	N/A N/A	
				н	Expiration Date		N/A	
	P.O. Box 4332, P	rinceton, Ft. 3303 Address	2	_				
4.	Identification of	System:	MAINSTEAM		System #:720	uality	Group: B	
		•			19 <u>55</u> Edition,		· ·	
	(b) Applicable Edi	tion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition,	<u>N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
6.	Identification of	Components Repaired	d or Replaced	and Replace	ement Components			
	Name of	Name of	Manufacturer	National	Other	Year	Repaired	ASHE
	Component	Manufacturer	Serial Ho.	Board	Identification	•	Replaced or	Code
		1	4	ĺ	1	j	Replacement	•
. 75	771 001 70 141	-	-	<u> </u>	.	İ	İ	Yes/No
N-3>	TTA BOLTS (6)	H/A	H/A	N/A	A 325 BOLTS STK COOE #019	UNK	Replaced	No
		<del>- </del>	<del></del>	<u> -</u>	7413 1 SHUB TAG 3-1084	<del>!</del>	<u> </u>	<del>!</del> !
		` <b>\</b>	1	} }	}	 	ļ ·	
		<u> </u>	1	<u> </u>		<u> </u>	! 	<del></del>
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		_1	<u> </u>	<u> </u>		<u> </u>		<u> </u>
7.	Description of World	k: REPLACED TTA BO	DLTS.					
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8.	Tests Conducted:	Hydrostatic:	Pneuma	tic:	Nominal Operating Pr	essure		
		Other		re		•		
			FI CSSU	' <u></u>	hara rear resibetarate——		•F	

#### FORM NIS-2 (Back)

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emarks: REPLACED BOLTS ON TTA - SNUBBE	₹ 3-1084	
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	CERTIFICATE OF COMPLIANCE	
		! ! ! :
We certify that the statements made in	the report are correct and this replacement	conforms to the rules of the
SME Code, Section XI.		
		1 1
	· · · · · · · · · · · · · · · · · · ·	
Type Code Symbol Stamp	N/A	<del></del>
Certificate of Authorization No.	N/A Expiration	Date H/A
Certificate of Addiolization No.		
Signed Minust	Ach Kehrend Ribertio Date L	10/2/12 /U 19 55
Owner or Owner's Designed	, Titlé	
·		
		<del></del>
	CENTIFICATE OF INCENTICE INCRECTION	: : !
	CERTIFICATE OF INSERVICE INSPECTION	
t the mideral model helding a ve	id commission issued by the National Board of	Roiler and Pressure Vessel
increases and the state or Grovins	of Dade County and employed by Arkwright Mut	ual Insurance Company of
Normood Ma have inspected the com	conents described in this Owners Report during	the period   09/24/95   to
09/29/95 and state that to the	pest of my knowledge and belief, the Owner ha	s performed examinations and
taken corrective measures described	in this Owners Report in accordance with the	requirements of the ASME Coo
Section XI.		: :
By signing this certificate neit	ner the Inspector nor his employer makes any w	marranty, expressed on
implied, concerning the examination	s and corrective measures described in this O	mer's Report. Furthermore,
neither the Inspector nor his emplo	yer shall be liable in any manner for any pers	sonal injury or property
damage or a loss of any kind arisin	g from or connected with this inspection.	
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1 110 1	Pantania Minharat Pa	na iAccae
Bunial Kl	Factory Mutual Er	ng. MSSOC.
manuel). In a	Commissions NB 8230 (N)(1)	e, Providence, and Endorsemen
Inspectors Signature	Mactonat Board, State	e' Linaidelice' aim elmoraguer
DA .	-	
Dat Actoleu 6 19.95		
· · · · · · · · · · · · · · · · · · ·		

1. Owner Flor	ida Power & Light		_	Date	09/29/99	5	
	Name					3	
700 Univers	e Blvd. Juno Beach F Address	1. 33408	_	Sheet1	of_	5	
2. Plant Turk	ev Point Plant			Unit	3		
	Name	•	<del></del>	PWO #:2888/63 WO #		081	
9700 SW 344	Street, Florida Cit	y, Fl. 33034	_				
	Address			Repair Organizati	ion P.O.	No.,Job No.,e	tc
3. Work Performed b	y Florida Power &	Light	<del></del>	Type Code Symbol Sta			
	Name			Authorization No Expiration Date			
P.O. Box 4332,	Princeton, Fl. 3303 Address	2				•	
					A 1.24		
				System #:46			
5. (a) Applicable C	Construction Code	В	31.1	19 <u>55_</u> Edition	<u>, NA</u> A	ddenda, <u>N/A</u> C	ode Cas
(b) Applicable E	dition of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition	<u>, N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
6. Identification o	of Components Repaire	d or Replaced	and Replace	ement Components			
	<u> </u>	<del></del>	1	Υ	lv	1 0	LAGUE
Name of Component	Name of   Manufacturer	Manufacturer   Serial No.	National   Board	Other Identification	Year  Built	Repaired Replaced or	ASME
·	į	į.	į		-	Replacement	Stamp  Yes/No
EAVY HEX NUT (8)	N/A	N/A	N/A	FT-3-113 R93-2473	N/A	Replacement	No
TUDS (4)	N/A	N/A	N/A	FT-3-113 R94-3230	N/A	Replacement	No
		<del>- </del>	<u>                                     </u>			<u> </u>	-
			<u> </u>	-	<u> </u>	<u> </u>	<u> </u>
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		!	!	1		<u>-I</u>	
7. Description of N	Work: FLOW TRANSMIT	TER FLANGE BOLT	TING BEING I	REPLACED DUE TO BORIC ACID	RESIDUE		
			ı				
		<del></del>		*****			
<del></del>						<del></del>	
			<del></del>				
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9 Tooks Conducted	: Hydrostatic:	V Dnaim	atic:	Nominal Operating	Pressure	e	
8. Tests Conducted	: hydrostatic:			<u> </u>			
	Other <u>VT-1/2</u>	Press	ure <u>188</u>	_psig Test Temperature_		93•F	

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F	ORM NIS-2	(Back)			! ! ! !		1 1	1 1	1
Demarka, WEGUANIGA, GANGETTAN NO INIDING METAER		1 1 1	1 0	1 1	1 1	1			
Remarks: MECHANICAL CONNECTION NO WELDING NEEDED.		<del></del>	· · · · · · · · · · · · · · · · · · ·	•	+				
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0507.5					1 1	i !			
CERTIF	ICAIE OF	COMPLIANCE			1 1	1		, ,	,
We certify that the statements made in the report ASME Code, Section XI.	are corr	rect and this	replaceme	nt con	orms	to th	e rule:	s of t	the :
					1 1	1			
Type Code Symbol Stamp	i	N/A	\\						
Contificate of Authorization No. 1864			<b>-</b>			i			
Certificate of Authorization No. N/A			Expirat	ופע חסוי. גע	°		N/A	<del>-</del>	
	Chrisal	Money ~	Date	<i>U</i> \(\alpha\)	260	//		19_5	,
Owner of Owner's Designee, Tille	. !		i i	l I	1 1	1			
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		<del> </del>			<del></del>				
CENTIFICAT	F 05 190	FRUIGE INCREA	7704		1 1				
CERTIFICAL	C UF INSE	ERVICE INSPEC	ITUN		1 1 1 1	1	1 1	iii	i
I, the undersigned, holding a valid commissi									
inspectors and the state or Province of Dade Co	ounty and	employed by	Arkuright	Mutual	Insu	rance			
Norwood, Ma. have inspected the components desc 09/29/95 and state that to the best of my							09/21,		to
taken corrective measures described in this Own									
Section XI.	1	_			1 1	1			•
By signing this certificate neither the Insp	sector no	r his employe	r makes ar	y warr	inty,	expre	ssed o	r	

implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property

Commissions

damage or a loss of any kind arising from or connected with this inspection.

National Board, State, Providence, and Endorsements

1.	Owner Florida	Power & Light Name		-	Date	10/02/99	<u> </u>	
	700 Universe B	lvd. Juno Beach Fl Address	. 33408	_	Sheet1	of_	2	
2.	Plant Turkey (	Point Plant Name		<b>-</b>	Unit PWO #:2886/63 WC	3 0 #: 950260		
	9700 SW 344 St	reet, Florida City Address	, Fl. 33034	_	Repair Organiza	ation P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power &:L Name	ight	_	Type Code Symbol S Authorization No. Expiration Date _		N/A	
	P.O. Box 4332, Pr	inceton, Fl. 33032 Address	<u>,</u>	<b>-</b>				
4.	Identification of S	ystem:B	ORIC ACID TRA	NSFER	System #:46	Quality	Group: B	
5.	(a) Applicable Cons				19 <u>55' E</u> ditio			
6.	(b) Applicable Edit  Identification of C				Replacements 19 <u>89 Edition</u> Tent Components	on <u>, N/A</u> A	ddenda, <u>N/A</u> C	ode Case
	Hame of Component	Name of Manufacturer	Manufacturer   Serial No.	National Board	Other Identification	Year  Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
HEAVY	HEX NUT (12)	H/A	N/A	H/A	  HOV-3-350 R91-1504  ASME SA-194	N/A	Replacement	No
TEKKOE	STUD (6)	CRANE ALOYCO	N/A	N/A	MOV-3-350 R92-0699 ASME SA-193	N/A	Replacement	No
			<u> </u>	1	 	_	l. I	<u> </u>
							<u> </u>	<u> </u>
7.	Description of Work		PLACED DUE TO	LEAK DURING	ASME SECT. XI PRESSURE	TEST. BOL	TING-WAS	<u>.                                    </u>
				•				<u> </u>
8.	. Tests Conducted:	Hydrostatic: X	Pneuma		Hominal Operatin	ng Pressure		
		Other VT-1/2	Pressu	ire <u>188</u>	psig Test Temperature		•F	

	FORM NIS-2 (Back)
Remarks: MECHANICAL CONNECTION NO WELDING NEEDS	
RETREETS: MECHANICAL CONNECTION NO WELDING NEEDS	<del>99                                   </del>
	<del></del>
CÉI	RTIFICATE OF COMPLIANCE
No consider show the character made in the constitution	
ASHE Code, Section XI.	port are correct and this:               conforms to the rules of the
·	
Type Code Symbol Stamp	· · · · · · · · · · · · · · · · · · ·
Certificate of Authorization No. N/	Expiration Date N/A
Signed March Email Ak	thing Technical Minager Date October 2 19 55
Owner or puner's Designee, Title	
CEDTIE	ICATE OF INSERVICE INSPECTION
CERTIF	TICKLE OF INSERVICE INSPECTION
	mission issued by the National Board of Boiler and Pressure Vessel
	de County and employed by Arkwright Mutual Insurance Company of described in this Owners Report during the period 09/21/95 to b
	my knowledge and belief, the Owner has performed examinations and
	s Owners Report in accordance with the requirements of the ASME Gode,
Section XI.  By signing this certificate peither the	Inspector nor his employer makes any warranty, expressed or
	prrective measures described in this Owner's Report. Furthermore,
neither the Inspector nor his employer shall	It be tiable in any manner for any personal injury or property
damage or a loss of any kind arising from o	or connected with this inspection.
Burnia de la la como de la como d	
full ), If in k-	Commissions <u>NB 8230 (N)(I)</u>
Inspectors Signature	National Board, State, Providence, and Endorsements
Color of	
Data Ve 18 AC 19 75	

700 Universe 1							
700 Universe i	Blvd. Juno Beach F Address	t. 33408		Sheet1	of_	2	<del></del>
PlantTurkey	Point Plant Name		<del></del>	Unit	3		
9700 SW 344 St	treet, Florida Cit Address	y, Fl. 33034	_	Repair Organizat	ion P.O.	No.,Job No.,e	tc
	Name		- - ,	Authorization No		N/A	
Identification of S	System:	SAFETY INJECTION	ON	System #:62	_Quality	Group: 8	<del></del>
(b) Applicable Edit	tion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition			
Name of Component	Name of Manufacturer	<del></del>	<del></del>	Other Identification			:
IPPORT	N/A	N/A	N/A	DWG 5613-H-823 SHT 14 MARK 8080-H-007-09	UNK	Repaired	Yes/No  No
		<u> </u>	<u> </u> 	<u> </u> 			 <del> </del>
	:	<u> </u>	<u> </u>				<u> </u>
			<u> </u>   				
No.					UGS_TO P	ROCESS	
						*	
	9700 SW 344 SM Work Performed by P.O. Box 4332, PM Identification of SM (a) Applicable Cons (b) Applicable Edit Identification of Component	9700 SW 344 Street, Florida Cit Address  Work Performed by Florida Power & Name  P.O. Box 4332, Princeton, Fl. 3303 Address  Identification of System:  (a) Applicable Construction Code  (b) Applicable Edition of Section XI  Identification of Components Repaire  Name of Name of Hanufacturer  JPPORT N/A  Description of Work: MODIFY SUPPORT	Name  9700 SW 344 Street, Florida City, Fl. 33034 Address  Work Performed by Florida Power & Light Name  P.O. Box 4332, Princeton, Fl. 33032 Address  Identification of System: SAFETY INJECTI  (a) Applicable Construction Code B  (b) Applicable Edition of Section XI Utilized for Identification of Components Repaired or Replaced  Name of Name of Hanufacturer Serial No.  JPPORT N/A N/A  Description of Work: MODIFY SUPPORT 8080-H-007-09	Name  9700 SW 344 Street, Florida City, Fl. 33034 Address  Work Performed by Florida Power & Light Name  P.O. Box 4332, Princeton, Fl. 33032 Address  Identification of System: SAFETY INJECTION  (a) Applicable Construction Code B31.1  (b) Applicable Edition of Section XI Utilized for Repairs or Identification of Components Repaired or Replaced and Replace  Name of Name of Manufacturer National Component Manufacturer Serial No. Board  DPPORT N/A N/A N/A  Description of Work: MODIFY SUPPORT 8080-H-007-09 (5613-H-82)	Name  9700 SM 344 Street, Florida City, Fl. 33034 Address Repair Organizat  Work Performed by Florida Power & Light Name P.O. Box 4332, Princeton, Fl. 33032 Address  Identification of System: SAFETY INJECTION System #: 62  (a) Applicable Construction Code B31.1  Identification of Section XI Utilized for Repairs or Replacements 1989 Edition Identification of Components Repaired or Replaced and Replacement Components  Name of Name of Hanufacturer National Other Component Hanufacturer Serial No. Board Identification  IPPORT N/A N/A N/A N/A DMG 5613-H-823 SHT 14 HARK 8080-H-007-09  Description of Work: MODIFY SUPPORT 8080-H-007-09 (5613-H-823 SHT 14) REMOVE WELDED LEPIE.	Name   W0 #: 95024592	Name of Name o

#### FORM NIS-2 (Back)

CERTIFICATE OF CONPLIANCE  To cortify that the statements made in the report are correct and this replacement conforms to the rules of the ME Code, Section XI.  Type Code Symbol Stamp  N/A  Certificate of Authorization No.  N/A  Expiration Date  N/A  Certificate of Authorization No.  Signed  Many To Outer's Designee, Atte  Certificate of Noter's Designee, Atte  Certificate of Noter's Designee, Atte  Certificate of Noter's Designee, Atte  Certificate of INSERVICE INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or Province of Dade Country and employed by Arkuright Nutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/09/95 and state that to the best of my knowledge and boiler, the Owner has performed maninations and corrective measures described in this Owners Report during the period 09/09/95 to 09/30/95 and state that to the best of my knowledge and boiler, the Owner has performed maninations and corrective measures described in this Owners Report during the period 09/09/95 to 09/30/95 and state that to the best of my knowledge and boiler, the Owner has performed taken corrective measures described in this Owners Report during the period 09/09/95 to 09/30/95 and state that to the best of my knowledge and boiler, the Owner has performed on taken corrective measures described in this Owner's Report. Furthermore, meither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  Inspectors Signature  Commissions  N/A  Rexpiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date  N/A  Expiration Date				
Type Code Symbol Stamp  N/A  Certificate of Authorization No.  N/A  Signed Authorization No.  N/A  Certificate of Authorization No.  N/A  Certificate of Owner's Designee, Attle  Commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkuright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/09/95 to 09/30/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Cocception XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  NB 8230 (N)(1)	emarks: GROUND OFF WELD. WELDED PIECES OF ANGLE	TO CHANNEL.		<del></del>
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Certificate of Authorization No.  N/A  Signed Authorization No.  N/A  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkuright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/09/95 to 09/30/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Coc Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  NB 8230 (N)(1)	We certify that the statements made in the repo	ort are correct and t	his replacement conforms	to the rules of the
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Owner's Designee, Fitte  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 09/09/95 to 09/30/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Consection XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions NB 8230 (N)(1)	Type Code Symbol Stamp	N/A	<del></del>	· 
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implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Tactory Mutual Eng. Assect   NB 8230 (N)(1)				
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damage or a loss of any kind arising from or connected with this inspection.    Tactory Hutual Eng. Association   NB 8230 (N)(1)	mptred, concerning the examinations and corp	rective measures desc	ribed in this Uwner's kep	ort. Furthermore,
Mull & Blan Commissions NB 8230 (N)(1)				ry or property
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Date Choter 2 1995	Inspectors Signature			<u>;</u>
parte de la bec. 2 1995	nispectors signature		mat board, State, Provide	nce, and Endorsemer
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	Owner <u>Florida</u>	Power & Light	······	-	Date	09/30/99		
		Name						
	700 Universe B	lvd. Juno Beach Fl	. 33408	_	Sheet 1	of_	2	
		Address						
2.	Plant <u>Turkey</u>				Unit	3		
		Name	1		PWO #:7361/63 WO #	#: 950031	188	
	9700 SW 344 St	reet, Florida City	, Fl. 33034	<b>_</b>			***	
		Address		1	Repair Organizati	ion P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & L	ight		Type Code Symbol Sta			
	_	Name			Authorization No			
	P.O. Box 4332. Pr	inceton, Fl. 33032	<u>!</u>	•	Expiration Date		N/A	
		Address						
	Identification of S	tvetom: f	HADGING		System #:47	Quality	Group: B	
5.	(a) Applicable Cons	truction Code	B3	31.1	19 <u>55</u> Edition	<u>, NA</u> A	ddenda, <u>N/A</u> C	ode Ca
	(b) Apolicable Edit	ion of Section XI°	Utilized for I	Repairs or	Replacements 19 <u>89</u> Edition	. N/A A	ddenda. N/A C	ode Ca
	(b) Applicable cult	TOTAL OF SCORE OF AL		incpatito of		۰ نیسنشاند		
6.	Identification of 0	Components Repaired	lor Replaced	and Replace	ment Components			
	Name of	Name of	Manufacturer	National	Other	Year	Repaired	ASME
	Component	Manufacturer	Serial No.	Board	Identification	Built	Replaced or	Code
		!	1	!		ļ	Replacement	Stamp  Yes/N
ISTON	CHECK VALVE	EDWARDS VALVES	570125458	N/A	R 77AHG, VALVE 3-303	UNK	Replacement	No
11		1,1,2	111/4	1	R 95-0333 ASHE SA-182,	LUNK	Replacement	No
LBOW		H/A	N/A	h/A 	F304	IONE		]
IPE		N/A	A/K	N/A	R 95-0882 304 SS	UNK	Replacement	Но
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		1 .	<del></del>		ASHE SA-312	<del></del>	<u> </u>	<del> </del>
		]			ASME SA-312		<u> </u>   	<del> </del>
					ASME SA-312			

	FORM NIS-2 (Back	3)		1 1 1
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	CERTIFICATE OF COMPLI	IANCE		
le certify that the statements made in	the report are correct an	nd this replacement co	nforms to the	rules of the
ME Code, Section XI.	1			
	· !			
Type Code Symbol Stamp	N/A_	<del></del>	+ + +	
Certificate of Authorization No.	N/A	Expiration D	ate N	/A
1/2 4/12 1:	11 -1 00	Venue Date O		
Owner or Owner's besigned		Date U	CHENNI	1997
Owner or Swher sydesigned	), 11tte		: : :	
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	: ;		· · · · · · · · · · · · · · · · · · ·	<del></del>
	CERTIFICATE OF INSERVICE	INSPECTION	: :	
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I, the undersigned, holding a val				
inspectors and the state or Province Norwood, Ma. have inspected the comp				ompany of to
	pest of my knowledge and			
taken corrective measures described	in this Owners Report in	accordance with the re	equirements of	the ASME Code,
Section XI.  By signing this certificate neitle	has the Inspector and bid	amhlaidea maltais aigir iscr		ad an
implied, concerning the examinations	•	• •		
neither the Inspector nor his employ	yer shall be liable in any	manner for any person	nal injury or p	
damage or a loss of any kind arising	; from or connected with t	his inspection.		
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Bu Sul ill		*Factory-Nutual_Eng.	Assoc 7	
Illully Bland	Commissions	NB 8230 (N)(1)		
Inspectors Signature		ational Board, State,	Providence, ar	nd Endorsements
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1.	. Owner Florida Power & Light Name			_	Date	09/30/9	5	
	700 Universe Blvd. Juno Beach Ft. 33408 Address			_ ·	Sheet 1	of_	2	<del></del>
2.	PlantTurkey	Point Plant			Unit	3		
	Name			WO #: 95026659	<del></del> -		95-837	
	9700 SW 344 S	treet, Florida Cit	y. Fl. 33034					
		Address			Repair Organizat	ion P.O.	№.,Јор Мо.,е	tc
3.	Work Performed by_	Florida Power &	Light		Type Code Symbol St	tamp	N/A	
		Name		_	Authorization No.		N/A	
	P.O. Box 4332. P	rinceton, Fl. 3303	2		Expiration Date		N/A	<del></del>
		Address			y.			
4.	Identification of	System:	FEEDWATER		System #:74	_Quality	Group: B	
5.	(a) Apolicable Con	struction Code	8	31.1	19 <u>55_</u> Edition	n. NA A	ddenda. N/A C	ode Case
6.	Identification of				Replacements 19 <u>89</u> Edition	1, <u>N/A</u> A	odenda, <u>N/A</u>	ode Case
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	•	Other Identification	Year  Built	Repaired Replaced or Replacement	
PE S	UPPORT		_   H/A 	  h/A 	3-1080 MARK # PS-1  5613-H-651 SHT. 4		  Replacement	Yes/No
				1		]		
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7.					OVIDE 1/8" CLEARANCE TO SI	NUBBER EN	D CAP ON	
8.	Tests Conducted:	Hydrostatic:	Pneuma	tic:	Nominal Operatingpsig Test Temperature_			

	FORM NIS-2 (Back)	1 1	
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	CERTIFICATE OF COMPLIANCE		
We certify that the statements made in	the report are correct and this	repair conforms to	the rules of the
ASME Code, Section XI.			! i
			!
Type Code Symbol Stamp	N/A		: : 
Certificate of Authorization No	N/A	Expiration Date	.N/A
Certificate of Addition 22 cross soil			/ 5
signed / Must / The A.	of Technical Minneya	_oate_ October	19 34
Owner of Owner's Designer	://ritte		; ;
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	CERTIFICATE OF INSERVICE INSPECT	LION	
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inspectors and the state or Province	of Dade County and employed by A	Arkwright Mutual Insurar	ice Company of
Norwood, Ha. have inspected the com	conents described in this Owners R	Report during the period	1 09/26/95 to
09/30/95 and state that to the l taken corrective measures described	pest of my knowledge and belief, in this Owners Report in accordan	the Owner has performed ace with the requirement	examinations and
Section XI.	· !	1 1	1
By signing this certificate neith implied, concerning the examination:	her the inspector nor his employer	r makes any warranty, ex	pressed or
neither the Inspector nor his emplo			
damage or a loss of any kindrarising	from or connected with this insp	pection.	, ! :
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Junio 16 KV. L		ory Hutual-Eng. Assoc. /	30-
Inspectors Signature		230 (N)(I)	
	National	Board, State, Providence	se, and Endorsements
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1. Ouner	Florida Power & Light			Date	10/01/95	<b>;</b>	
	Name		<del></del>				
700	Universe Blvd. Juno Beach	Fl. 33408		Sheet 1	of_	2	
<del></del>	Address			,			
2 Dinnt	Turkey Point Plant			Unit	3		
Z. Plant	Name		_	WO #: 95018031			
				PCH #: 95-037			
970	O SW 344 Street, Florida Ci	ty, Fl. 33034	<del>_</del>	PS #: 95-018H			<del></del>
	Address			Repair Organi:	zation P.O.	No.,Job No.,e	tc
3 Uark Par	formed by Florida Power &	Light		Type Code Symbol	Stamo	N/A	
5. HOI X 1 C.	Name		_	Authorization No.			
				Expiration Date			
P.O. [	ox 4332, Princeton, Fl. 330	32	_				
	Address			•	wit		
4. Identif	cation of System:	MAINSTEAM		System #:72	Quality	Group: B	
5. (a) App	icable Construction Code		31.1	19 <u>55_</u> Edit	ion, <u>NA</u> A	ddenda, <u>N/A</u> C	ode Cas
(h) Ann	icable Edition of Section X	() Utilized for	Renairs or	Replacements 1989 Edit	ion. N/A A	ddenda.416-1 C	ode Cas
לטי אאי	icable Edition of Section A		поратто от			<u></u>	
6. Identif	cation of Components Repair	red or Replaced	and Replace	ment Components			
Name	f Name of	Hanufacturer	National	Other	Year	Repaired	ASHE
Compon	nt Kanufacturer	Serial No.	Board	Identification	Built	Replaced or	Code
•	İ	į	j .	1	ļ	Replacement	Stamp
		!	<u> </u>			ļ	Yes/No
LV 3-10-107	ROCKWELL  EDWARDS	N/A	N/A	3/4" GLOBE VALVE	ĮUNK. I	Replaced	I No
LV 3-10-207	ROCKWELL	N/A	N/A	3/4" GLOBE VALVE	UNK.	Replaced	Но
	EDWARDS		<u>i                                     </u>		<u>i</u>	<u> </u>	<u>i                                     </u>
LV 3-10-307	ROCKWELL	N/A	N/A	3/4" GLOBE VALVE	UNK.	Replaced	Мо
	EDWARDS		<u>ļ</u>			<del> </del>	<u> </u>
1/4" CAPS (3	) H/A	]N/A	H/A	UTC #377470 ASHE A10	אטן 5.	Replacement	МО
			<del>                                     </del>	<del>                                     </del>		1	<del> </del>
	i	i	1		i	<u> </u>	<u>i</u>
			0				
7. Descrip	tion of Work: THE FOLLOWING	G VALVES WERE RE	MOVED AND	PIPING WAS CAPPED: 3-10	-107, 3-10-	207 AND	
<u>3-10-30</u>	7. PRIOR TO RETURN TO SERVI	CE AN INSERVICE	LEAK TEST	ILL BE PERFORMED PER L	095027443		
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8. Tests (	onducted: Hydrostatic:	Pneum	atic:	Nominal Operat	ing Pressure		

		e e i i e e i i
	FORM NIS-2 (Back)	
Remarks: ALL WELDING PERFORMED IN ACCORDANCE WI	TH APPROVED PLANT PROCEDURES.	
	· · · · · · · · · · · · · · · · · · ·	
- CE	RTIFICATE OF COMPLIANCE	
ASME Code, Section XI.  Type Code Symbol Stamp	N/A	: : i : : i : ! ! ! •
Certificate of Authorization NoN/	AEx	piration DateN/A
signed Shall Frank Ach	Tahied Manier Da	te October 1 1995
Owner/or Owner Designee, Title		
		1 1 1
CERTIF	ICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid comminspectors and the state or Province of Dad Norwood, Ma. have inspected the components 10/01/95 and state that to the best of	e County and employed by Arkwr described in this:Owners Repor	ight Hutual Insurance Company of

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property

Commissions

Factory Mutual Eng. Assoc.

National Board, State, Providence, and Endorsements

NB 8230 (N)(I)

damage or a loss of any kind arising from or connected with this inspection.

Section XI.

1.	1. Owner Florida Power & Light Name			<del></del>	Date1	10/02/9	5	<del></del>
	700 Universe Blvd. Juno Beach Fl. 33408 Address		<b></b>	Sheet1	of_	22	<del></del>	
2.	. Plant Turkey Point Plant Name:			Unit	3 : 95003	068		
	9700 SW 344 St	treet, Florida City Address	y, Fl. 33034	<del>_</del>	Repair Organizatio	on P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Florida Power & I Name	Light	_	Type Code Symbol Star Authorization No Expiration Date		N/A	
	P.O. Box 4332, Pi	rinceton, Fl. 3303 Address	2	<del>-</del>				
			•		System #:300 19 <u>55_</u> Edition,			
6.	(b) Applicable Edit				Replacements 19 <u>89</u> Edition,	N/A_A	ddenda, <u>N/A</u> C	ode Case
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National Board	Other Identification	Year  Built	Replaced or	ASME Code Stamp Yes/No
uos (	(10)	H/A	N/A	N/A	R94-3198, VLV 3-738	UNK.	Replacement	No
TS (	33)	H/A	H/A	H/A	(1)R91-4032,(32)R93-2765 VLV 3-738, ASME SA-194	UNK.	Replacement	No
	<del></del>	], ],	· <u> </u>		<u> </u>	<u> </u>	! <del> </del>	<u> </u>
<del></del>				1		<u> </u>	<u> </u>	<u> </u> 
7.	Description of Wor	k: REPLACED BODY	TO BONNETT BOL	TING.				<del>'</del>
			<del></del>		- A			<del></del>
				•			·	
4					•			_
8.	Tests Conducted:	Hydrostatic:	Pneuma	ntic:	Nominal Operating P	ressure		
		Other	Pressu	ıre	_psig Test Temperature		•F	

	FORM MIS-E (DOCK)	
emarks: MECHANICAL CONNECTION, NO WELD	THE PEOUTOED	1 1
emarks: Mechanical Connection, NO WELD	ING REGULACO.	
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	CERTIFICATE OF COMPLIANCE	
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We certify that the statements made in	n the report are correct and this replacement o	onforms to the rules of the
SHE Code, Section XI.	0.1	the state of
	en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co	
Type Code Symbol Stamp	N/A	· · · · · · · · · · · · · · · · · · ·
Certificate of Authorization No	N/A Expiration	Date N/A
1): 11/1.2	1. 1.1 - 1.11	6 / / }
signed Which by		19 5 -
Owner or Owner's Designe	e, Title 🧖 🕛 📗 📗 🗀 🗇 🗀 🗀 🗀 🗀	
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		<del></del>
	e l	
	CERTIFICATE OF INSERVICE INSPECTION	
	lid commission issued by the National Board of	
	e of Dade County and employed by Arkwright Mut	
	ponents described in this Owners Report during	
10/01/95 and state that to the	best of my knowledge and belief, the Owner ha	s performed examinations and
taken corrective measures described	in this Owners Report in accordance with the	requirements of the ASME Code
Section XI.		
	ther the Inspector nor his employer makes any w	
	ns and corrective measures described in this Ow	
	over shall be liable in any manner for any pers	onat injury or property
damage or a loss of any kind arising	ng from or connected with this inspection.	
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/ / //		! ! ! :
Bunik Kl. L		
June 1) nan	Commissions NB 8230 (N)(I)	<del>i _ j _ j _ + _ , _ , _ , _ , _ , _ , _ , _ , _ ,</del>
Inspectors Signature	National Board, State	, Providence, and Endorsemen
1000		: ! !
1 1/2/1 2 01		r r i
Date Maroun de 1975		
•		
		e e i

I. UNIKI	Florida Power & Light		_	Date	10/02/95	<u> </u>	
	Name						
700 Uni	700 Universe Blvd. Juno Beach Fl. 33408 Address		_	Sheet1	of_	2	<del></del>
2 Plant	Turkey Point Plant			Unit	3		
2. Ptant	Name			PWO #:63/2890 WO	#: 950260		
0700 : 81	344 Street, Florida Ci	El 3303/					
9700 58	Address	rty, Pt. 33034	•	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. Work Perform	ned by Florida Power 8	Light		Type Code Symbol St			
	Name			Authorization No Expiration Date			
P.O. Box 4	332, Princeton, Fl. 330	32		Expiración vace			
	Address		<del></del>				
4. Identificati	ion of System:	cvcs		System #:47	<u>·</u> Quality	Group: B	
5. (a) Applicab	ale Construction Code	В	31.1	19 <u>55_</u> Edition	, NAA	ddenda, <u>N/A</u> C	ode Cas
• •							
	ole Edition of Section )			Replacements 19 <u>89</u> Edition ment Components	, <u>N/A</u> AC	ddenda, <u>N/A</u> C	ode Cas
Name of	Name of	Manufacturer	National	Other	Year	Repaired	ASME
Component	Manufacturer		Board	Identification		Replaced or	Code
	Ì	į ·	·ļ		ļ	Replacement	
TUD (1) /4"-28 UNF-2A	H/A	N/A	N/A	R93-3760, VLV 3-367 ASHE SA-193 GR B7	UNK.	Replacement	Yes/No  No
• •	N/A	N/A	N/A	R93-3760, VLV 3-367 ASHE SA-193 GR 87	UNK.	Replacement	i
• •	N/A	N/A	N/A	•	UNK.	Replacement	i
• •	N/A	N/A	N/A     	•	UNK.	Replacement	i
• •	N/A	N/A	N/A	•	UNK.	Replacement	i
TUD (1) /4"-28 UNF-2A	N/A	N/A	N/A	•	UNK.	Replacement	i
• •	N/A	N/A	N/A	•	UNK.	Replacement	i
• •				•			i
7. Description		KED DURING ASME	SECT. XI P	ASME SA-193 GR B7			i
7. Description	of Work: DIAPHRAM LEA	KED DURING ASME	SECT. XI P	ASME SA-193 GR B7			i
7. Description	of Work: DIAPHRAM LEA E BONNET BOLT WAS BAD.	KED DURING ASME	SECT. XI PI	ASME SA-193 GR B7			i
7. Description	of Work: DIAPHRAM LEA E BONNET BOLT WAS BAD.	KED DURING ASME	SECT. XI PI	ASME SA-193 GR B7			i
7. Description	of Work: DIAPHRAM LEA E BONNET BOLT WAS BAD.	KED DURING ASME	SECT. XI PI	ASME SA-193 GR B7			
7. Description	of Work: DIAPHRAM LEA E BONNET BOLT WAS BAD.	KED DURING ASME	SECT. XI PI	ASME SA-193 GR B7			
7. Description	of Work: DIAPHRAM LEA	KED DURING ASME	SECT. XI PI	ASME SA-193 GR B7	VISUALLY	INSP.	

FO	RM NIS-2 (Back)
Remarks: MECHANICAL CONNECTION, NO WELDING REQUIRED	
······································	
CERTIFI	CATE OF COMPLIANCE
We certify that the statements made in the report	are correct and this replacement conforms to the rules of the
ASHE Code, Section XI.	
Type Code Symbol Stamp	N/A
Certificate of Authorization NoN/A	Expiration Date N/A
	*
Owner or Owner's Designee, Title	christ Manage Date October 2 19 85
owner or owner's designee, lytte	
· · · · · · · · · · · · · · · · · · ·	<u>,                                    </u>
CERTIFICATE	OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission inspectors and the state or Province of Dade Co.	on issued by the National Board of Boiler and Pressure Vessel unty and employed by Arkwright Mutual Insurance Company of
Norwood, Ma. have inspected the components descr	
10/02/95 and state that to the best of my	knowledge and belief, the Owner has performed examinations and
Section XI.	ers Report in accordance with the requirements of the ASME Code,
	ector nor his employer makes any warranty, expressed or
	tive measures described in this Owner's Report. Furthermore, liable in any manner for any personal injury or property
damage or a loss of any kind arising from or cor	
flull & Stant	Commissions NB 8230 (N)(I)
Inspectors Signature	National Board, State, Providence, and Endorsements
(1) [[	
Date Va fober 2 1995	
* <b>*</b>	

1.	OwnerFlorida	Power & Light			Date		10/02/99	5	
	700 Universe B	Nuno Beach Fl Address	. 33408	<u> </u>	· Sheet	1	of_	2	<u></u>
2.	PlantTurkey				Unit		3		
	Name				WO #: 95		<u>~</u>		95-80
. ,	9700 SW 344 St	reet, Florida City Address	, Fl. 33034	_	Repa	ir Organizatio	on P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Florida Power & L	ight	<del>_</del>	Type Co	de Symbol Star	mp		
		nanc			Expirat	zation No ion.Date		N/A N/A	
	P.O. Box 4332, Pr	inceton, Fl.: 33032 Address	<u>.                                    </u>						
4.	Identification of S	System: 7	4/FEEDDWATER	•	System #:_	74	Quality	Group: B	
5.	(a) Applicable Cons	struction Code	В	31.1		19 <u>55_</u> Edition,	NA A	denda, <u>N/A</u> C	ode Cas
	(b) Applicable Edit								
	Identification of C						A.	denda, <u>n/A</u>	ode cas
[	Name of Component	Name of Hanufacturer	Manufacturer   Serial No.			ther ification	Year  Built	Replaced or	ASME Code Stamp Yes/No
TRANSIT	ION TUBE	H/A	H/A	N/A	FOR MSA TAG	#3-1041	UNK.	Repaired	No
!	ION TUBE	IN/A	A/K	N/A	FOR MSA TAG	#3-1042	UNK.	Repaired	No I
1		1		]; 			1		1
					1		!		
!				!	<u> </u>				.!
7.	Description of Worl	C: SNUBBER 3-1042	ADJUSTED TRAN	SITION TUBE	ASSEMBLY TUR	NBUCKLE TO BR	<u>ING "L"</u>		
	DIMENSION WITHIN AC	CCEPTABLE RANGE.			<u> </u>				
			<del> </del>	<del></del>					
	SNUBBER 3-1041 ADJU	ISTED TRANSITION TO	JBE ASSEMBLY T	URNBUCKLE T	O ACHIEVE TUR	NBUCKLE		· · · · · · · · · · · · · · · · · · ·	
	FULL THREAD ENGAGE	KENT.							
8.	Tests Conducted:		-		Nomina	nl Operating P	ressure		
		Other <u>VT-3</u>	Dracel	ire	nsia Test I	emperature		•F	

e.	ORM NIS-2 (Back)
r	ORR RIS-2 (BdCK)
. Remarks: MECHANICAL CONNECTION, NO WELDING REQUIRE	<u>0.                                      </u>
******	
CERTIF	ICATE OF COMPLIANCE
We certify that the statements made in the report ASME Code, Section XI:	are correct and this repair conforms to the rules of the
Type Code Symbol Stamp	N/A
Certificate of Authorization No. N/A	Expiration Date N/A
signed Ward Jak Ach 7	Tedent Manger Date October 10 19 5,-
Owner or Owner's Designee, Title	
CERTIFICAT	TE OF INSERVICE INSPECTION
inspectors and the state or Province of Dade Co Norwood, Ma. have inspected the components desc 10/02/95 and state that to the best of my taken corrective measures described in this Own Section XI.  By signing this certificate neither the Inspiritual concerning the examinations and corrective measures.	ion issued by the National Board of Boiler and Pressure Vessel bunty and employed by Arkwright Mutual Insurance Company of cribed in this Owners Report during the period 09/19/95 to knowledge and belief, the Owner has performed examinations and ners Report in accordance with the requirements of the ASME Code, pector nor his employer makes any warranty, expressed or cive measures described in this Owner's Report. Furthermore, e liable in any manner for any personal injury or property onnected with this inspection.

National Board, State, Providence, and Endorsements

1.	Owner Florida	Power & Light		_	Date	10/03/95	<u> </u>	
	700 Universe 8	lvd. Juno Beach Fl Address	. 33408	<del></del>	Sheet1	of_	2	
2.	Plant Turkey (	Point Plant Name	<del></del>		Unit	3		
	9700 SW 344 St	reet, Florida City Address	, Fl. 33034	<del></del>	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & L Name	ight		Type Code Symbol St Authorization No Expiration Date		N/A	
	P.O. Box 4332, Pr	inceton, Fl. 33037 Address	2	_	<u></u>			
4.	Identification of S	ystem:	VARIOUS .		System #:105	_Quality	Group: B	
5.	(a) Applicable Cons	truction Code	8:	31.1	19 <u>55_</u> Edition	<u>, NA</u> A	ddenda, <u>N/A</u> C	ode Case
6.	(b) Applicable Edit			_	Replacements 19 <u>89</u> Edition	, <u>N/A</u> A	denda, <u>N/A</u> C	ode Case
	Name of Component	Name of Hanufacturer	Manufacturer   Serial No.	National   Board 	Other Identification	Year  Built 	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
	LAMP BOLT, HEX D UNC-ZA	N/A	N/A	N/A	STOCK # 0197843 UTC 378857 R N/A	N/A	Replacement	No
		1	1; 1	! !	<u> </u>		! !	<u> </u>
				!		-	<u> </u> 	!
			j. 1	į	!			
				1				1
7.	Description of Work		(CR 95-829) R	EPLACED PIF	E CLAMP BOLT AT SNUBBER E	ND, ADJU	STED	
		· · · · · · · · · · · · · · · · · · ·						
			<del></del>				******	Adaptaines .
					- •			
8.	Tests Conducted:	Hydrostatic:	Pneuma	tic:	Nominal Operating	Pressure		
		Other VT-3	Pressu	re	_psig Test Temperature		•F	

FORM	NIS-2	(Back)
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	PONH HIS E (BOCK)	and the second s	
Remarks: <u>MECHANICAL CONNECTION, NO WELDING R</u>	DECHIDED		
GIMINS: MECHANICAE CONNECTION, NO WELDING IN	REGOTRED.		
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	· 1		
		<del></del>	
	e d	$(i_1,\ldots,i_{n-1})$	
	1	1 1 1	
	CERTIFICATE OF COMPLIANCE	1 1	
	• 1	1 1	
We certify that the statements made in the	report are correct and the	nis repèpeènent conforms to	the rules of the
SHE Code; Section XI.	1	1 1	
	· i		
Time Code Cimbal Coama	N/A	1 1	
Type Code Symbol Stamp		<del></del>	
Certificate of Authorization No	N/A	Expiration Date	N/A
signed Whatel that , Hely	Webraiced Belonga	Date Octobe 3	19//
Owner or Owner's Designee/Ti	tle		
		1 1	
	**************************************		
		<del></del>	· · · · · · · · · · · · · · · · · · ·
		ncartou : : :	
CER	RTIFICATE OF INSERVICE INS	PECITON	; ; ; ;
I, the undersigned, holding a valid of	commission issued by the N	ational Roard of Roiler and	Pracciira Vaccal
inspectors and the state or Province of			
Norwood, Ha. have inspected the componer			
		ef, the Owner has performed	
taken corrective measures described in t			
Section XI.	· 1	1 1	
By signing this certificate neither t			
implied, concerning the examinations and			
neither the Inspector nor his employer s			or property
damage or a loss of any kind arising fro	om or connected with this	inspection.	
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	and the second second		
MINIE & Much	Commissions	IB 8230 (NACL)	
Inspectors Signature		onal Board, State, Providence	e. and Endorsemen
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11/11/ - 0.1			
Date Plother 5 1975			
<del> </del>	0 1	•	
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1. Owner FI	lorida Power & Light Name	<u></u>		Date	10/10/95	<u>.                                    </u>	<del></del>
700 Unive	erse Blvd. Juno Beach Fi Address	. 33408		Sheet1	of_	2	<del></del>
2. PlantTo	urkey Point Plant Name		_	Unit PWO #:4938/63	3 ko #: 940188	387 CR #:	94-167
9700 SW 3	344 Street, Florida City Address	y, Fl. 33034	<del>-</del> .	Repair Organi	zation P.O.	No.,Job No.,e	tc
e.	d by <u>Florida Power &amp; I</u> Name		_	Type Code Symbol Authorization No Expiration Date	•	N/A	
<del></del>	32, Princeton, Fl. 3303 Address		<b></b>				
5. (a) Applicabl	n of System:	В	31.1	19 <u>55_</u> Edit	ion, <u>NA</u> A	ddenda, <u>N/A</u> C	ode Cas
	e Edition of Section XI on of Components Repaire				10n, <u>N/A</u> A0	denda, <u>N/A</u> C	ode Cas
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National   Board	Other Identification	Year  Built	Replaced or	ASME   Code  Stamp  Yes/No
EAVY HEX NUT(1)	H/A	H/A	N/A	SA-194 GR 2H 3/4"-   UNC-2B MOV-3-535	UNK	Replacement	No
SUBLE END STUD(2)	N/A	N/A	N/A	SA-193 GR B7 TYPE 3	UNK 	Replacement	No I
			•		<u> </u>	!	
			ļ. 1				
7. Description o	of Work: REPLACED 1 BOL	T AND 2 STUDS.			·		_
					-		_
,				<u> </u>	·		
8. Tests Conduct	ted: Hydrostatic:	Pneum	atic:	Nominal Operat	ing Pressure	:X	
	Other	Press	ure	psig	re	•F	

	FORM NIS-2 (Back)	!	!
P. Remarks: NONE	e l		i i I i jesto je je je je
	1		<del>(************************************</del>
			<del>                                     </del>
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	•	1	
		<del></del>	<del> </del>
V		. !	· · · · · · · · · · · · · · · · · · ·
CE	RTIFICATE OF COMPLIANCE	: !	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!	
We certify that the statements made in the re ASME Code, Section XI.	port are correct and the	nis replacement conform	s to the rules of the
	· !	!	
Type Code Symbol Stamp	N/A		
		Expiration Date _	
Signed Signed Owner or Owner's Designee Title	Cohonent Blinger	- Date Tirtaha	- /- 19 - 5, -
Owner or Owner's Designee / Title			
		·	<del> </del>
CERTIF	FICATE OF INSERVICE INS	PECTION	
I, the undersigned, holding a valid comm	nission issued by the N	ational Board of Boiler	and Pressure Vessel
inspectors and the state or Province of Dao	de County and employed	by Arkwright Mutual Ins	urance Company of
Norwood, Ma. have inspected the components 10/03/95 and state that to the best of			
taken corrective measures described in this	Owners Report in acco	rdance with the require	ments of the ASME Code,
Section XI.		· L	i i
By signing this certificate neither the implied, concerning the examinations and co			
neither the inspector nor his employer shall			
damage or a loss of any kind arising from o	or connected with this	inspection.	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 1 1	1
family &			: I I I
Inspectors Signature		B 8230 (N)(I) pal Board, State, Provi	dence, and Endorsements
1000	1 1	in a survey of the survey of t	in a series of the series
Date 6/2 for 10 1055			: i i i
		1	I I

1.	OwnerFlorida	Power & Light Name		_	Date	10/10/95	<b>.</b>	
	700 Universe B	Ilvd. Juno Beach Fl Address	. 33408		Sheet1	of_		
2.	Plant Turkey	Point Plant			Unit			0/ 1/3
		Name			PWO #:4939/63	WO #: 940189	705 CR #:	94-167
	9700 SW 344 St	reet, Florida City Address	, Fl. 33034	H	Repair Organi	ization P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Florida Power & L Name	ight		Type Code Symbol Authorization No	·	N/A	<del></del>
	P.O. Box 4332, Pr	rinceton, Fl. 33032 Address			Expiration Date			
4.	Identification of S	System: R	EACTOR_COOLAN	T SYSTEM	System #:41	Quality	Group: A_	
5.	(a) Applicable Cons	struction Code	B:	31.1	19 <u>55_</u> Edit	ion, NA A	ddenda, <u>N/A</u> C	ode Case
	(b) Applicable Edit	tion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edit	tion, N/A A	ddenda, <u>W/A</u> C	ode Case
6.	Identification of (	Components Repaired	or Replaced	and Replace	ment Components		<b>Y</b>	
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National: Board.		Year 'Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
AVY	HEX NUT(12)	N/A	N/A .	N/A	SA-194 GR 2H 3/4" 10 UNC-2B MOV-3-536	UNK	Replacement	No
MBLE	END STUD	H/A	N/A	N/A	SA-193 GR B7 TYPE 3	JUNK	Replacement	No
				ļ, Į	<u> </u>			. <u> </u>
			1	į į		!	<u> </u> 	
				İ			<u> </u>	
			*	!				
7.	Description of Worl	K: REPLACED 12 HEX	C NUTS, AND 1-	DOUBLE END	STUD			
								<del></del>
								<del></del>
	***************************************						<u>.</u>	
							_	
8.	Tests Conducted:	Hydrostatic:	Pneuma	itic:	Nominal Operat	ing:Pressure	<u> </u>	
		OtherVT-1/2_	Pressu	re <u>2</u> 280	psig Test Temperatu	re 5	25 •F	

#### FORM NIS-2 (Back)

CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this replacement conforms to the rules of ASME Code, Section XI.  Type Code Symbol Stamp    W/A				NG NEEDED.	AL CONNECTION, NO WELDING	Keliarks: Mechanicat
We certify that the statements made in the report are correct and this replacement conforms to the rules of ASHE Code, Section XI.  Type Code Symbol Stamp N/A Expiration Date N/A  Signed N/A Expiration Date N/A  Signed N/A Expiration Date N/A  CERTIFICATE OF INSERVICE INSPECTION  1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vess inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Na. have inspected the components described in this Owners Report during the period 09/28/95 and state that to the best of my knowledge and belief, the Owner has performed examinations taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  NB 8230 (N)(1)		9 9 i			,	
We certify that the statements made in the report are correct and this replacement conforms to the rules of ASHE Code, Section XI.  Type Code Symbol Stamp N/A Expiration Date N/A  Signed N/A Expiration Date N/A  Signed N/A Expiration Date N/A  CERTIFICATE OF INSERVICE INSPECTION  1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vess inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Na. have inspected the components described in this Owners Report during the period 09/28/95 and state that to the best of my knowledge and belief, the Owner has performed examinations taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  NB 8230 (N)(1)	<del></del>		<del></del>			
We certify that the statements made in the report are correct and this replacement conforms to the rules of ASHE Code, Section XI.  Type Code Symbol Stamp N/A Expiration Date N/A  Signed N/A Expiration Date N/A  Signed N/A Expiration Date N/A  CERTIFICATE OF INSERVICE INSPECTION  1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vess inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Na. have inspected the components described in this Owners Report during the period 09/28/95 and state that to the best of my knowledge and belief, the Owner has performed examinations taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  NB 8230 (N)(1)						
We certify that the statements made in the report are correct and this replacement conforms to the rules of ASME Code, Section XI.  Type Code Symbol Stamp  N/A  Expiration Date  N/A  Signed  N/A  Signed  N/A  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vess inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Na. have inspected the components described in this Owners Report during the period 09/28/95 and state that to the best of my knowledge and belief, the Owner has performed examinations taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.		: i				
We certify that the statements made in the report are correct and this replacement conforms to the rules of ASME Code, Section XI.  Type Code Symbol Stamp  N/A  Expiration Date  N/A  Signed  N/A  Signed  N/A  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vess inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Na. have inspected the components described in this Owners Report during the period 09/28/95 and state that to the best of my knowledge and belief, the Owner has performed examinations taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.						
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Certificate of Authorization No.  N/A  Signed    Commissions   N/A		1 1 1	W /A		l Ctomp	Timo Codo Cimbol
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Construction in Section 1971	e Company of   09/28/95   to examinations and of the ASME Coo ressed or Furthermore,	t Mutual Insurance furing the period her has performed a the requirements any warranty, expans Owner's Report personal Injury	d employed by Ark n this Owners Rep ge and belief, th ort in accordance or his employer m asures described in any manner fo	of Dade Coun onents descri est of my kn in this Owner er the Inspec and correcti er shall be l	I the state or Province of have inspected the component and state that to the besive measures described in this certificate neither erning the examinations an aspector nor his employer	inspectors and Norwood, Ma. ha 10/03/95 an taken correctiv Section XI. By signing t implied, concer neither the Ins
Construction in Section 1971		i i i			1/1	/
Commissions no octo (17/17)			1 1 1 1	· <u>u</u>	1/1//	Sumi
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Daye X(1) 11 / 3.	, and Endorsemen	state, Providence	* National BC	_	orssignature	A A
					4 / 0 19 / 3.	Date XUM Mu

1. 0	wner <u>Florida</u>	Power & Light		_	Date	10/05/95	<u>;                                    </u>	
_	700 Universe B	lvd. Juno Beach Fl Address	. 33408	_	Sheet1	of_	2	
2. P	lantTurkey	Point Plant Name		<b></b>	Unit_ PNO #:63/3051 NO #	3 #: 950270		95-96
-	9700 SW 344 St	reet, Florida City Address	, Fl. 33034		Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. W	ork Performed by	Florida Power & L Name	ight	_	Type Code Symbol Sta Authorization No Expiration Date		N/A	
-	P.O. Box 4332, Pr	inceton, Fl. 33032 Address		_				<del></del>
		system: 8			System #:46			ode Cas
(	b) Applicable Edit		Utilized for I	Repairs or	Replacements 19 <u>89</u> Edition			
     	Name of Component	Name of Manufacturer	  Manufacturer   Serial No.	National Board	Other Identification	Year  Built	Repaired Replaced or Replacement	
2" PIPIN 304 SS	IG.	N/A	N/A	  N/A 	UTC376808 ASME SA-312	UNK.	  Replacement 	Yes/No No
TEE 304 SS		N/A	N/A	N/A .	UTC354808 ASME SA-182  GR 304F	_i	Replacement	No
ELBOW 304 SS		N/A	N/A 	N/A 	UTC369679 ASHE SA-182  GR 304F	_i	Replacement	No
DIAPHRAM	1 VALVE	ITT GRINELL	N/A 	N/A 	VLV 3-348 	_i	Replacement	No
DIAPHRAM	I VALVE	ITT GRINELL	75-4104-30-  6	N/A	UTC378096 VLV 3-348 ASME SA-351 GR CF8	1976	Replacement	Yes
7. 0	escription of Worl	k: <u>PIPING, TEE, E</u> l	LBOW, VALVE AN	D COUPLING	REPLACED DUE TO PIPING TH	ROUGH WA	LL LEAK.	
8. 1	Tests Conducted:	Hydrostatic: X Other VT-2		ntic:				

FUKM	N.	2.5	(RS	ICK)
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emarks: ALL WELDING PERFORMED IN ACCORDAN	ICE WITH APPROVED	PLANT PROCED	URES.			<del></del>
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	CERTIFICATE O	F COMPLIANCE		1 1		1 1
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We certify that the statements made in t SME Code, Section XI.	he report are co	rrect and this	rep <del>èpaène</del> nt d	onforms to	the rules	of the
one code, section XI.	0 I			1 1	1	
					i	
Type Code Symbol Stamp		N/A	· · · · · · · · · · · · · · · · · · ·	<del> </del>	<del>-</del>	
Certificate of Authorization No.	N/A	1 1 1 1	Expiration	Date	N/A	
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Signed White The Milm	Technical in		Date <u></u>	cont.	10	<u> روڪ 19</u>
Owner or Owner's Designees	Title	1 1 1 1				
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				1 1	i.	
С	ERTIFICATE OF IN	SERVICE INSPEC	CTION	1 1		
1, the undersigned, holding a valid	l commission issu	ed by the Nati	ional Board of	Boiler an	d Pressure	Vessel
inspectors and the state or Province o	of Dade County an	d employed by	Arkwright Mut	ual Insura	nce Company	
Norwood, Ma. have inspected the compon						
10/04/95 and state that to the bes						
taken corrective measures described in Section XI.	"this Owners Rep	ort in accord	ince with the	requiremen	ts of the A	ISME Code
By signing this certificate neither	the Inspector n	or his employe	er makes any w	arrantv. e	xpressed or	•
implied, concerning the examinations a	nd corrective me	asures describ	ed in this Ow	ner's Repo	rt. Further	more,
neither the Inspector nor his employer	shall be liable	: in any mannel	r for any pers			
damage or a loss of any kind arising f	rom or connected	with this ins	spection.		1	1 1
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flell of flent	Commiss		B230 (N)(1)		<u> </u>	
Inspectors Signature		National	l Board, State	, Providen	ce, and En	dorsemen
MDD.					i	
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Date bloken 6 1995			•	. ! ! . ! !		
Date bloker 6 19.95		•	•			
oate Coloter 6 1995			•			

1. Owner Florida	Power & Light	····	<del>-</del> .	Date	10/10/95	5	
700 Universe B	Lvd. Juno Beach Fl Address	. 33408	<del>_</del>	Sheet1_	of_	,2	
2. PlantTurkey	Point Plant Name			Unit	3 #: 950045		
9700 SW 344 St	reet, Florida City Address	, Fl. 33034	_	Repair Organizat	ion P O	No. Joh No. e	
3. Work Performed by_		ight	_	Type Code Symbol Sta	amp	N/A	
P.O. Box 4332, Pr	Name	<b>!</b>		Authorization No Expiration Date		N/A N/A	
	Address			System #:41	Oual Sev	Group: A	
	tion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition			
Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National Board	Other   Identification	Year  Built	Replaced or	ASME Code Stamp
RESSURIZER RELIEF VALVE	  N/A	N69877000004	N/A	RV-3-551B	UNK	Replaced	No
RESSURIZER RELIEF VALVE	N/A	N69877010008	N/A	RV-3-551B	UNK	Replacement	No
		<u>i</u>   	i 	i   	<del>-  </del>	<u> </u> 	
							[
7. Description of Worl	k: REMOVE/REPLACE	PRESSURIZER S	AFETY VALVE	RV-3-5518 WITH SPARE IN	PRESSURI	ZER	<u> </u>
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8. Tests Conducted:	Hydrostatic:	Pneuma	itic:	Nominal Operating	Pressure	<u> </u>	_
	Other <u>VT-1/2</u>	Pressu	ıre <u>2280</u>	_psig Test Temperature	5	•F	

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	FORM NIS-2 (Back)	!	!		1 1	!
9.	Remarks: NONE		1			
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l	CERTIFICATE OF COMPLIANCE		!		1 1	i
ĺ	We certify that the statements made in the report are correct and this replacement	confo	nns t	o the ru	iles of t	he
İ	ASME Code, Section XI.	1	1	1		
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i	Type Code Symbol StampN/A		į			
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1	Certificate of Authorization No. N/A Expiration	Date	_	N/A	• • •	
į.	Signed I Durit - Tool And The Things Date	(j-h	1.2	10	19 🐔	-
İ	Owner or Owner's Designee, Tifle		!			
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į		!	!	1		
1	CERTIFICATE OF INSERVICE INSPECTION	1	1		1 1	i
	I, the undersigned, holding a valid commission issued by the National Board of inspectors and the state or Province of Dade County and employed by Arkwright Mut	ual II	าร์นาย	nce Comp	any of	
1	Norwood, Ma. have inspected the components described in this Owners Report during 10/04/95 and state that to the best of my knowledge and belief, the Owner has	the p	perio	xd 02/	21/95	to
i	taken corrective measures described in this Owners Report in accordance with the	requi	remer	its of th	ie ASME (	iiki Code.
ļ	Section XI.	:		i		,
!	By signing this certificate neither the Inspector nor his employer makes any involved concerning the experience and concerning	arran	ty, e	xpressed	or	!
l	implied, concerning the examinations and corrective measures described in this On neither the Inspector nor his employer shall be liable in any manner for any pers	mer's	Repo	irt. Furt	hermore,	, ;
İ	damage or a loss of any kind arising from or connected with this inspection.		111)(1	y or pro	percy	
ŀ		!	1	!		
ì		1	1	1		
ij	The Commissions NB 8230 (N)(I)	!	1	1		
!	Inspectors Signature National Board, State	, Pro	vider	ice, and	Endorse	nents
l	1/A/	!	1	i I		
i	0ate 10 10 1995	1	1	1		
1		1	1	i		

1. Owner Florida Power & Light Name				Date	10/10/95	5	
700 Universe B	tvd. Juno Beach Ft Address	. 33408	_	Sheet1	of_	2	<del></del>
2. Plant Turkey	Point Plant Name	-	•	Unit			
9700 SW 344 St	reet, Florida City Address	, Fl. 33034	_	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. Work Performed by Florida Power & Light Name				Type-Code Symbol Stamp N/A Authorization No. N/A Expiration Date N/A			
P.O. Box 4332, Pr	Address		<del>-</del> т	System #:41	_Quality	Group: A	
				19 <u>55</u> _Edition			
(b) Applicable Edit  6. Identification of C				Replacements 19 <u>89</u> Edition	n <u>, N/A</u> A	ddenda, <u>N/A</u> C	ode Case
Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National Board	Other   Identification	Year  Built	Repaired Replaced or Replacement	ASME Code Stamp Yes/No
ESSURIZER RELIEF VLV	N/A	N/A	N/A	RV-3-551C	UNK	Replaced	No
ESSURIZER RELIEF VLV	N/A	N6877010009	N/A	RV-3-551C	UNK	Replacement	No I
	<u>'</u>		<u>i</u> 1		<u> </u>	i	
					ļ		1
7. Description of Work	REMOVE/REPLACE	PRESSURIZER S	SAFETY VALVE	RV-3-551C WITH SPARE IN	PRESSURI	ZER	<u> </u>
							<u> </u>
8. Tests Conducted:	Hydrostatic:	Pneuma	ntic:	Nominal Operating	Pressure	eX	

	FORM NIS-2 (Back)			i i i	1 1 1
. Remarks:					
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c	CERTIFICATE OF COMPLIANC	E	: : : : : :	1 1 1	-
We certify that the statements made in the r ASME Code, Section XI.	eport are correct and t	his replacement o	conforms t	o the rules	of the
			: : i		
Type Code Symbol Stamp	N/A	<del></del>	╌┼╌╌┼		<del></del>
Certificate of Authorization NoN	I/A	Expiration	Date	N/A	
Signed Signed Holin Te	Song Polomate	Date	1.+ 10		19 5°5
Owner/or Ownér's Désignee/Titl	.e /				
CERTI	IFICATE OF INSERVICE INS	SPECTION			
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Inspectors signature  Date Oloha 10 19 95	Natio	NB 8230 (N)(I) onal Board, State	, Provider	nce, and End	dorsements
19 / 3		• • • • •			

1.	Owner Florida	Power & Light			Date	10/04/9	5	
•••		Name	-	_				
	700 Universe B	lvd. Juno Beach F	l. 33408	_	Sheet1	of	_ 2	
		Address						
2.	PlantTurkey				Unit	3	<del></del>	
		Name			, PWO'#:63/7459	WO #: 94000	6/3	
	9700 SW 344 St	reet, Florida Cit	y, Fl. 33034	_				<del></del>
		Address			Repair · Or	ganization P.O.	No.,Job No.,e	:tc
3.	Work Performed by	Florida Power &	Light	_		mbol Stamp		
Name					Authorization No. N/A Expiration Date N/A			
	P.O. Box 4332, Pr	inceton, Fl. 3303 Address	2	<del>_</del>	expiración o			
۷.	Identification of S	veten:	Feedvater		System #:7	4 Quality	Group: B	
		-		•		<del></del>		
5.	(a) Applicable Cons	truction Code	B:	31.1	19 <u>55</u>	Edition, <u>NA</u> A	ddenda, <u>N/A</u>	ode Cas
	(b).Applicable Edit	ion of Section XI	Utilized for	Repairs or	Replacements 1989	Edition, N/A A	ddenda, N/A C	code Cas
			4			· · · · · · · · · · · · · · · · · · ·	· <del></del>	
٥.	Identification of C	omponents Repaire	а ог керівсеа	and Replace	ment Components		<del>,</del>	- <del></del>
	Name of Component	Name: of   Manufacturer	Manufacturer   Serial No.	National Board	Other   Identifica	Year  tion  Built 	Repaired Replaced or Replacement	ASKE   Code  Stamp
			_	<u>                                     </u>				Yes/No
EAVY	HEX NUT (16)	N/A 	N/A 	H/A	UTC 377471 CV-3-2	902   N/A	Replacement	) No
TUOS	(16)	H/A	H/A	N/A	UTC377474 CV-3-29  A-193	02   N/A	Replacement	Но
			 			ļ	` <b> </b>	
······································			'				4 ·	<del> </del>
			1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	†
		<u> </u>	<u> </u>	<u>i ·                                     </u>	<u>i</u>	i	<u> </u>	<u> </u>
7.	Description of World	un Replaced 16 st	uds and 16 nut	s on valve	cv-3-2902.			
		A STATE OF THE STA	•				,	
		ing a	<del> </del>				<del></del>	
	7,54°			<del> </del>				<del></del>
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_					Nonlant Co.	mahima Dassassas	•	•
8.	Tests Conducted:	Hydrostatic:	Pneum	stic:	Nominal Ope	erating Pressure	<del></del>	
		Other <u>VT≪</u>	Pressu	Jre	_psig Test Temper	rature	•F	

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TALL THE STATE OF	FORM NIS-2 (Back)	: :	
	TOWN HIS-C (DOCK)	!!	
Remarks: MECHANICAL CONNECTION. NO WELDING R	EQUIRED.		
		<del></del>	<del></del>
		<u> </u>	<u> </u>
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		<del></del>	
		<del></del>	
	i i	: :	
	CERTIFICATE OF COMPLIANCE	1 1	i i
We certify that the statements made in the	report are correct and this	replacement conforms	to the cules of the
ASME Code, Section XI.	•		to the rates of the
	1	1 1	·
Type Code Symbol Stamp	N/A		
		: :	4
Certificate of Author Zation No	N/A	Expiration Date	N/A G
Signed At Am /fre	DET TOM	Dato 10-0	4 1995
Owner or Owner's Designee, Tit	le	1 1 1 1 1 1	
	. :		
· · · · · · · · · · · · · · · · · · ·	-		•
CERT	IFICATE OF INSERVICE INSPEC	TION	
I, the undersigned, holding a valid co	maission issued by the Nati	onal Board of Boiler	and Pressure Vessel
inspectors and the state or Province of D	ade County and employed by	Arkwright Mutual Insu	rance Company of
Norwood, Na. have inspected the component 10/04/95 and state that to the best of	s described in this Owners : of my knowledge and ballief	Report during the peri	od 02/03/95 to
taken corrective measures described in th	is Owners Report in accorda	nce with the requirem	ents.of the ASME Code,
Section XI.	· · · · · · · · · · · · · · · · · · ·		-
By signing this certificate neither th implied, concerning the examinations and	e Inspector nor his employe	r makes any warranty,	expressed or
neither the Inspector nor his employer sh	all be liable in any manner	for any personal init	ury of property
damage or a lower of any kind arising from	or connected with this ins	pection.	
Some St. Kl.			
fill " ) for	Commissions <u>NB 8</u>	230 (N)(I)	
Inspectors Signature	National	Board, State, Provide	ence, and Endorsements
1 12/4 0-		: : : :	
Date /0 / -7 19 73			i
	· · · · · · · · · · · · · · · · · · ·		·

# FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS AS Required by the Provisions of the ASME Code Section XI

1. OwnerFlorida	Power'& Light Name		nes.	Date	10/04/95	5	
700 Universe B	lvd. Juno Beach F Address	1. 33408	<del>_</del>	Sheet 1	of_	2	
2. Plant Turkey	Point Plant Name			Unit		521	
9700 SW 344 St	reet, Florida City Address	y, Fl. 33034	<del>-</del>	Repair Organizat	ion P.O.	No.,Job No.,e	te
3. Work Performed by	Florida Power & 1 Name	Light	_	Type Code Symbol Sta Authorization No Expiration Date		N/A	
	inceton, Fl. 3303 Address						
5. (a) Applicable Cons	truction Code	B3	31.1	System #:41 19 <u>55</u> Edition	<u>, NA</u> A	ddenda, <u>N/A</u> C	ode Cas
(b) Applicable Edit  6. Identification of C				Replacements 19 <u>89</u> Edition	<u>, N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
Name of Component	Name of Manufacturer	Hanufacturer   Serial No.	National   Board	Other Identification	Year  Built	Repaired Replaced or Replacement	: -
RESSURIZER RELIEF VALVE	N/A	1579	  H/A	RV-3-551A	UNK	Replaced	Yes/No
RESSURIZER RELIEF VALVE	N/A	ม-5124 91580	N/A	RV-3-551A	UNK	Replacement	No
····			<u> </u> 				<u> </u> 
	1						
7. Description of World	k: PRESSURIZER SA	AFETY VALVE RV-	3-551A REMO	OVED AND SPARE INSTALLED.			_
•							
<del></del>							
8. Tests Conducted:	Hydrostatic:	Pneuma	ntic:	Nominal Operating	Pressure	eX	
	Other	Pressu	ıre	_psig Test Temperature_		•F	

FORM	NIS-2 (Back)
. Remarks: MECHANICAL_CONNECTION - NO WELDING REQUIRED.	
. Kemarks: Mechanical Connection - No Weeding Regulates.	
CERTIFICA	ATE OF COMPLIANCE
the state of the s	consert and this conjugates conforms to the rules of the
We certify that the statements made in the report an ASME Code, Section XI.	re correct and this replacement conforms to the rules of the
The state of the s	
	•
Type Code Symbol Stamp	N/A
Certificate of Authorization No. N/A	Expiration Date N/A
signed March Fine A fish Technica	Internal table in sole
Owner or Owner's Designee 7 Title	7 /0/3
Contest of Onice 3 Designedy Trees,	
CERTIFICATE	OF INSERVICE INSPECTION
inspectors and the state or Province of Dade Coun Norwood, Ma. have inspected the components descrito/04/95 and state that to the best of my kn taken corrective measures described in this Owner Section XI.  By signing this certificate neither the Inspection of the Examinations and correction neither the Inspector nor his employer shall be to	nowledge and belief, the Owner has performed examinations and selection accordance with the requirements of the ASME Code, etcr nor his employer makes any warranty, expressed or live measures described in this Owner's Report. Furthermore, liable in any manner for any personal injury or property
damage or a loss of any kind arising from or conn	ected with this inspection.
Aunie & Blan - co	ommissions NB 8230 (N)(I)
Inspectors Stanature  Date Clother 6 19 95	National Board, State, Providence, and Endorsements

## FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS AS Required by the Provisions of the ASME Code Section XI

1. OwnerFlorida	Power & Light		_	Date	10/04/9	5	
700 Universe B	Blvd. Juno Beach F Address	1. 33408		Sheet 1	of	2	
2. Plant Turkey	Point Plant Name		<del></del>	Unit			
9700 SW 344 St	reet, Florida Cit Address	y, Fl. 33034	_	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. Work:Performed by_	Florida Power & 'Name	Light	_ ·	Type Code Symbol St. Authorization No Expiration Date		N/A	
	rinceton, Fl. 3303 Address		_				
4. Identification of S	System:	FEEDWATER		System #: <u>74</u>	_Quality	Group: B	
5. (a) Applicable Cons	struction Code	B:	31.1	19 <u>55_</u> Edition	<u>, NA</u> A	ddenda, <u>N/A</u> C	ode Cas
(b) Applicable Edit				Replacements 19 <u>89</u> Edition	, <u>N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
Name of Component	Name of Manufacturer	Manufacturer Serial No.	•	Other   Identification 	Year  Built 	Repaired Replaced or Replacement	ASME   Code  Stamp  Yes/No
TUD (6)	N/A	N/A	N/A	R94-1769 VLV 3-20-232 SA 193	UNK	Replacement	Мо
UTS (6)	N/A	N/A 	N/A 	R94-1769 VLV 3-20-232	UNK	Replacement	No I
······································	1	1			-	<u> </u>	<u> </u> 
1	<u> </u>	<u>i</u> !	<u> </u>		-		<u>                                     </u>
7. Description of Wor	k: REPLACED 6 STU	JDS AND 6 NUTS	ON BODY TO	BONNET.			<u></u>
			<del>-</del>	<del></del>			
<del> </del>			<del></del>		<del></del>		—
							<del></del>
						<del></del>	
8. Tests Conducted:	Hydrostatic:	Pneuma	atic:	Nominal Operating	Pressure	e	
	Other	Pressu	ıre <u>.                                    </u>	_psig Test Temperature		•F	

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	FORM NIS-	-2 (Back)			1 1	1
Remarks: MECHANICAL CONNECTION, NO WELDI	ING REQUIRED.					
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		·				<del></del>
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
			<del>`</del> <del>`</del> <del>`</del>	1 1 1		
					<del></del>	<del></del>
	CERTIFICATE O	F COMPLIANCE		1 1 1		
	· i		. :	1 1 1		
We certify that the statements made in ASME Code, Section XI.	the report are co	rrect and this	replacement con	forms to t	he rules of	the
none tode, section xt.				1 1 i		
Type Code Symbol Stamp		N/A	· · · · · · · · · · · · · · · · · · ·			
Certificate of Authorization No.	N/A		Expirațion Da	te	N/A	
and the Allendary	The Technial	Min	Date Det	(h /		سسريتني
Signed White or Owner's Designee		7-121-105:47		77	19_	
•						
				1 1 1		
	CERTIFICATE OF IN	ISERVICE INSPECT	TION	i		
I, the undersigned, holding a val	id commission issu	ed by the Natio	nnal Roard of Ro	iler and F	Pressure Ve	sšel
inspectors and the state or Province						
Norwood, Ha. have inspected the comp						
10/04/95 and state that to the backen corrective measures described						
Section XI.	in this owners kep	ort in accorda	nce with the req	urrements	of the Ash	: code,
By signing this certificate neith	er the Inspector r	nor his employe	r makes any warr	anty, exp	ressed or	1
implied, concerning the examinations						re, :
neither the Inspector nor his employ	er shall be liable	e in any manner	for any persona	l injury (	on, property	1 1
damage or a loss of any kind arising	from or connected	d with this ins	pection.			
	· · · · · · · · · · · · · · · · · · ·			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Burne						
Inspectors Signature	Commiss		230 (N)(I) Board, State, P	novidonao	ond Endon	COMORTO.
Inspectors Signature		JEHOLJEN	ovaru, state, F	a ov raence	, and English	SCHOOLS
1 Kattle 1 oc			_			
Date Cloon 6 1995	1	•	•	1 1 1		

## FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. OwnerFloi	rida Power & Light • Name			Date	10/10/95		
700 Univers	se Blvd. Juno Beach F Address	1. 33408	_	Sheet1	of_	2	
2. PlantTuri	key Point Plant Name		_	Unit PWO #:2539/63 WO #			
9700 SW 344	Street, Florida Cit Address	y, Fl. 33034		Repair Organization	on P.O.	No.,Job No.,e	tc
3. Work Performed I	oy <u>Florida Power &amp;</u> Name	Light		Type Code Symbol Star Authorization No Expiration Date		N/A	<u> </u>
	, <u>Princeton, Ft. 3303</u> Address						
				System #:43			
	Edition of Section XI			Replacements 19 <u>89 Edition,</u>	<u>N/A</u> Ad	ldenda, <u>N/A</u> C	ode Cas
Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National   Board	Other Identification	Year  Built	Replaced or	ASME Code Stamp
UTS (8)	H/A	N/A	N/A	SA-194 R95-0078	UNK		Yes/No No
TUDS (4)	'[H/A 	N/A	H/A   	A-193 GR B7 VALVE 3-500  UNC-2A X	UNK		No
			i ! .		<u> </u>		
7. Description of	Work: 8 NUTS AND 4 S	STUDS REPLACED	ON FLANGE E	Y VALVE 3-500.	,		
		<u></u>	<del></del>	<del> </del>	•		<del></del>
			-		<del></del>		_
						<del></del>	<del></del>
8. Tests Conducted	d: Hydrostatic:	Pneuma	atic:	Nominal Operating F	, ressure	x	<del></del>
	Other <u>VT-1</u>	Pressu	ıre	_psig Test Temperature		•F	

			1 1		
	FORM NIS-2	(Back)	1 1		1
	· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1	1 1	1	
Remarks: MECHANICAL CONNECTION, NO WELDED REQ	UIRED.	<del>l</del>	<del></del>	<del> </del>	<del></del>
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	· i		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	ERTIFICATE OF	CÔMPI TANCE	1 1		
•	ERTITIONIE OF	JOH CIANOC	1		
We certify that the statements made in the r	eport are corr	ect and this replace	ment conforms t	o the rules of th	e
ASME Code, Section XI.			1 1	i i	
	· · · · · · · · · · · · · · · · · · ·		1 1	1	
Type Code Symbol Stamp		N/A	: :		
Certificate of Authorization No.	I/A	ı ı ı Evmin	ation Date	N/A	
certificate of Authorization Ro.			acton bate	N/A	
signed Augusti The A 11th	. Then	13/200 Date_	1 mohz	<u>( ) 19 %.</u>	<u> </u>
Owner or Owner's Designee, Titl	re l		1 1 1	1	
4		. <u>*</u>		·	
		······································		<del></del>	
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		1 1		
CERTI	FICATE OF INSE	RVICE INSPECTION	1 1		ì
I, the undersigned, holding a valid com	mmission issued	by the National Boa	rd of Boiler ar	xd Pressure Vessel	ļ
inspectors and the state or Province of Da	de County and	employed by Arkwrigh	it Mutual Insura	nce Company of	
Norwood, Ma. have inspected the components					
10/04/95 and state that to the best of taken corrective measures described in the	-		-		
Section XI.		weer warred #150			,
By signing this certificate neither the	-			•	ì
implied, concerning the examinations and					i
neither the Inspector nor his employer she damage or a loss of any kind arising from				y or property	
	O. COLLOGIC	The time inspections		1	
	· i	1 1 1 1 1	1 1		
Auni & Blank	Commissio	ons <u>NB 8230 (N) (</u>	,,,		
Inspectors Signature				nce, and Endorseme	ents
			1 1	1	
Date Cotohe 10 1995			! !	1	
not 1 /2/10 10 10 95	· i	_	1 1	1	

## FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASHE Code Section XI

1. 0	OwnerFlorida	Power & Light		_	Date	10/04/95	3	
	700 Universe B	New Address	1. 33408	<del>-</del>	Sheet1	of_	2	
2. 1	Plant Turkey	Point Plant Name	··	_	Unit PWO #:63/1976 WO #	3 : 950197	741	
•	9700 SW 344 St	reet, Florida City Address	y, Fl. 33034	_	Repair Organizati	on P.O.	No.,Job No.,e	tc
3. 1	Work Performed by_	Florida Power & I Name	Light	<del>-</del> .	Type Code Symbol Sta Authorization No Expiration Date		N/A	<u> </u>
	P.O. Box 4332, Pr	rinceton, Fl. 33033 Address	2		Expiración bate		7/.0	•
					System #:19 19 <u>55_</u> Edition,			
		tion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition,			
	Name of Component	Name of Hanufacturer	Manufacturer   Serial No.	National Board	Other Identification	Year  Built	Repaired Replaced or Replacement	ASME   Code  Stamp  Yes/No
VER S	TUDS, (16)	HAYWARD	N/A	N/A	5 1/2 X UTC 0000372070 U 90-6200 BS-3-1403	N/A	Replacement	No
TS (1	6)	H/A 	N/A   	N/A 	ASME SA-194 GR 2H R95-0154 BS-3-1403	N/A	Replacement	No
		ı					<u> </u>   	
				 	<u> </u>		] !	
7.	Description of Wor	k: REPLACED COVER	STUDS(16) AND	(16)NUTS.				
8.	Tests Conducted:	Hydrostatic:	Pneuma	atic:	Nominal Operating	Pressure	<u> </u>	
		Other	Pressu	ıre	_psig Test Temperature		*F	

	FORM N	is-2 (I	lack)		:	:	i				
Remarks: <u>HECHANICAL CONNECTION, NO WELDING</u>	REQUIRED.					!	:				
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		1	<del></del>	*	<del></del>					<del></del>	<del>-</del>
		i .	•		·				<del></del>		
										·	
	CERTIFICATE	OF CO	IPLIANCE		!	1	1	ı	1	1	
We certify that the statements made in the SME Code, Section XI.	report are	correc	t and this	replacemen	nt con	form	s to	the	rules	s of	the
Type Code Symbol Stamp	· · · · · · · · · · · · · · · · · · ·	H/	A			:		·		J	
Certificate of Authorization No.	N/A		i . i . i	Expirat	ion Da	te _	:	, N	/A		

#### CERTIFICATE OF INSERVICE INSPECTION

Mint from thing / Color of their is

1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkwright Mutual Insurance Company of Norwood, Ma. have inspected the components described in this Owners Report during the period 07/13/95 to 10/04/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions NB 8230 (N)(1)
Inspectors Signature National Board, State, Providence, and Endorsements-

### FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS AS Required by the Provisions of the ASME Code Section XI

1. OwnerFlorida	a Power & Light Name		<del>_</del>	Date	10/04/95	5	<u></u>
700 Universe E	Blvd. Juno Beach F Address	l. 33408	_	Sheet1	of_	22	
2. PlantTurkey	Point Plant Name		_	Unit	3 : 95009	370	
9700 SW 344 St	treet, Florida Cit Address	y, Fl. 33034	<del></del>	Repair Organizati	on P.O.	No.,Job No.,e	tc
3. Work Performed by	Name		_	Type Code Symbol Sta Authorization No Expiration Date		N/A	
	Address			System #:72	Quality	Group: B	
	tion of Section XI	Utilized for	Repairs on	19 <u>55</u> Edition, Replacements 19 <u>89</u> Edition, ment Components			
Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National   Board	Other   Identification	Year Built	Replaced or	ASME Code Stamp
TUDS (3) 7/8"-8UN X 10"	H/A	N/A	N/A	R93-2404 VLV POV-3-2604	UNK.	Replacement	No
UTS (3) 7/8"-8UN-2B	N/A	N/A.	N/A 	(1)R93-2485,(2)R93-1915  VLV POV-3-2604 SA-194	UNK.	Replacement	No I
		l.	<u> </u>	<u> </u>	<u> </u>		
	1	<u> </u>			<u> </u> 	<u> </u>	<u> </u> 
7. Description of Wor	k: 3 STUDS AND 3	NUTS WERE REPL	ACED.				_
			•				
		,					
8. Tests Conducted:	Hydrostatic:	Pneum	atic:				
	OtherVT-1	Pressi	ure	_psig Test Temperature		•F	

#### FORM NIS-2 (Back)

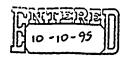
marks: MECHANICAL CONNECTION, NO WELDING REQU	ILDED.
Mai KS. HECHANICAE CONNECTION, NO WILESTING NEW	
A-1	
•	
CEF	RTIFICATE OF COMPLIANCE
le certify that the statements made in the rep ME Code, Section XI.	port are correct and this replacement conforms to the rules of the
Type Code Symbol Stamp	N/A
· · · · · · · · · · · · · · · · · · ·	
Certificate of Authorization NoN/	A Expiration Date N/A
Signed Library Arha	The Miner Date Prosher to 19 60
Owner or Owner's Designee, Title	
<del></del>	
CERTIF	ICATE OF INSERVICE INSPECTION
	mission issued by the National Board of Boiler and Pressure Vessel
	de County and employed by Arkwright Mutual Insurance Company of described in this Owners Report during the period 03/31/95 to
	my knowledge and belief, the Owner has performed examinations and
taken corrective measures described in this	S Owners Report in accordance with the requirements of the ASME Code
Section XI.	
	Inspector nor his employer makes any warranty, expressed or
	orrective measures described in this Owner's Report. Furthermore,
	It be liable in any manner for any personal injury or property
damage or a loss of any kind arising from o	or connected with this inspection.
Mulle B Blen	Commissions NB 8230 (N)(I)
Inspectors Signature	National Board, State, Providence, and Endorsemen
1 11 600	
Date October 6 1995	
Date October 6 1995	
Date October 6 1995	

# FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASHE Code-Section XI

1. OwnerFlorida	Power & Light	<del></del>	_	Date1	0/04/95	3	
700 Universe B	tvd. Juno Beach F	1. 33408	_	Sheet1	of_	2 .	
2. Plant Turkey			_	Unit			
9700 SW 344 St	reet, Florida City Address	y, Fl. 33034		Repair Organizatio	n P.O.	No.,Job No.,e	tc
3. Work Performed by	Name		<del>-</del> 	Type Code Symbol Stam Authorization No Expiration Date		·N/A	
				System #:740			
	ion-of Section XI	Utilized for	Repairs or	19 <u>55</u> Edition, Replacements 19 <u>89</u> Edition, ment Components			
Name of Component	Name of .Manufacturer	Manufacturer   Serial No.	National Board	Other Identification	Year  Built	Replaced or	ASHE Code Stamp
TUDS (16)	H/A	N/A	N/A	(10)R95-0067,(6)UTC377474 VLV CV-3-2901 A-193	UNK	Replacement	No
UTS (16)	H/A	N/A	H/A	UTC377471 VLV CV-3-2901	UNK	Replacement	NO   
	1		   		   		
7. Description of Work	: (16) STUDS AND	(16) NUTS REP	LACED ON CV	7-3-2901 DURING SOER 86-03 1	NSPECT	ION.	<u>i</u>
8. Tests Conducted:	Hydrostatic:	Pneum	otic:		ressure	·	
	Other VT-1	Pressu	ıre	_psig Test Temperature		•F	

### FORM NIS-2 (Back)

	ELDING REQUIRED.	
		1 2
	<del></del>	
	CERTIFICATE OF COMPLIANCE	
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Type Code Symbol Stamp	H/A	
Certificate of Authorization No	N/A Expiration Date N/A	
. Ma this	Ain Telment Mange Date Debies 12 194	٠.
Signed When I Tour		· , `
Owner or Owner's Desig	gnee, latte	
		_
	CERTIFICATE OF INSERVICE INSPECTION	
	CERTIFICATE OF INSERVICE INSPECTION	_
	valid commission issued by the National Board of Boiler and Pressure Vess	sel
inspectors and the state or Provi	valid commission issued by the National Board of Boiler and Pressure Vessince of Dade County and employed by Arkwright Mutual Insurance Company of	
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## FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1.	Owner Florida	Power & Light Name		_	Date	10/05/99	<u>;</u>	
	700 Universe B	lvd. Juno Beach Fl Address	33408		Sheet1	of_	22	
2.	PlantTurkey_	Point Plant Name		_	Unit PWO #:2867/63	3 Wo #: 950259		95-89
	9700 SW 344 St	reet, Florida City Address	/, Fl. 33034	<del></del>	Repair Organ	nization P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Name			Type Code Symbo Authorization Date	No	N/A	
	P.O. Box 4332, Pr	Address			0	a!.!a	<b>Common S</b>	
					System #: <u>46</u> 19 <u>55_</u> Ed			
		tion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Ed			
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National Board	Other   Identificati	Year on Built	Replaced or	ASME Code Stamp
PIPE		N/A	N/A	N/A	UTC376808 ASHE SA-3	12 UNK.	Replacement	No
E 34 SS		N/A	N/A	N/A	R95-0637 ASHE SA-18	2 UNK.	Replacement	Ко
BOWS	(2)	N/A	N/A	N/A	R95-0637 ASHE SA-18	2   UNK.	Replacement	No
				<u> </u> 		<u>'</u>	<u> </u> 	<u> </u> 
	Description of Worl	3A & 3B BA PMP DIS			TO THRU WALL LEAK ON	BORIC ACID TR	ANSFER	
		•						
8.	Tests Conducted:	Hydrostatic: X		ntic:		nting Pressure		

### FORM NIS-2 (Back)

marks: ALL WELDING PERFORMED IN ACC	ORDANCE WITH APPROVED PLANT PROCEDURES.
<del></del>	
	CERTIFICATE OF COMPLIANCE
de certify that the statements made ME Code, Section XI.	in the report are correct and this replacement conforms to the rules of the
Time Cade Combal Cham	1 1 1
Type Code Symbol Stamp	N/A
Certificate of Authorization No.	, N/A Expiration Date N/A
( a sil 2 T	
Signed Wilnestof Chief	Allen Technistillines Date Portiche 10 1965
Owner or Owner's Design	ee, Title/
al .	
	CERTIFICATE OF INSERVICE INSPECTION
inspectors and the state or Provide Norwood, Ma. have inspected the control of th	valid commission issued by the National Board of Boiler and Pressure Vessel nice of Dade County and employed by Arkwright Mutual Insurance Company of emponents described in this Owners Report during the period 09/20/95 to be best of my knowledge and belief, the Owner has performed examinations and ed in this Owners Report in accordance with the requirements of the ASME Code ither the Inspector nor his employer makes any warranty, expressed or ons and corrective measures described in this Owner's Report. Furthermore, loyer shall be liable in any manner for any personal injury or property ing from or connected with this inspection.
•	
Munich Blue to	Commissions NB_8230_(N)(I)
Inspectors Signature	شنبة الإنجاب ويتراب ويترابن فلنت التالي التالي والتالي والتالي والتالي والتالي والتالي والتالي والتالي والتالي
,	National Board, State, Providence, and Endorsement
	National Board, State, Providence, and Endorsemen
D +1 1 a	National Board, State, Providence, and Endorsement
Date October 6 1995	National Board, State, Providence, and Endorsement

## FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code: Section XI

1.	Owner Florida	Power & Light Name		_	Date	10/05/95	5	
	700 Universe B	lvd. Juno Beach F Address	1. 33408		Sheet 1	of_	2	
2.	Plant Turkey I	Point Plant Name	· · · · · · · · · · · · · · · · · · ·	<del></del>	Unit			<del></del>
	9700 SW 344 St	reet, Florida Cit Address	y, Fl. 33034	_	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3.	Work Performed by	Florida Power & Name	Light		Type Code Symbol St Authorization No Expiration(Date		N/A	
	P.O. Box 4332, Pr	inceton, Fl. 3303 Address	2	_				
					System #:41 19 <u>55</u> Edition			
		ion of Section XI	Utilized for	Repairs or	Replacements 19 <u>89</u> Edition			
	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National Board	Other   Identification	Year  Built	Replaced or	ASME Code Stamp Yes/No
HNET	EXTENSION	COPES VULCAN	N/A	N/A	PCV-3-455B	UNK	Replacement	No
		<u> </u> 				, 	] 	
					<u> </u> 	<u> </u>		<u>i</u> 
7.	Description of Work	:_ RECONDITIONED	VALVE BONNET E	XTENSION FR	OM PCV-4-455A W095006940	WAS INST	ALLED	_
	ON VALVE PCV-3-4558	3.		<del> </del>				
			1					
								_
8.	Tests Conducted:	Hydrostatic:	Pneum	ntic:		Pressure	xx	
		OtherVT-2	Pressu	ıre	_psig Test Temperature_		^•F	

FORM	NIS+2 (Back)
. Remarks: MECHANICAL CONNECTION, NO WELDING REQUIRED.	· · · · · · · · · · · · · · · · · · ·
. Religit KS: Mechanical Connection, no wilebing Resources.	
CERTIFICA	TE OF COMPLIANCE
ASME Code, Section XI.	e correct and this replacement conforms to the rules of the
Type Code Symbol Stamp	
Certificate of Authorization No. N/A	Expiration Date H/A
Signed Librail For Ren Tech	and Min Date Mchiber to 19 97
Owner or Owner's Designee, Title	
CERTIFICATE C	OF INSERVICE INSPECTION
inspectors and the state or Province of Dade Count Norwood, Ma. have inspected the components describ 10/05/95 and state that to the best of my knot taken corrective measures described in this Owners Section XI. By signing this certificate neither the Inspection implied, concerning the examinations and corrective	issued by the National Board of Boiler and Pressure Vessel by and employed by Arkwright Mutual Insurance Company of ped in this Owners Report during the period 12/29/94 to owledge and belief, the Owner has performed examinations and as Report in accordance with the requirements of the ASME Code, tor nor his employer makes any warranty, expressed or we measures described in this Owner's Report. Furthermore, iable in any manner for any personal injury or property

damage or a loss of any kind arising from or connected with this inspection.

Conmissions

95-057-3

National Board, State, Providence, and Endorsements

## FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. OwnerFlori	da Power & Light		_	Date	10/12/95	·	
700 Universe	Blvd. Juno Beach F Address	l. 33408	_	Sheet 1	of_	2	
2. Plant Turke	ey Point Plant Name		_	Unit	3 #: 950242	280	
9700 SW 344	Street, Florida Cit Address	y, Fl. 33034		Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. Work Performed by	Y Florida Power & Name Princeton, Fl. 3303		<del></del>	Type Code Symbol Sta Authorization No Expiration Date		N/A	
	Address		T	System #:41	_Quality	Group: A	
				19 <u>55_</u> Edition			
(b) Applicable Ed				Replacements 19 <u>89</u> Edition	, <u>N/A</u> A	ddenda, <u>N/A</u> C	ode Cas
Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National   Board	Other   Identification	Year  Built	Replaced or	ASME Code Stamp
TUDS (4)	N/A	N/A	N/A	R92-0244 SA-193 3/4"  GR_B7 3P200B	UNK	Replacement	No
UTS (8)	N/A	N/A	N/A	R95-0154 SA-194 3/4" IGR 2H 3P2008	UNK	Replacement	No I
<del></del>						i !	
		i.		]			.  
7. Description of W	ork: REPLACED 4 NE	H STUDS AND 8 N	iuts.				
8. Tests Conducted:			atic: ure 2280 _				
	Other <u>VT-1/2</u>	Press	ui 6 <u>2200</u>	_para reac respendence		'	-

CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are carrect and this replacement conforms to the rules of the ASHE Code, Section XI.  Type Code Symbol Stamp  N/A  Certificate of Authorization No.  N/A  Signed  Certificate of Authorization No.  N/A  Expiration Date  N/A  Signed  Owner of Owner's Designee, Title  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Beard of Boiler and Pressure Vessel inspectors and the state or Province of Dade County and employed by Arkuright Nutural Insurance Company of Norwood, Ms. have inspected the components described in this Owners Report during the period O9/05/95 to 10/12/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners Report during the period O9/05/95 to 10/12/95 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners, report and taken corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.		
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Commissions NB 8230 (N)(I)

National Board, State, Providence, and Endorsements

# FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS AS Required by the Provisions of the ASME Code Section XI

1. Он	ner <u>Florida</u>	Power & Light Name		<b>-</b>	Date	10/12/95	<del></del>	
_	700 Universe Bl	vd. Juno Beach Fl Address	. 33408	_	Sheet1	of_	2	
2. Pla	ant <u>Turkey F</u>	Point Plant Name		-	Unit			
_	9700 SW 344 Str	reet, Florida City Address	, Fl. 33034	_	Repair Organiz	ation P.O.	No.,Job No.,e	tc
3. Wo	rk Performed by	Florida Power & L	ight	_	Type Code Symbol : Authorization No.		N/A	
	P:O. Box 4332, Pr	inceton, Fl. 33032 Address	2	<del></del>	Expiration Date _	<del> </del>	N/A	
					System #:72			
5. (a	) Applicable Cons	truction Code	8:	31.1	19 <u>55_</u> Editi	on, <u>NA</u> Ad	ldenda, <u>N/A</u> C	ode Case
	o) Applicable Edit				Replacements 19 <u>89</u> Editi	on, N/A Ad	ldenda, <u>N/A</u> C	ode Case
	Name of Component	Name of Hanufacturer	Manufacturer Serial No.	National Board	Other   Identification	Year  Built  	•	ASME Code Stamp Yes/No
ruds (2)	)	H/A	N/A	N/A	R93-2404 1 7/8" POV-3-2605	UNK		No
JTS(2)		N/A	H/A	N/A 	R93-2485 1 7/8"  P0V-3-2605	UNK		Мо
		1	n n	 	1			-
		<u>i</u>		<u> </u>		_		<u> </u> 
7. D	escription of Work	: Replaced 2 stu	ds and 2 nuts.		<u> </u>			.l
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_				····				<del></del>
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8. T	ests Conducted:	Hydrostatic:	Pneum	atic:	Nominal Operation	ng Pressure	<u> </u>	
		Other VT-1	Pressi	ure	_psig Test Temperatur	e <u>-</u>	•F	

	FORM NI	S-2 (Back)		1 1		1 1	i
Remarks:		i !		1 1	1		
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		: <del> </del>		· · ·	i <del>1</del>		
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	CERTIFICATE	DF COMPLIANCE		1 1			İ
We certify that the statements made	in the report are c	orrect and this	replacement c	onforms t	the rul	es of the	e !
ASME Code, Section XI.		•		1 1			
		 		: :			
Type Code Symbol Stamp		N/A	<del></del>		<del> </del>		-
Certificate of Authorization No	N/A		Expiration	Date	N/A		_,
Signed Shall And	Ach Tel.	I Man for		266	/2		- 
Owner or Owner's Design	nee, Title	21 00 0025 72.00	uate	2007	/ -	19	<b>-</b> '
				1 1			
					<del>                                     </del>		
	CENTIFICATE OF I	HOSSULOS INCOSO	r au	1 1		1 1	
	CERTIFICATE OF I	NSEKVICE INSPEC	ION	1 1		1 1	1
I, the undersigned, holding a	valid commission iss	ued by the Natio	onal Board of	Boiler an	d Pressur	e Vessel	
inspectors and the state or Provid Norwood, Ma. have inspected the co	nce,of Dade County a omponents described	nd employed by / in this Owners !	Arkwright Mutu Report during	al∷Insura the perio	nce Compa d 03/3	iny of ' 1/95 to	, n
10/12/95 and state that to the	e best of my knowle	dge and belief,	the Owner has	performe	d examina	tions and	d
taken corrective measures describe	ed in this Owners Re	port in accorda	nce with the r	equiremen	ts of the	ASME Co	de,
By signing this certificate ne	ither the Inspector	nor his employe	makes any wa	rranty, e	xpressed	or	
implied, concerning the examination	ons and corrective m	easures describ	ed in this Own	er's Repo	rt. Furth	ermorè.	
neither the Inspector nor his employment damage or a loss of any kind aris	loyer shall be liabl	e in any manner	for any perso	nal injur	a or brob	erty	'
and and an arrangement are arr	The strong of Connected	· ,	ection.		i		
		i I		1 1			
MIMIL Atim	Commis	sions NB 8	230 (N)(I)	: :			
Inspectors Signature			Board, State,	Providen	ce, and E	ndorsemei	nts
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1 Data 10 10 her 12 1995				1 1			
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### FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner Flori	da Power & Light		<del>_</del>	Date	10/12/99	5	
700 Universe	Blvd. Juno Beach Fl Address	1. 33408	<del></del>	Sheet1	of	2	
2. PlantTurke	ey Point Plant Name		<del>_</del>	Unit	3 #: 950242		—
9700 SW 344	Street, Florida City Address	y, Fl. 33034		Repair Organizati	ion P.O.	No.,Job No.,e	tc
3. Work Performed by	/ Florida Power & I Name	Light	<u>.</u>	Type Code Symbol Sta Authorization No Expiration Date		N/A	
P.O. Box 4332,	Princeton, Fl. 33033 Address	2	_				
				System #:41			
5. (a) Applicable Co	onstruction Code	B:	31.1	19 <u>55_</u> Edition	, <u>NA</u> A	ddenda, <u>N/A</u> C	ode Cas
(b) Applicable Ed			•	Replacements 19 <u>89</u> Edition, ment Components	, <u>n/a</u> a	ddenda, <u>N/A</u> C	ode Cas
Name of Component	Name of Hanufacturer	Manufacturer Serial No.	National Board	Other Identification	Year  Built	Repaired Replaced or Replacement	1
  STUDS (4)  1"-8UNC-2A	H/A	-	  h/a 	UTC335689 ASME SA-193	UNK.	Replacement	Yes/No No
NUTS (8)   1"	N/A	H/A 	N/A	UTC370714 ASHE SA-194 I3P200A SEAL INJ FLANGE	UNK.	Replacement	NO 
STUOS (8)  7/8"-9UNC-2A	N/A	H/A	N/A	UTC356870 ASHE SA-193	JUNK.	Replacement	No I
NUTS (16) 7/8'	H/A  -	H/A	N/A 	UTC351581 ASME SA-194 3P200A THERMAL BARRIER	UNK.	Replacement	No
	ļ 	<u> </u>	[; 	<u> </u>	<u> </u> 	<u> </u> 	1.
•	ork: (4) STUDS AND			CP SEAL INJECTION FLANGE	AND (8)	STUDS	
8. Tests Conducted:	Hydrostatic:	Pneuma	itic:	Nominal Operating	Pressure	<u> </u>	
	Other VT1/2	Pressu	ıre <u>2280</u>	_psig Test Temperature	5	•F	

	FORM NIS-2 (Back)	
marks: MECHANICAL CONNECTION, NO WELDING	REQUIRED.	
		10
<u> </u>		
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,		
	CERTIFICATE OF COMPLIANCE	
e certify that the statements made in the	e report are correct and this replacement conforms to the rule	s of the
ME Code, Section XI.		
Type Code Symbol Stamp	N/A	<del> </del>
Certificate of Authorization No.	N/A Expiration Date N/A	
Signed Yav Dandy PAUL	BANASTAK FOR BOWELL Date 10/16	19 <u>75</u>
United of Owner's Designee.	THE TATE OFF THE TOTAL CONTRACTOR	1 1
	1 Colo DE 1 Million ASIC	
2	TOUR DE FAMILIE	-
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)	RTIFICATE OF INSERVICE INSPECTION	
CE	RTIFICATE OF INSERVICE INSPECTION	
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I, the undersigned, holding a valid inspectors and the state or Province of Norwood, Ma. have inspected the compone 10/12/95 and state that to the best taken corrective measures described in Section XI.  By signing this certificate neither implied, concerning the examinations an neither the inspector nor his employer damage or a loss of any kind arising from the inspectors Signature	RTIFICATE OF INSERVICE INSPECTION  commission issued by the National Board of Boiler and Pressure Dade County and employed by Arkwright Mutual Insurance Companints described in this Owners Report during the period 09/05 of my knowledge and belief, the Owner has performed examinat this Owners Report in accordance with the requirements of the the Inspector nor his employer makes any warranty, expressed of discorrective measures described in this Owner's Report. Furthe shall be liable in any manner for any personal injury or proper own or connected with this inspection.	y of /95 to ions and ASME Cod er ermore,
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### FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS AS Required by the Provisions of the ASME Code Section XI

1.	OwnerFlorida	Power & Light	<del></del>	_	Dato1	<u>1/13/99</u>	5	
e .	700 Universe E	Blvd. Juno Beach Fl Address	. 33408	_	Sheet1	of_	2	
2.	PlantTurkey	Point Plant Name		<del></del>	Unit	3 95028		
	9700 SW 344 SI	treet, Florida City Address	, Fl. 33034	_	Repair Organizatio	n P.O.	No.,Job No.,e	tc
3.	Work Performed by_	Florida Power & t	.ight	_	Type Code Symbol Stam Authorization No		N/A	
	P.O. Box 4332, P	rinceton, FU. 33032 Address	2	<del></del>	Expiration Date		N/A	
4.	Identification of	System:	INTAKE COOLING	WATER	System #:190	uality	Group: C	
5.	(a) Applicable Con	struction Code	8:	31.1	19 <u>55</u> Edition,_	NA A	ddenda, <u>N/A</u> C	ode. Cas
	(b) Applicable Edi				Replacements 19 <u>89</u> Edition,_ ment Components	<u>n/a</u> _a	ddenda, <u>N/A</u> C	ode Cas
<u></u>	Name of Component	Name of Manufacturer	Manufacturer   Serial No.	National   Board	Other   Identification	Year  Built	Repaired Replaced or Replacement	•
INTAKE WATER P	COOLING	JOHNSTON JOHNSTON JOHNSTON	N/A	  N/A 	MODEL 33 CMC 1ST-2	UNK.	Replaced	Yes/No  No
	COOLING	JOHNSTON PUMP	N/A	N/A	MODEL 33 CMC IST-6	UNK.	Replacement	Но
STUDS (		N/A	H/A	N/A:	R94-1520 ASHE A-193 GR B7	UNK.	Replacement	No
   				_		<u>i</u> 	<u>i</u> !	
7.	Description of Wor	k: 38 INTAKE COOL	ING WATER PUMP	IST-2 REPL	ACED WITH SPARE IST-6.			<u> </u>
			***					
								<u> </u>
o	Tanka Cardinasid	Underge 2 -	Duck		Nominal Operating Po	PACCUE!	. Y	_
8.	Tests Conducted:	Hydrostatic:           Other         VT-1/2		ntic: ure <u>16.3</u> _				

### FORM NIS-2 (Back)

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_ <b>*</b>				1 1 1	
	CERTIFICATE (	DF COMPLIANCE			
We certify that the statements made i SME Code, Section XI.	n the report are c	orrect and this	s replacement co	nforms to t	he rules of the
Type Code Symbol Stamp	<u> </u>	N/A	<del></del>		· · · · · · · · · · · · · · · · · · ·
Certificate of Authorization No	N/A		Expiration D	ate	N/A · ·
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Owner or Owner's designed	ee, Title	UCI I MANIE			
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				1 1 1	
,	CERTIFICATE OF I	NSERVICE INSPE	CTI >	1 1 1	
I, the undersigned, holding a vinspectors and the state or Province Norwood, Ma. have inspected the constitution of the taken corrective measures described Section XI.  By signing this certificate neiting time implied, concerning the examination neither the Inspector nor his employments of any kind arising the state of the section of	ce of Dade County a mponents described best of my knowle d in this Owners Re ther the Inspector ns and corrective m oyer shall be liab	in this Owners dge and belief port in accord nor his employ measures descri	Arkwright Mutual Report during t , the Owner has ance with the re er makes any war bed in this Owner for any person	Insurance the period performed equirements cranty, expl er's Report	e Company of 10/09/95 to examinations and of the ASME Cooressed or Furthermore,
Junio K. Allen L	Comis	ssions NB	8230 (N)(1)		
Inspectors Signature			Board, State,	Providence	, and Endorseme
Date 11 /20 19 93					
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### FORM NIS-2 OWNERS REPORT FOR REPAIRS OR REPLACEMENTS AS Required by the Provisions of the ASME Code Section XI

1. OwnerFloric	da Power & Light Name	<del></del>	<b>-</b>	Date	11/17/9	5	<del></del> -
700 Universe	Blvd. Juno Beach F Address	1. 33408	_	Sheet1	of		
2. Plant Turkey	Point Plant Name			Unit	#: 95013	045	
9700 SW 344 S	Street, Florida Cit Address	y, Fl. 33034	<del>-</del>	Repair Organizat	ion P.O.	No.,Job No.,e	tc
3. Work Performed by P.O. Box 4332, F	Florida Power & Name Princeton, Fl. 3303 Address	- · <del>-</del> · · ·	<del>-</del>	Type Code Symbol St Authorization No Expiration Date		·N/A	
				System #: 19			
	ition of Section XI	Utilized for	Repairs or	19 <u>55</u> Edition Replacements 19 <u>89</u> Edition ment Components			
Name of Component	Name of Manufacturer	Manufacturer   Serial No.	•	Other   Identification	Year  Built	Replaced or	ASME Code Stamp
VALVE (3P9B)	N/A	W6730	N/A	3-50-321	UNK	Replaced	No
VALVE (3P98)	N/A	75204	N/A	3-50-321 R 95-0795 UTC 0000369237	UNK	Replacement	Но
UD (1)	N/A	N/A 1	H/A	1-1/8" -8UN-2A X 19"  UTC 0000383150	UNK	Replacement	No
TS (2)	H/A	N/A	N/A	40774	UNK	Replacement	No
							<u> </u>
7. Description of Wor	rk: <u>REMOVE/REP</u> LACE	SPARE CHECK V	ALVE FOR IN	ITAKE COOLING WATER PUMP E	(3P98)		— — —
8. Tests Conducted:	Hydrostatic:OtherVT-1/2	<del></del>	<del></del>	Nominal Operating			_

	FORM	NIS-2 (Back)				1 1
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	CERTIFICA	TE OF COMPLIÂNC	E	t t		
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We certify that the statements made in	the report ar	e correct and the	his replaceme	ent conforms to	o the rules of	the
ASME Code, Section XI.				1 1	1	
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Type Code Symbol Stamp		N/A		1 1		1 1
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Certificate of Authorization No	N/A	<u> </u>	Expirat	tion Date	N/A	
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	CERTIFICATE O	F INSERVICE INS	PECTION	1 1	1	
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I, the undersigned, holding a vali inspectors and the state or Province	of Dade Count	issued by the N	by Arkuricht	or soller an	d Pressure vess	set
Norwood, Ma. have inspected the compo						to
11/17/95 and state that to the bo						
taken corrective measures described i						
Section XI.		I			1	•
By signing this certificate neither						1 1
implied, concerning the examinations						e,
neither the Inspector nor his employe				personal∃injur	y or property	
damage or a loss of any kind arising	from or conne	cted with this	inspection.	1 1	!	1 1
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3-1000 18015 09/11/95 P / /

12.8750 P Snubber 3-1000 visual inspection report TP-95-22 revealed the following items described in Deviation Report 015-TP-95-22:

- 10) Both spherical bearings have minor paint and light rust.
- 11) Snubber end cap painted, both load pins have minor paint and light rust.

Spherical bearings and load pins were cleaned for minor paint and light rust under PWO 95024339. Painted snubber end cap does not affect the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable as is.

REPLACEMENT ITEMS:

M&S

4 cotter pins

R91-6050

3-1001 27095 09/15/95 P / /

17.1250 P Snubber 3-1001 visual inspection report TP-95-40 revealed the following conditions described in Deviation Report:045-TP-95-40:

- 5) One spacer is missing at the snubber end cap rear bracket.
- 10) The spherical bearing at the transition tube end has paint.
- 11) The ears of the pipe clamp are not parallel and 4 spacers are installed. The dimension between the ears of the pipe clamp at the load pin is 1 1/2" and the dimension at the pipe insulation is 1 1/4". The transition tube of the snubber does not match the configuration as indicated on the drawing. Sheet 100 of the drawing indicates that the pipe clamp is item #12 and it should indicate item #13. No snubber ID tag.

Condition Report 95-843 was written to address the drawing discrepancies and the clamp ears, item 11. Engineering evaluation showed the pipe clamp is tight and acceptable as is. The transition tube shown on the drawing will be updated via PMAI 9509070 to engineering along with the misidentified pipe clamp. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Spherical bearings were cleaned and lubricated under PMO 95024339. The missing spacer washer was replaced in accordance with engineering evaluation JPN-PTP-SECS-95-037, rev. 0, step 1.2.

REPLACEMENT ITEMS:

H&S

2 cotter pins

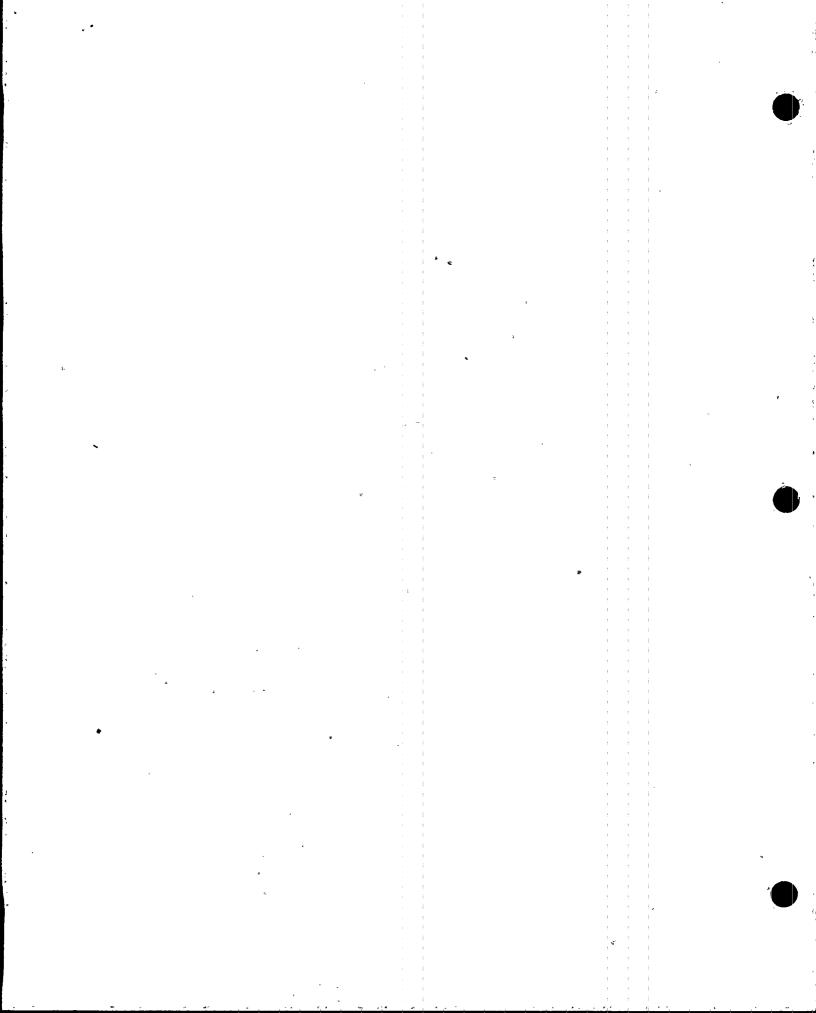
031-46301-1

1 spacer washer

·006-70905-2/R91-4598

©2 104 09/15/95 P / /

17.2500 P Snubber 3-1002 visual inspection report TP-95-41 revealed the following conditions described in Deviation Report 044-TP-95-41:



2

Turkey Point Outage Summary Report Unit 3

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5) The rear bracket is not identified in the drawing bill of materials. The transition tube does not match the configuration as indicated on the drawing. The transition tube assembly bolts were found to be flush and 1 full thread is required to be considered full engagement. The plate thickness is 1/2" and the bolt identification could not be verified due to paint. Spacers at rear bracket are welded in place.

Condition Report 95-842 was written to address the drawing discrepancies, item 5. The final engineering disposition of CR 95-842 showed the rear bracket is acceptable as is, the welded spacer washers at the rear bracket are acceptable as is, and engineering was issued PMAI 9509069 to update the drawing. The inadequate thread engagement was previously addressed under CR 95-581 was acceptable and is also identified as acceptable under CR 95-842. Spherical bearings were cleaned and lubricated under PWO 95024339.

REPLACEMENT ITEMS:

M&S

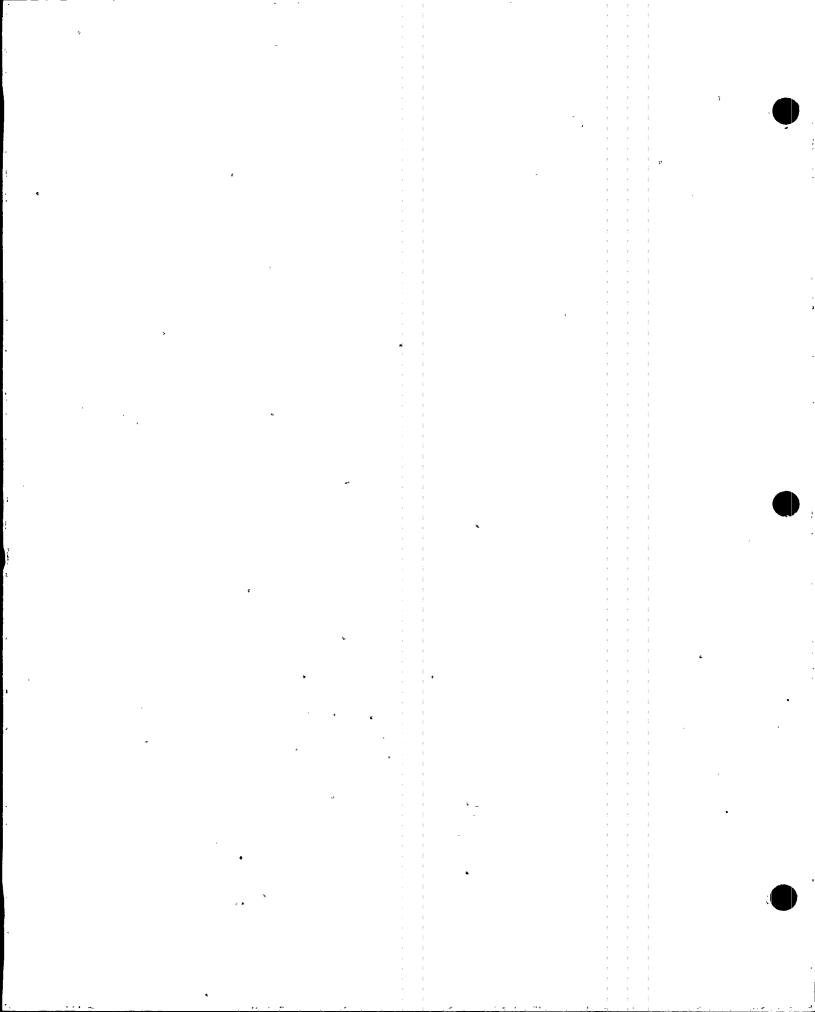
1 cotter pins

031-46301-1

3-1003 29625 09/15/95 P 09/15/95 15.6250 P Snubber 3-1003 visual inspection report TP-95-42 revealed the following conditions described in Deviation Report 039-TP-95-42:

- 1,11) The rear bracket has been modified and the drawing does not indicate the changes.
- 10) The spherical bearings have light rust and dirt.
- 11) The transition tube assembly bolts lack full thread engagement by 1/32". The transition tube plate is 1/2" thick. The bolt diameter is 5/16" and identified by L5. The drawing also indicates that items #28 are installed at that location, but it's believed that items #28 are installed at item #50. The bolts installed at item #50 are flush with the nuts and 1 full thread is required for full engagement. Note washers are also installed. Light rust on snubber and unpainted surfaces. No snubber ID tag is installed. Spacers welded in place.
- During removal of the load pin the pipe clamp rotated. The pipe clamp is insulated.

Condition Report 95-826 was written to address items 1, 5 & 11. Final disposition of CR 95-826 identified several discrepant items for updating the drawing and work to be performed in the field. Engineering was issued PMAI 9509067 to update the drawing and PMAI 9509068 was issued to projects for improper assembly. The corrective actions for the field work per the condition report were performed by projects under PWO 95025427. The snubber was functionally tested and passed, therefore meeting the technical specifications for operability. Spherical bearings were cleaned and lubricated under PWO 95024339. The light rust and paint on the snubber



3

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does not affect the operability of the snubber as evidenced by the satisfactory functional test and the condition is acceptable as is. Pipe clamp movement did not affect the snubber operation as evidenced by the satisfactory functional test and is normal for the clamp to move when the snubber is unpinned, therefore the condition is acceptable as is. The snubber ID tag will be ordered by the ISI group and installed during the next snubber inspection (TS-95-10-001). This snubber was functionally tested as part of the initial sample.

#### FUNCTIONAL TEST RESULTS

	TENSION	COMPRESSION	CRITERIA
1)	15.55	12.95	300.00
2)	28.23	20.87	300.00
3)	.002	.002	.02
4)	30.88	25.11	300.00

REPLACEMENT ITEMS:

M&S

1 load pin

006-70895-1/R89-3493

3-1004 101 09/13/95 P / /

- 17.5000 P Snubber 3-1004 visual inspection report TP-95-29 revealed the following conditions described in Deviation Report 025-TP-95-29:
  - 5) No spacer installed at pipe clamp bolt as required.
  - 10) Light to medium rust and dirt at the spherical bearings.
  - 11) 1 cotter pin damaged at pipe clamp load pin, but still performing its intended function. 4 spacers are installed at the pipe clamp load pin, 1 at the top and 3 at the bottom of the spherical bearing. Light rust on snubber and extension piece attachment bolts. No snubber ID tag.

Snubber had 3 beveled washers and 1 flat washer. Removed 1 beveled and 1 flat washer. Installed 4 flat washers and 2 beveled washers.

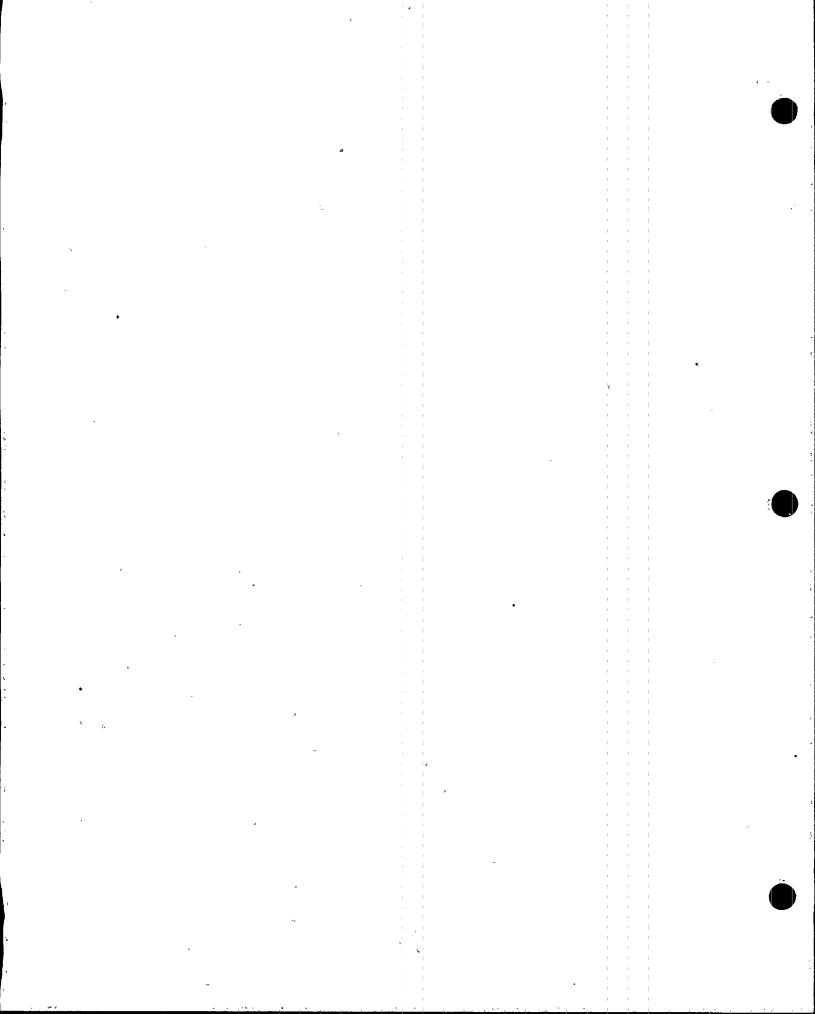
Condition Report 95-836 was written to resolve items 5 & 11. The final disposition of CR 95-836 is acceptable for use as is for all the discrepancies. As a result of CR 95-836, engineering was issued PMAI 9509139 to update the snubber drawing. The snubber ID tag will be ordered by the ISI group and will be installed during the next inspection (TS-95-10-001). Spherical bearings were cleaned and lubricated under PWO 95024339.

REPLACEMENT ITEMS:

M&S

4 spacer washers

006-70905-2/R91-4598



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4 cotter pins

031-46500-5

3-1005 10035 09/08/95 P / /

26.3750 P Snubber 3-1005 visual inspection report TP-95-04 revealed the following conditions described in Deviation Report 022-TP-95-04:

- 5) No snubber ID tag.
- 6) The snubber end caps are slightly misaligned but are not binding in rear brackets.
- 11) The bearing is worn in the end cap assembly about 1/16".

Pipe insulated.

Condition Report 95-769 was written to address end cap assembly bearing wear. Condition report 95-769 required the unpinning of the opposite end that was originally unpinned and provide the results to engineering if loose spherical bearings are found. The misalignment does not affect the operdability of the snubber as evidenced by the satisfactory handstroke and the fact the snubber is not binding in the clamp/rear bracket. Spherical bearings on both ends of the snubber were replaced by projects under CR 95-769 and PWO 95025026. Snubber as left was performed on 09/29/95. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Insulated pipe does not affect the operability of the snubber.

REPLACEMENT ITEMS:

M&S

1 cotter pins

031-49200-4/0029158-2

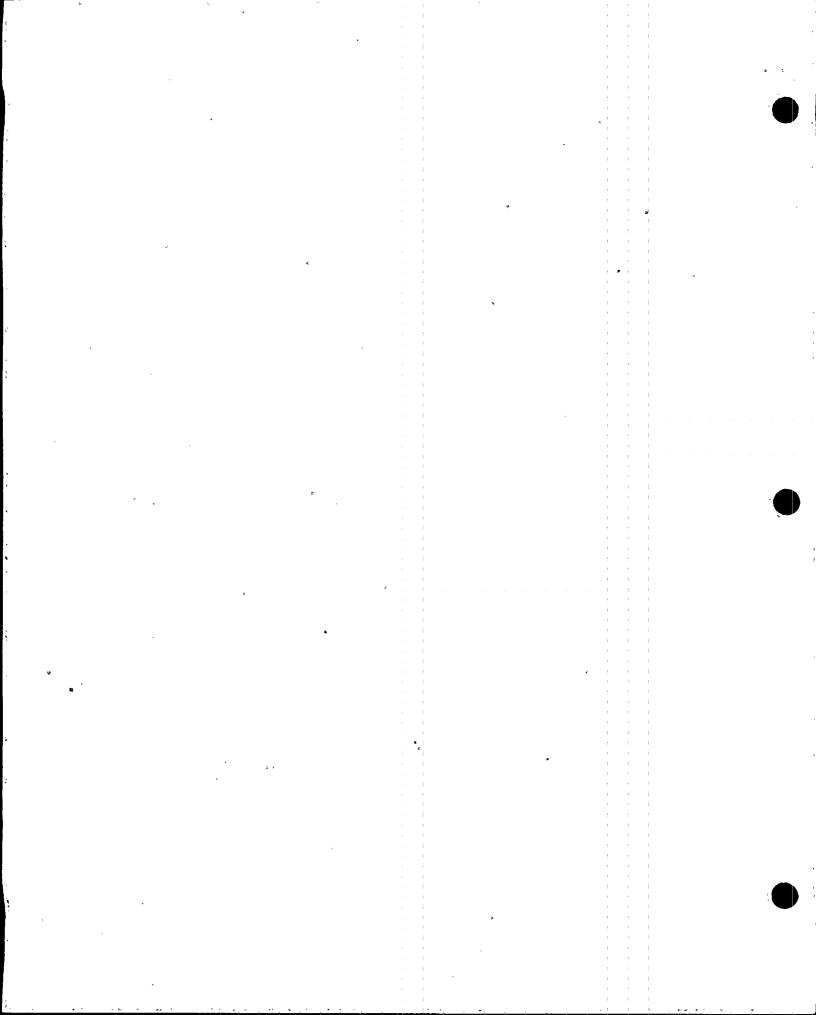
2 spherical bearings

0197330-1/0000377952

3-1006 6521 .09/08/95 P 09/08/95 P 26.7500 P Snubber 3-1006 visual inspection report TP-95-01 revealed the following conditions described in Deviation Report 01-TP-95-01:

- 1,5) The two tack welds at the extension piece end cap were found to be broken.
- 4) The spherical bearing at the extension piece end was found to have some minor play at the bearing to outer race.
- 5) The end cap nut at telescoping tube end was found to be loose (150 ft. lb. torque required). ID tag was found to be broken/missing.

Condition Report 95-714 was written to address items 1, 4 & 5. Condition report 95-769 required the unpinning of the opposite end that was originally unpinned and provide the results to engineering if loose spherical bearings are found. The snubber ID tag will be ordered by the ISI group and will be installed during the next inspection (TS-95-10-001). Reinstallation will not be by Pacific Scientific but will be performed by



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projects as part of the implementation of the CR 95-714 under PWO 95025026. PMAI 9510003 was issued to ISI group to inspect the snubber every 4 months and report the end cap to engineering if it becomes loose. Projects replaced spherical bearings on the transition tube assembly end, removed the broken tack welds, torqued the pipe end - end cap to 150 lbs with B-5140 cal due date 03/19/96 and performed the as left on 09/29/95. This snubber was functionally tested and passed as part of the initial sample.

#### FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	69.71	148.59	2500.00
2)	95.09	148.59	2500.00
3)	.006	.006	.02
4)	90.55	158.15	2500.00

REPLACEMENT ITEMS:

M&S

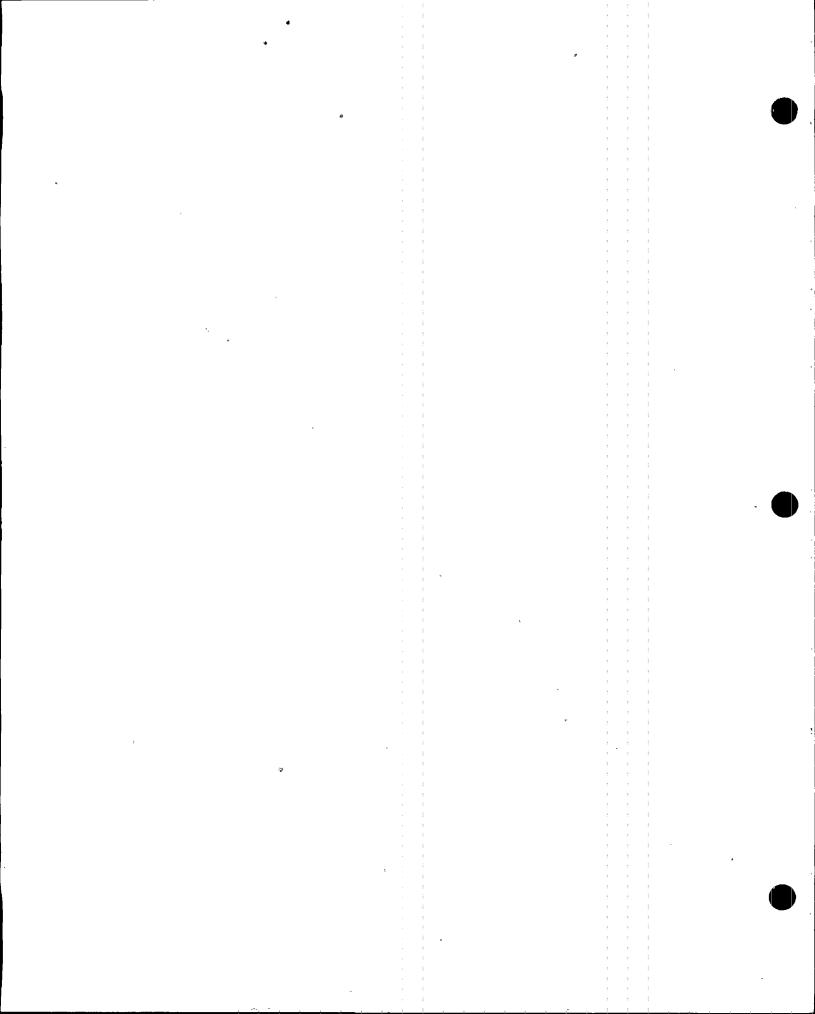
1 spherical bearing.

0197330-1/0000377952

- 3-1007 4590 09/08/95 P 09/08/95 P 27.3125 P Snubber 3-1007 visual inspection report TP-95-02 revealed the following conditions described in Deviation Report 002-TP-95-02:
  - 4) Both spherical bearings were found to have play at the bearings to outer race.
  - 5) Spacers missing at lower side of the load pin and load stud.
  - 7) The load pin diameter at the rear bracket was found to be reduced to 1.486" and the load studewas found to be reduced to 1.476" (1.5" required). Dial caliper S/N B-5538 cal. date 6/8/95, cal due date 12/05/95.
  - 10) End caps are painted.
  - 11) The lower ears of the rear bracket and pipe clamp were found to be worn in the area of the load pin and stud by the spherical bearing. Rear bracket reduced by "1/16" pipe clamp "1/8". Pipe clamp is insulated.

Condition report 95-715 was written to address items 4, 5, 7 & 11.

Condition report 95-769 required the unpinning of the opposite end that was originally unpinned and provide the results to engineering if loose spherical bearings are found. The spherical bearing was identified to be loose as a result of this inspection. Both of the spherical bearings were replaced for this snubber. Projects implemented the requirements set forth in the disposition of CR 95-715 under PWO 95025026 and the as left exam



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was performed on 09/29/95. PMAI 9510001 was issued to engineering to update the snubber drawing and PMAI 9510002 was issued to the ISI group to provide long term corrective action for the vibration problem on the mainsteam. The painted end cap does not affect the operability of the snubber as evidenced by the satisfactory functional test.

## FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	82:05	281.35	2500.00
2)	143.41	417.35	2500.00
3)	.001	.001	.02
4)	163.03	361.97	2500.00
REPLACEM	ENT ITEMS:	M&S	
2 spheri	cal bearings	<sup>©</sup> 0197330-1/0000	377952
1 load s	tud	0197328-1/0000	377933
2 hardened washers		0197329-3	
1 load p	in	0015329-1/0000	1331244

3-1008 8084 09/08/95 P / /

- 27.5000 P Snubber 3-1008 visual inspection report TP-95-06 revealed the following conditions described in Deviation Report 004-TP-95-06:
  - 5) 2 spacer washers on the strut end, one 1/4" the other 1/16". One spacer on snubber end. No snubber ID tag.

Corrected deviation for spacer washers in accordance with engineering evaluation JPN-PTP-SECS-95-037, rev 0, step 1.2. Condition report 95-769 required the unpinning of the oppisite end that was originally unpinned and provide the results to engineering if loose spherical bearings are found. No additional problems were encountered as a result of this inspection. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Spherical bearings were cleaned and lubricated under PMO 95024339. Load pin was drilled in accordance with JPN-PTP-SECS-95-037, rev 1, step 3.2 under PMO 95025170.

## REPLACEMENT ITEM:

M&S

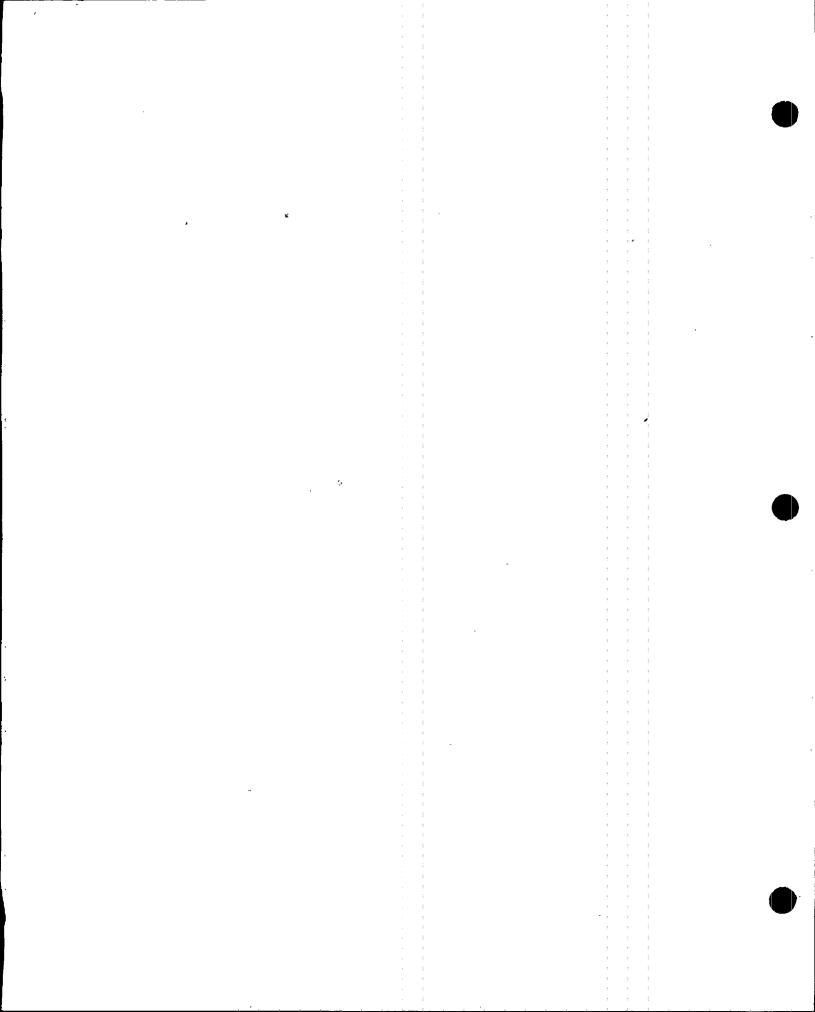
2 cotter pins

031-49200-2/0029158-4

7 spacer washers 006-70907-9

3-1009 1203 09/08/95 P / /

- 26.7500 P Snubber 3-1009 visual inspection report TP-95-08 revealed the following conditions described in Deviation Report 07-TP-95-08 and 23-TP-95-08:
  - 5) No snubber ID tag attached.
  - 10) Snubber support cyclinder and housing is painted. Light rust on



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spherical bearings and load pins.

11) Minimal wear on rear brackets from cotter pin,

Spherical bearing has 1/16" play.

Condition Report 95-769 was written to adddress worn spherical bearings on snubbers 3-1005, 3-1009 & 3-1010. Condition report 95-769 required the unpinning of the opposite end that was originally unpinned and provide the results to engineering if loose spherical bearings are found. As a result of this inspection, there was 1/16" play identified on both ends of this snubber. The condition report required the spherical bearing to be replaced and it will be done by projects under CR 95-769 and PWO 95025026. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Spherical bearing on pipe clamp end were replaced and lubricated under CR 95-769 and PWO 95024339. The minor wear on the rear bracket from the cotter pin is insignificant and is acceptable as is. As left visual examination was performed on 09/29/95. The paint on the snubber does not affect the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable as is.

REPLACEMENT ITEMS:

H&S

2 cotter pins
1 spherical bearing

031-49200-2

0197330-1/0000377952

3-1010 11931 09/08/95, P / /

- 26.3750 P Snubber 3-1010 visual inspection report TP-95-03 revealed the following conditions described in Deviation Report 21-TP-95-03:
  - 5) No snubber ID tag installed.
  - 6) Snubber end caps are slightly misaligned but are not binding in the rear bracket.
  - 10) The end caps are painted and the snubber has minor paint and firecrete on it.

The bearing on the end cap assembly is worn. Play in the race. Hinimum. 1/16" play.

Condition report 95-769 was written to address the worn spherical bearing and end cap misalignment. Condition report 95-769 required the unpinning of the opposite end that was originally unpinned and provide the results to engineering if loose spherical bearings are found. As a result of this inspection the spherical bearings on both ends of the snubber were replaced by projects under CR 95-769 and PWO 95025026. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). The firecrete and minor paint on the snubber do not affect

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the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable as is.

REPLACEMENT ITEMS:

MEC

3 cotter pin
2 spherical bearings

031-49200-2/0029158-4

0197330-1/0000377952

3-1011 12376 09/10/95 P / /

20.2500 P Snubber 3-1011 visual inspection report TP-95-07 revealed the following conditions described in Deviation Report 005-TP-95-07 and 047-TP-95-07:

11) Thread engagement on extension bolts rare recessed into the housing by 1/16°.

Condition Report 95-719 was written to address inadequate thread engagement. Condition report 95-769 required the unpinning of the opposite end that was originally unpinned and provide the results to engineering if loose spherical bearings are found. No additional problems were encountered as a result of this inspection. The thread engagement is acceptable as is per CR 95-581 with PMAI 9508107 going to engineering to update the drawing. Spherical bearings were cleaned and lubricated under PMO 95024339. The snubber load pin had an "E" clip on one end. In accrodance with engineering evaluation JPN-PTP-SECS-95-037, rev. 1, the pin was drilled per step 3.2 under PMO 95025170 and reinstalled.

REPLACEMENT ITEM:

M&S

2 cotter pins

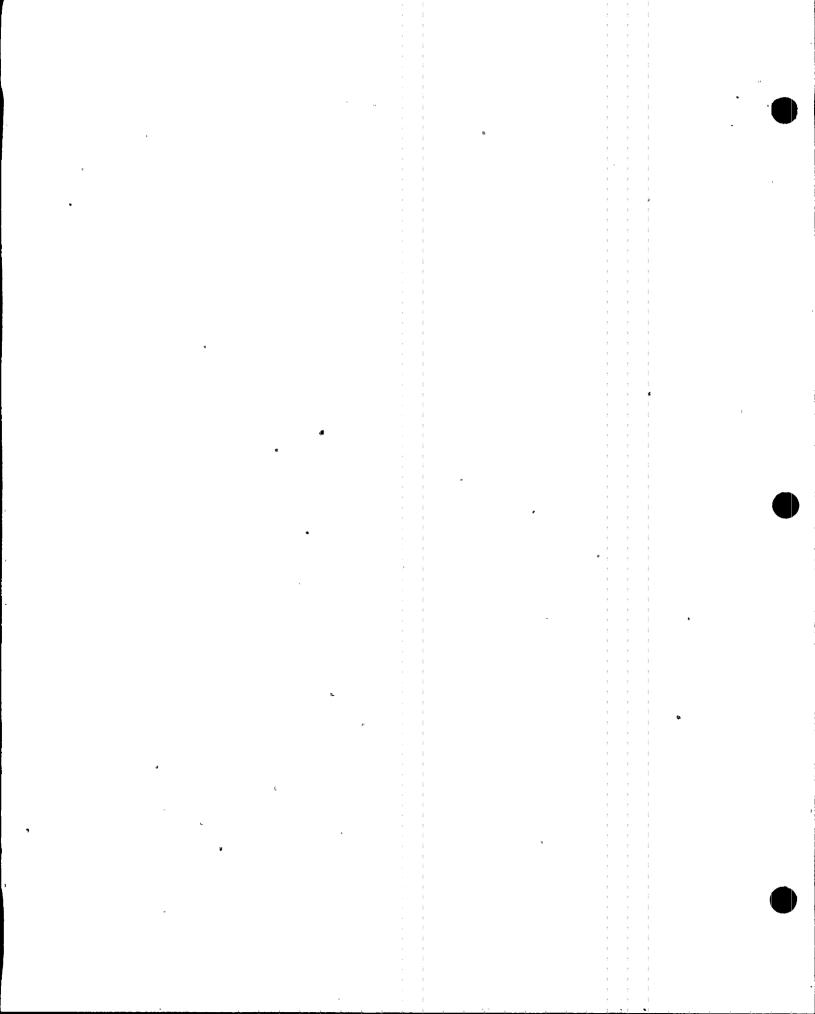
R92-1049

3-1012 8086 09/08/95 P / /

26.7500 P Snubber 3-1012 visual inspection report TP-95-05 revealed the following items described in Deviation Report 003-TP-95-05:

5) Missing lower spacer at rear bracket and there's sufficient room for additional one. At the clamp, one spacer is installed and there isn't sufficient room for an additional one. Portion of the support encompassed in fire barrier was not examined. Manufacturer's data plate is identified as 3-MSHX-16 and it should be -19. Pin and Bearings have light rust. Light rust on adaptor nut stud in pipe clamp, spacer washer damaged. Pipe insulated.

Condition report 95-769 required the unpinning of the oppisite end that was originally unpinned and provide the results to engineering if loose spherical bearings are found. No additional problems were encountered as a result of this inspection. Spherical bearings were cleaned and lubricated under PWO 95024339. Replaced spacer washers on the rear bracket as stated in JPN-PTN-SECS-095-037, rev. 1, step 1.2. Manufacturer's data plate does not affect the operability of the snubber and is not used for reference or identification and is acceptable as is. Insulated pipe does not affect operability of the snubber. The portion of the support that is



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encased under the fire barrier does not require inspection.

REPLACEMENT ITEMS:	H&S	
2 Cotter Pins(clamp)	031-49200-2	
2 Spacer Washer	006-70907-9	
2 Cotter Pins(rear)	031-48600-2	

3-1013 33624 09/17/95 P 09/17/95 P 10.5000 P Snubber 3-1013 visual inspection report TP-95-48 revealed the following items described in Deviation Report 049-TP-95-48:

- 5) No pipe clamp spacer installed.
- 11) Minor paint on indicator tube and end cap of the snubber.

The spacer identified above is not required for a B-P pipe clamp part 2640-35-R/4-3 per BP catalog 77NFR1. The minor paint on the snubber does not affect the operability of the snubber as evidenced by the satisfactory functional test and the condition is acceptable as is. This snubber was tested and passed as part of the initial sample.

## FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	2.07	2.12	17.50
2)	3.14	2.47	17.50
3)	.012	.016	.02
4)	4.96	.54	17.50
REPLACEMEN	IT ITEMS:	M&S	
2 cotter ;	oins	R 91-6050	

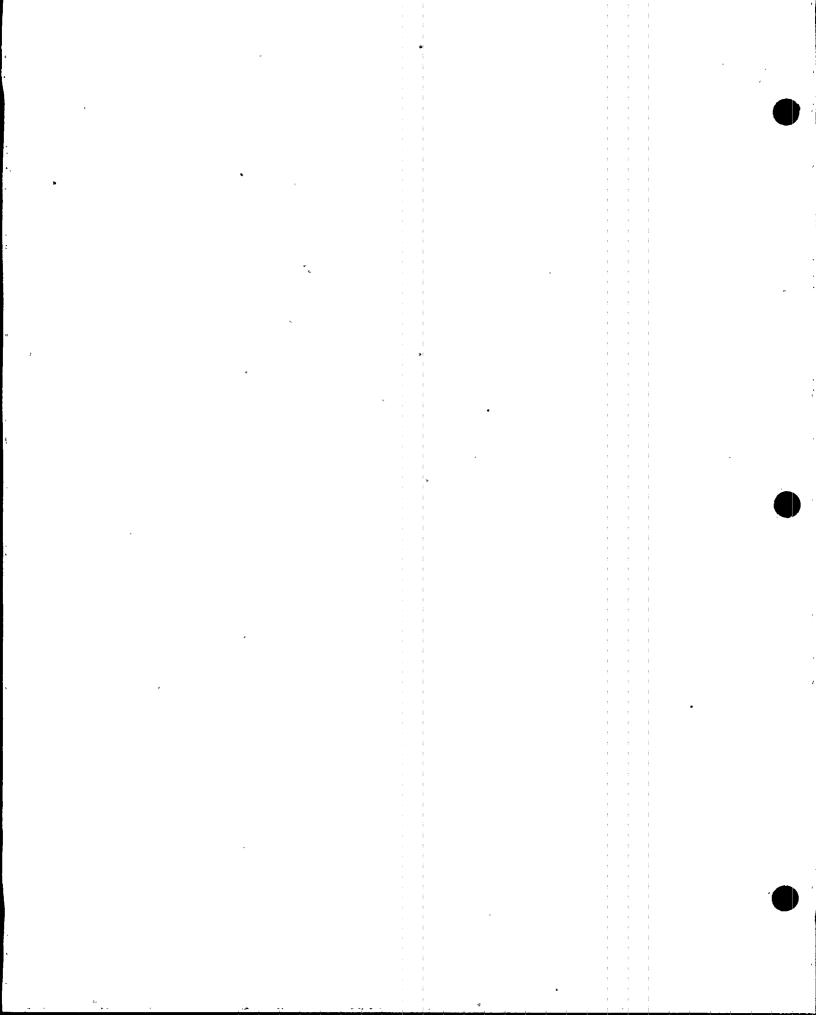
3-1014 1722 09/16/95 P 09/16/95 P 8.7500 P Snubber 3-1014 revealed the following item described in visual examination report TP-95-44:

No snubber ID tag installed.

The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). This snubber was tested and passed as part of the initial sample.

## FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	3.10	3.06	32.50
2)	3.41	3.27	32.50



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3) .014 .018 .02 4) 4.71 1.98 32.50

REPLACEMENT ITEM

M&S

2 cotter pins

R 91-6050

3-1015 18009 09/17/95 P / /

11.7500 P Snubber 3-1015 visual inspection report TP-95-49 revealed the following conditions described in Deviation Report 060-TP-95-49:

11) Light rust at snubber end cap screws and light rust and dirt on snubber.

Spherical bearings were cleaned and lubricated under PWO 95024339. Light rust does not affect the operation of the snubber as evidenced by the satisfactory handstroke.

REPLACEMENT ITEMS:

M&S

2 cotter pins

R91-6050

3-1016 18012 09/17/95 P 09/17/95 P 12.0625 P Snubber 3-1016 visual inspection report TP-95-50 revealed the following items described in Deviation Report 061-TP-95-50:

- 5) No pipe clamp spacer installed.
- 11) Light rust at snubber end cap. Cap screws and light rust and dirt on snubber.

The spacer identified above is not required for a B-P pipe clamp part 2640-1.5-R/4-6 per BP catalog 77NFR1. The light rust and dirt on the snubber does not affect the operability of the snubber as evidenced by the satisfactory functional test and the condition is acceptable as is. This snubber was tested and passed as part of the initial sample.

# FUNCTIONAL TEST DATA

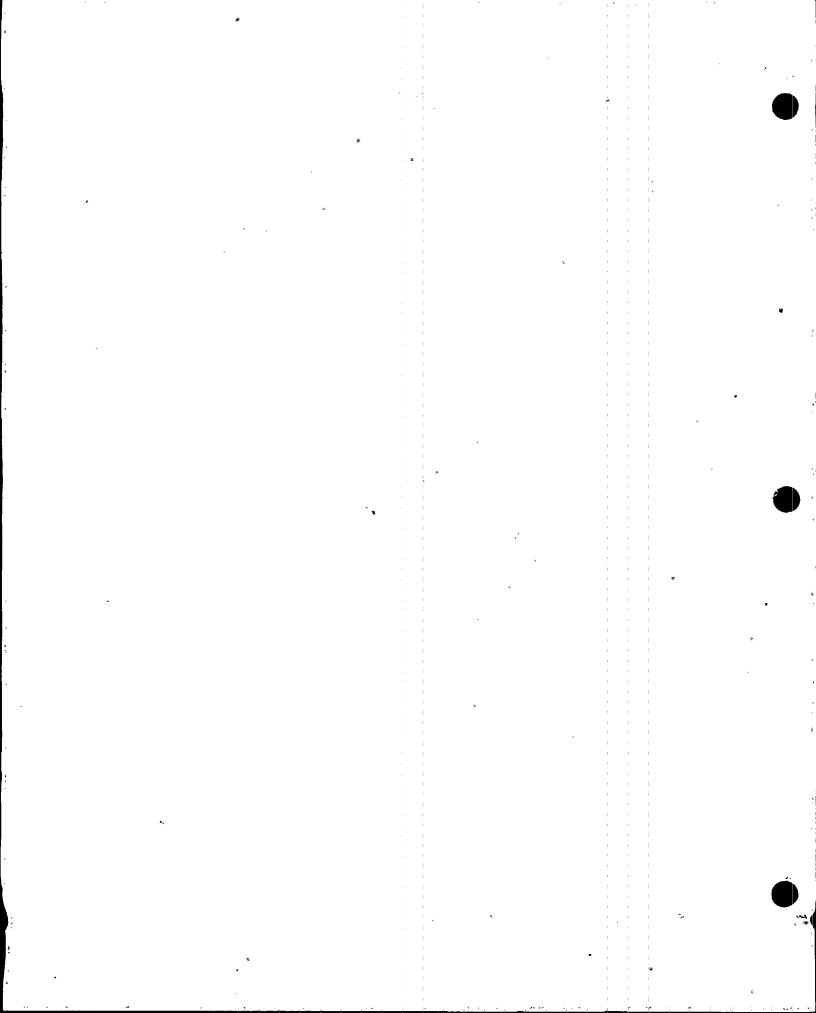
	TENSION	COMPRESSION	CRITERIA
1)	2.07	2.12	17.50
2)	3.14	2.47	17.50
3)	.012	.016	.02
4)	4.96	.54	17.50

REPLACEMENT ITEM

M&S

2 cotter pins

R-91-6050



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conditions described in Deviation Report 050-TP-95-51:

- 5) No pipe clamp spacer installed.
- 11) Light rust of snubber end cap screws and light rust and dirt on snubber.

The spacer identified above is not required for a B-P pipe clamp part 2640-1.5-R/4-6 per BP catalog 77NFR1. Spherical bearings were cleaned and lubricated under PWO 95024339. The light rust and dirt on snubber does not affect the operability of the snubber as evidenced by the satisfactory handstroke.

REPLACEMENT PARTS:

M&S

2 cotter pins

R91-6050

3-1018 18013 09/17/95 P / /

13.3750 P Snubber 3-1018 visual inspection report TP-95-52 revealed the following conditions described in Deviation Report 061-TP-95-52:

5) No pipe clamp spacer installed.

The spacer identified above is not required for a B-P pipe clamp part 2640-1.5-R/4-10 per BP catalog 77NFR1.

REPLACEMENT, ITEMS:

M&S

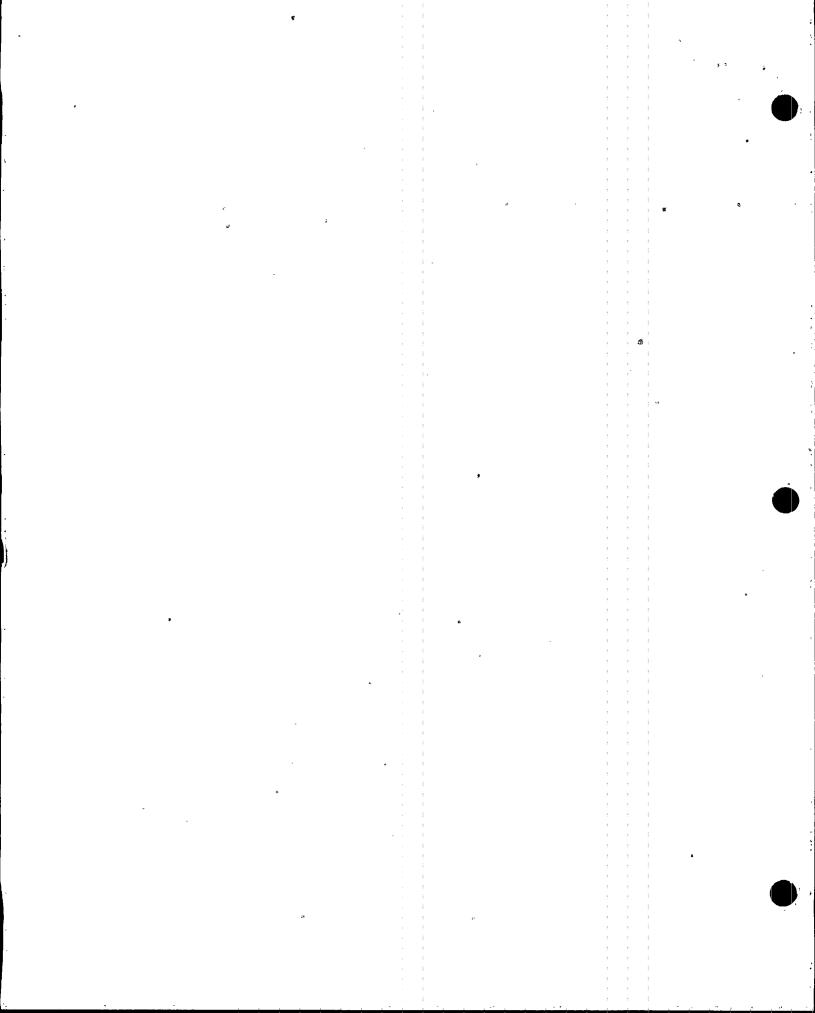
2 cotter pins

R91-6050

3-1019 2889 .09/15/95 P / /

- 17.2500 P Snubber 3-1019 visual inspection report TP-95-38 revealed the following conditions described in Deviation Report 043-TP-95-38:
  - 5) No spacer installed at the pipe clamp bolt adjacent to load pin.
  - 10) The spherical bearings have light rust, paint and dirt.
  - 11) Cap screws are installed at the transition tube assembly and lack full thread engagement by 1/32". The transition tube plate is 1/2" thick and the cap screw diameter is 5/16". All unpainted surfaces have light rust due to the exposure to the weather. Snubber end cap is painted.

The spacer identified above is not required for a B-P pipe clamp part 2640-6-R/4-16 per BP catalog 77NFR1. Condition report 95-581 evaluated the thread engagement for this snubber location and the subject bolting is acceptable as is. Spherical bearing light rust, paint and dirt were cleaned and lubricated under PWO 95024339. The light rust and paint on the snubber and snubber end cap does not affect the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable as is.



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REPLACEMENT ITEMS:

M&S

2 cotter pins

006-70921-4

3-1020 103 09/15/95 P / /

16.8750 P Snubber 3-1020 visual inspection report TP-95-39 revealed the following conditions described in Deviation Report 046-TP-95-39:

- 5) No spacer installed at the pipe clamp bolt adjacent to load pin.
- 10) The spherical bearings have light rust, paint and dirt.
- 11) Cap screws are installed at the transition tube assembly and lack full thread engagement by 1/32". The transition tube plate is 1/2" thick and the cap screw diameter is 5/16". All unpainted surfaces have light rust due to exposure to the weather. The settings markers are barely visible due to weathering.

The spacer identified above is not required for a B-P pipe clamp part 2640-6-R/4-16 per BP catalog 77NFR1. Condition report 95-581 was written previously for the thread engagement and the subject condition is acceptable for use as is. The light rust and paint on the snubber does not affect the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable as is. The hot/cold setting that is no longer visible on the snubber due to weathering can still be obtained by physical measurement and is acceptable as is.

REPLACEMENT ITEMS:

M&S

1 cotter pin-

006-70921-4/R92-1049

1 cotter pin

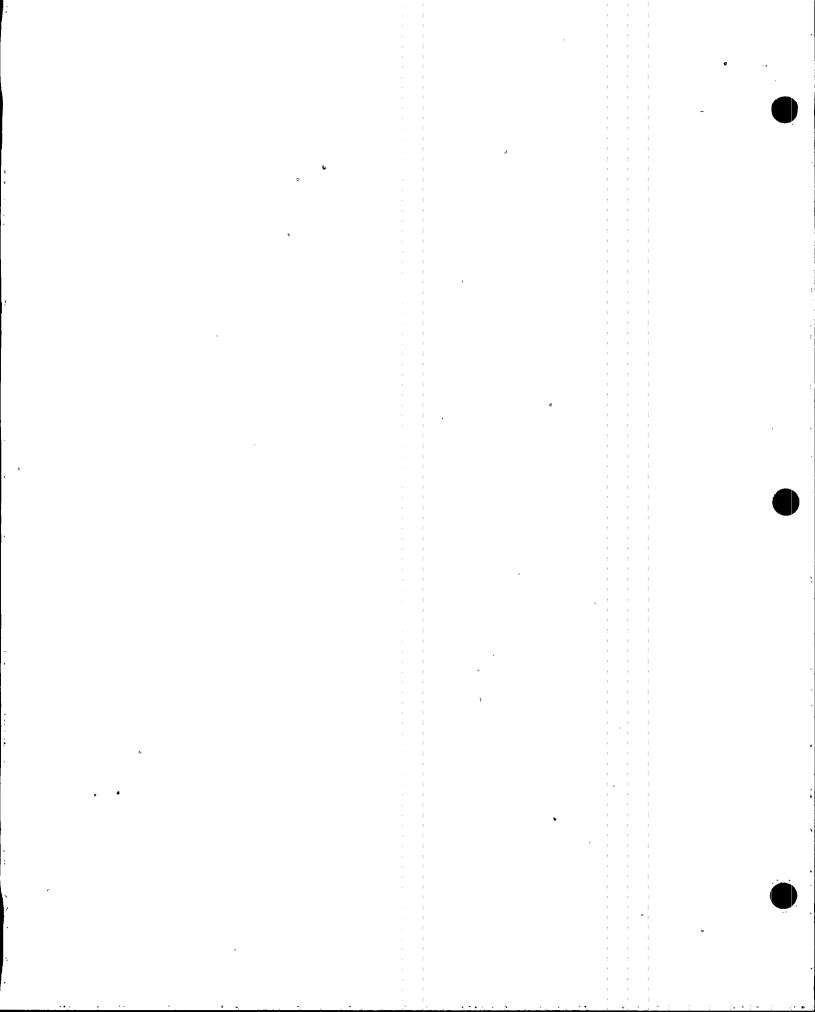
031-46301-1

3-1021 16725 09/17/95 P / /

8.7500 P Snubber 3-1021 visual inspection report TP-95-53 revealed the following conditions described in Deviation Report 052-TP-95-53:

- 5). No pipe clamp spacer installed.
- 10) Light rust and dirt at spherical bearings.
- 11) Due to the location of the snubber it's getting covered with dirt, paint and stains, however it doesn't appear to be effecting it's operation.

Spherical bearings were cleaned and lubricated under PWO 95024339. The spacer identified above is not required for a B-P pipe clamp part 2640-.65-R/4-8 per BP catalog 77NFR1. No action for item 11 as the snubber operation is unaffected by these attributes as evidenced by the satisfactory handstroke.



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REPLACEMENT ITEMS:

M&S

2 cotter pins

R91-6050

13:6250 P Snubber 3-1022 visual inspection report TP-95-35 revealed the following 3-1022 18006 09/14/95 P 09/16/95 items described in Deviation Report 037-TP-95-35:

10) Spherical bearings have paint on them.

Spherical bearings were cleaned and lubricated under PNO 95024339. This snubber was tested and passed as part of the initial sample.

#### FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	10.45	5.30	75.00
2)	12.50	2.24	75.00
3)	.009	.010	.02
4)	12.93	2.59	75.00
DEDI ACEME	UT TITEMS.	MES	

M&S

3-1023 23273 09/14/95

- 12.6250 P Snubber 3-1023 visual inspection report TP-95-36 revealed the following conditions described in Deviation Report 038-TP-95-36:
  - 10) Spherical bearings have paint and 1 spacer is installed backwards.
  - 11) "E" clip damaged during pin removal.

Spherical bearings were cleaned and lubricated under PWO 95024339. The load pin with the damaged "E" clip was drilled per JPN-PTP-SECS-95-037, rev. 1, step 3.2, under PWO 95025170. The backwards spacer washer was reinstalled by the vendor in the correct position.

REPLACEMENT ITEMS:

M&S

3 cotter pins

R91-6050: .

- 3-1024 17427 .09/16/95 P 09/16/95 17.1250 P Snubber 3-1024 visual inspection report TP-95-45 revealed the following items described in Deviation Report 048-TP-95-45:
  - 10) Spherical bearings have light rust and paint.
  - 11) Snubber end cap painted. Cap screws installed at extension piece assembly in place of bolts.

No snubber ID tag installed.

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The spherical bearings were cleaned and lubricated under PWO 95024339. The snubber ID tag will be ordered by the ISI Group and installed during the next inspection (TS-95-10-001). The painted end cap is acceptable as it does not affect the operation of the snubber as evidenced by the satisfactory functional test. Cap screws at the extension piece (item 2) entails the complete assembly from pin to pin as shown in BP catalog for the 2540 snubber assembly, therefore the condition is acceptable as is. This snubber was tested and passed as part of the initial sample.

## FUNCTIONAL TEST DATA

	TENSION .	COMPRESSION	CRITERIA
1)	.15.44	15.94	300.00
2)	' 19.88	18.36 <sup>-</sup>	300.00
<b>3)</b> .	.012	.013	•05.
4)	17.73	18.82	300.00

REPLACEMENT ITEM

M&S

2 cotter pins

031-46301-1

3-1025 100 09/16/95 P / /

17.0000 P Snubber 3-1025 visual inspection report TP-95-47 revealed the following conditions described in Deviation Report 053-TP-95-47:

'11) End cap painted. No snubber ID tag installed.

The painted end cap does not affect the operation of the snubber and is acceptable as evidenced by the satisfactory handstroke. Spherical bearings were cleaned and lubricated under PWO 95024339. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001).

REPLACEMENT ITEMS:

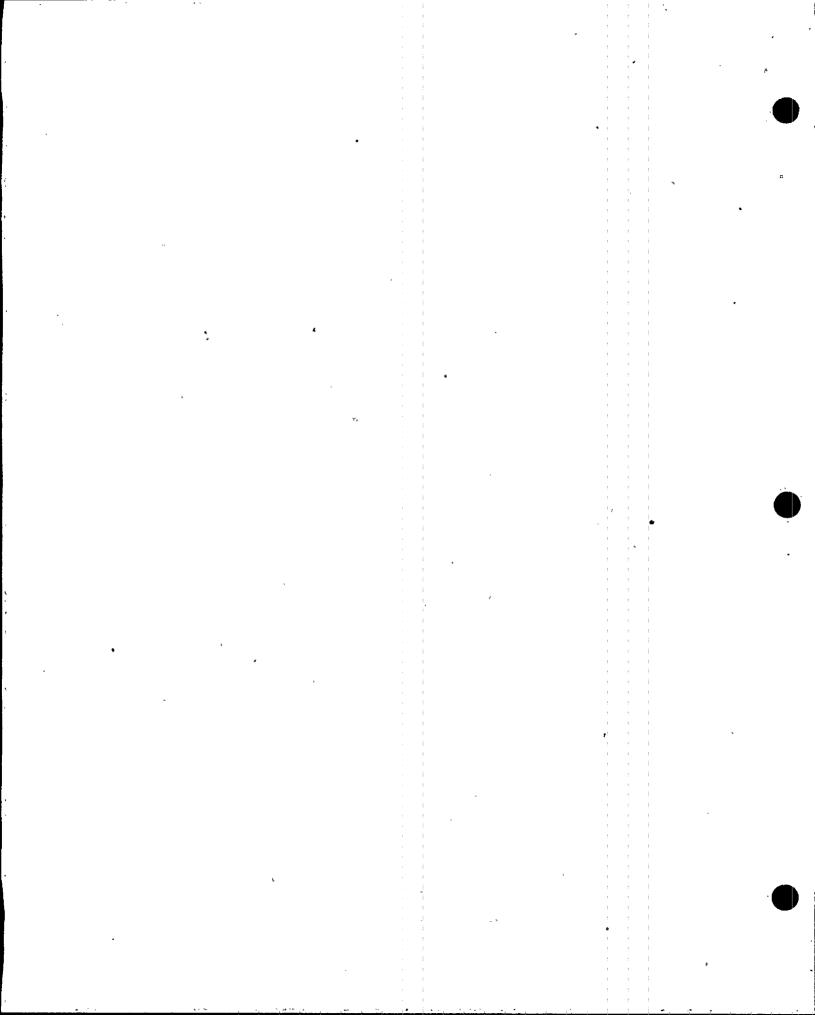
M&S

1 cotter pin

R91-6050

3-1026 12394 09/17/95 P 09/17/95 P 18:8750 P Snubber 3-1026 visual inspection report TP-95-54 identified the following items described in Deviation Report 057-TP-95-54:

- 1,11) The clamp has been modified and the drawing does not indicate the changes.
- 5) The tie bars shown on the drawings (Sheet 20B & 20C) at the added ears to the clamp do not exist and are not indicated on the bill of materials.
- 11) The extension piece assembly bolts (item 11) lack full engagement by 1/32". Spacers welded in place.



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Visual and Functional Summary

Removed extension bolts to transport snubber to the trailer. This snubber was a scheduled rebuild. Overall condition of the snubber was good and the post rebuild test passed. Condition report 95-868 was written to evaluate the drawing discrepancies for items 1, 5-811. The final disposition of CR 95-868 revealed all the discrepancies are acceptable as is with PMAI 9509123 issued to engineering to update the drawings. Vendor installed safety wire on transition tube assembly after torquing. This snubber was a scheduled rebuild. Overall condition of the snubber was good and it passed the functional test after being rebuilt.

## FUNCTIONAL TEST DATA

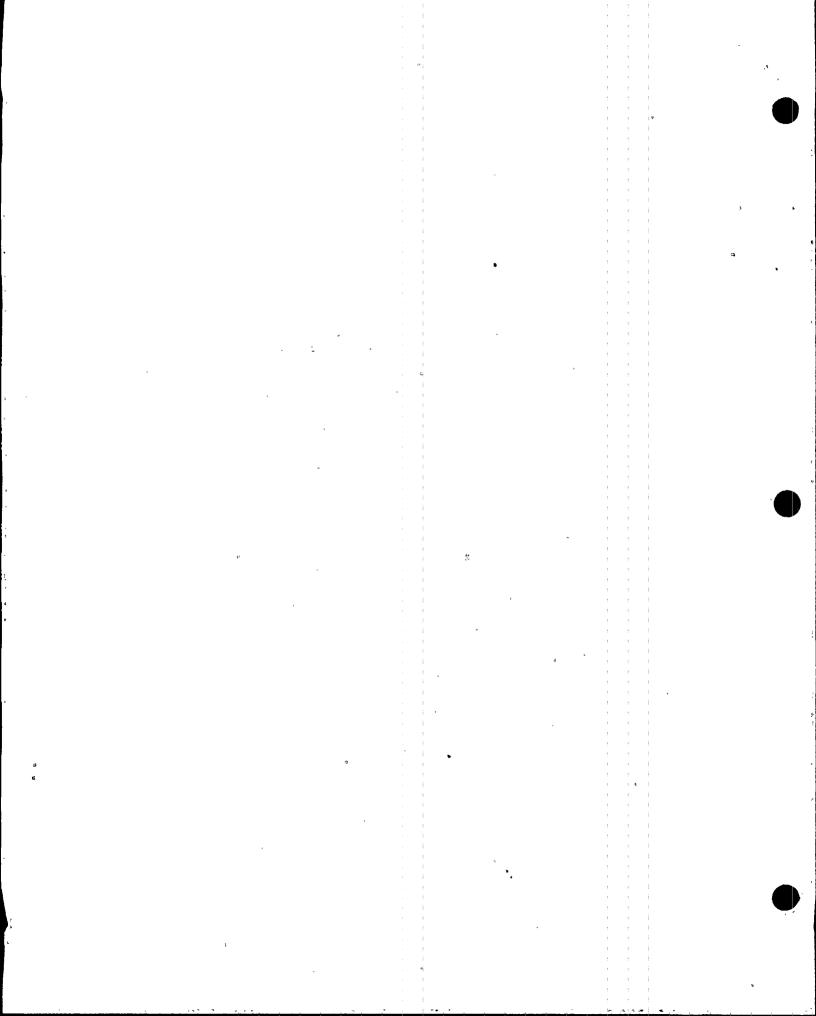
	TENSION	COMPRESSION	CRITERIA		
1)	38.86	56.21	750.00		
2)	24.13	63.30	750.00		
3)	.014	.012	.02		
4)	31.22	65.75	750.00		
REPLACE	HENT ITEM	M&S			
2 cotte	r pins	006-70921	-4/R92-1049		
1-clutcl	n spring	006-74271	006-74271-8/R90-4394		
1 capsta	1 capstan spring		006-74277-7/R90-0766		
1 retair	ning ring	006-74273	-4/R90-4394		
1 retair	ning ring.	006-74265	-3/R90-1321		
1 retai:	ning ring	006-74267	-0/R93-4312		
2 washer	rs	006-74272	-6/R93-4361		
1 washe	r	006-74274	-2/R93-4361		
3 filis	ter head screws	006-74262	-9/R90-1627		
3 washe	rs	006-74263	-7/0015716-3		
1 washe	r	006-74264	-6/R93-4361		
2 keeper	r rings	006-74276	-9/R93-4375		

3-1027 16237 09/17/95 P / /

20.8750 P Snubber 3-1027 visual inspection report TP-95-55 revealed the following conditions described in Deviation Report 055-TP-95-55:

- 1,11) The clamp has been modified and the drawing does not indicate the changes.
- 5) No clamp spacer installed.
- 11) The extension piece assembly bolts (item #11) lack full engagement by 1/32". Spherical bearing spacers welded in place.

Condition report 95-870 was written to address the modified pipe clamp and lack of thread engagement. Final engineering evaluation showed all items acceptable for use as is and PMAI 9509203 issued to engineering to update



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Visual and Functional Summary

the drawing.

REPLACEMENT ITEMS:

H&S

1 cotter pin

006-70821-4/R92-1049

3-1028 11135 09/16/95 P / /

19.5000 P Snubber 3-1028 visual inspection report TP-95-56 revealed the following conditions described in Deviation Report 059-TP-95-56:

- 1,11) The clamp has been modified and the drawing does not indicate the changes.
- 10) Light rust, dirt and paint on spherical bearings.
- 11) The extension piece assembly bolts (item #13) lack full thread engagement by 1/32" and the plate thickness is 5/8" thick. An Ashcroft long stem thermometer was found in between the ears of the rear bracket. The thermometer was removed and no damage was found. Spherical bearings spacers welded in place. No snubber ID tag.

Condition report 95-869 was written to address the drawing discrepancies, items 1 & 11. Final engineering disposition of CR 95-869 was that all conditions were acceptable as is and PMAI 9509124 issued to engineering to update the drawing. Spherical bearings were cleaned and lubricated under PWO 95024339. A walkdown was performed by engineering and the missing tag reported by the inspector was in place and hanging on the snubber. The thread engagement was previously identified and accepted for use as is by condition report 95-581.

REPLACEMENT ITEMS:

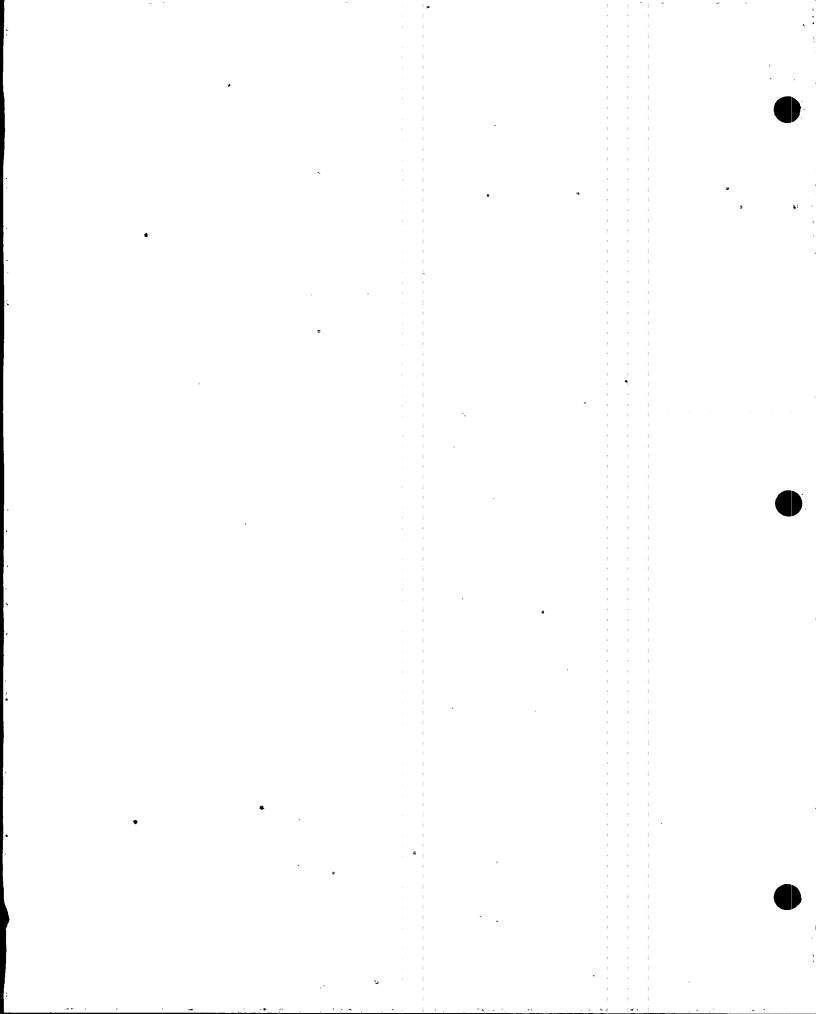
M&S

1 cotter pin

006-70921-4/R92-1049

3-1029 11330 09/16/95 P / /

- 21.8750 P Snubber 3-1029 visual inspection report TP-95-57 revealed the following conditions described in Deviation Report 056-TP-95-57:
  - 1,11) The clamp has been modified and the drawing does not indicate the changes.
  - 5) No clamp spacer installed and note 4 on the drawing indicates that a 1" diameter stud with 2 hex and 2 locknuts may be substituted and it was found that a 1" diameter all thread rod and only 2 hex nuts were installed.
  - 11) The extension piece assembly was found not to match the configuration shown on the drawing. Only one item # 10 with no bolt holes is installed and welded. The extension piece assembly bolts item # 13 lack full thread engagement by 1/32". Spherical bearing spacers welded in place. No snubber ID tag.



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Visual and Functional Summary

Condition report 95-866 was written to address the drawing discrepancies, items 1, 5 & 11. Final engineering disposition of CR 95-866 showed all items are acceptable as with PMAI 9509122 going to engineering to update the drawing. An walkdown was performed by engineering and the missing ID tag reported by the inspector was in place and hanging on the snubber.

REPLACEMENT ITEMS:

M&S

1 cotter pin'

006-70921-4/R92-1044

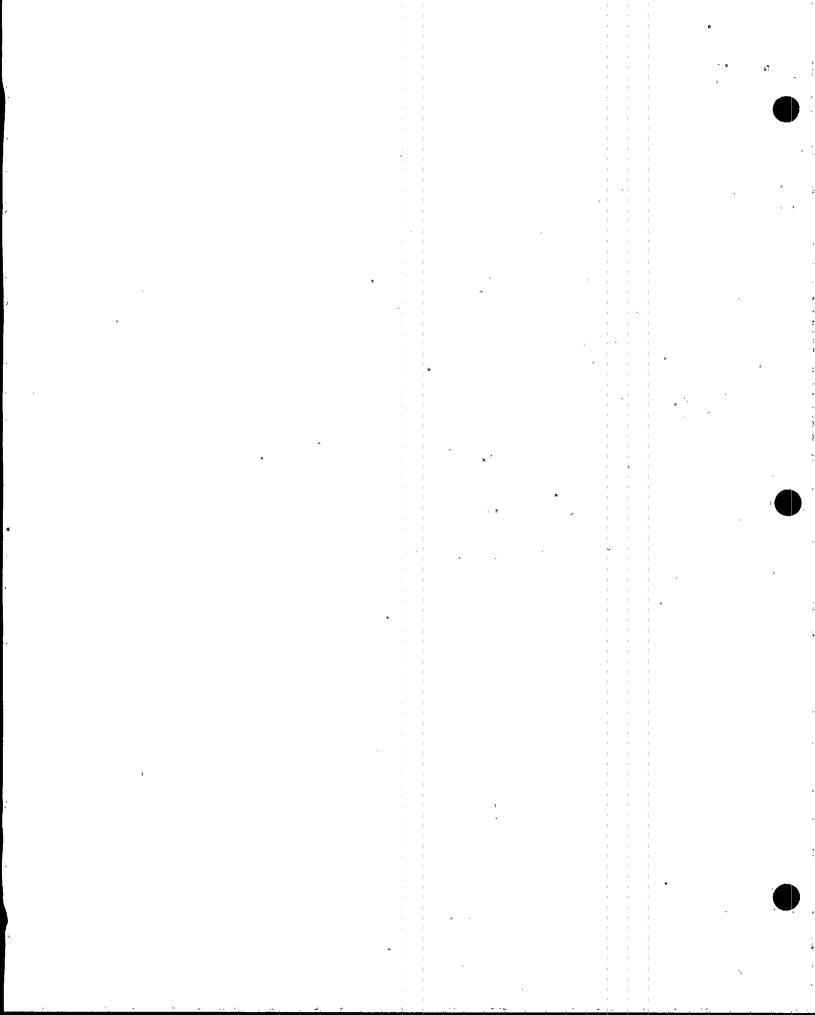
3-1030 11121 09/15/95 P 09/16/95 P 21.0000 P Snubber 3-1030 visual inspection report TP-95-37 revealed the following items described in Deviation Report 040-TP-95-037:

- 5) No spacer installed at the pipe clamp bolt adjacent to snubber load pin.
- 10) The spherical bearings have light rust, paint and dirt.
- 11) The pipe clamp bolt adjacent to the snubber load pin lacks full thread engagement into the nut, bolt is flush and 1 full thread beyond the face of the nut is required. The transition tube assembly bolts lack full engagement by 1/32". The transition tube plate is 5/8" thick. The bolt diameter is 1/2" and bolt identification could not be verified due to paint. The snubber ID tag is installed on the support cyclinder of the snubber which may interfere with the operation of the snubber.

The spacer identified above is not required for a B-P pipe clamp part EA3 per BP catalog 66R. Light rust and paint were removed and the spherical bearings were lubricated under PWO 95024339. The pipe clamp bolt thread engagement is acceptable per JPN-PTN-91-0684. The transition tube assembly bolts are acceptable as is per SPEC-M-004. The snubber tag has been moved by the ISI group to a position that will not impede snubber operation. This snubber was tested and passed as part of the initial sample.

#### FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	13.04	42.27	750.00
2)	24.64	59.30	750.00
3)	.014	.012	.02
4)	35.07	47.30	750.00
REPLACE	MENT ITEMS:	M&S	
2 cotte	r pins.	006-70921-	4



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conditions described in Deviation Report 031-TP-95-32:

- 3,5,11) The pipe clamp spacer is loose at the clamp bolt (~1/8" short) and the distance between the ears at that location is 1" and the distance at athe load pin is 1 1/8". The 3/4" diameter bolt at the spacer also has two half nuts (3/8" height) installed and the second nut lacks 5/32" for full engagement. If the clamp and bolting are adjusted to correct the concerns it appears that the snubber end cap will bind in the clamp ears.
- 11) A possible clearance violation may exist at the extension piece end cap and an adjacent support. Note 4 on the support drawing indicates that no spacers are installed and 1 spacer which is damaged is installed.
- 10) Light rust and dirt at the spherical bearings.
- 5). Clamp moved when the pin was removed.

Condition Report 95-829 was written to address items 3, 5 & 11. Projects implemented the disposition of CR 95-829 under PWO 95025026, by replacing the clamp bolt and notching the adjacent insulation. PMAI 9510002 was issued to engineering to update the snubber drawing. Spherical bearings were cleaned and lubricated under PWO 95024339. This snubber was tested and passed as part of the initial sample.

## FUNCTIONAL TEST DATA

300.00
300.00
.02
300.00

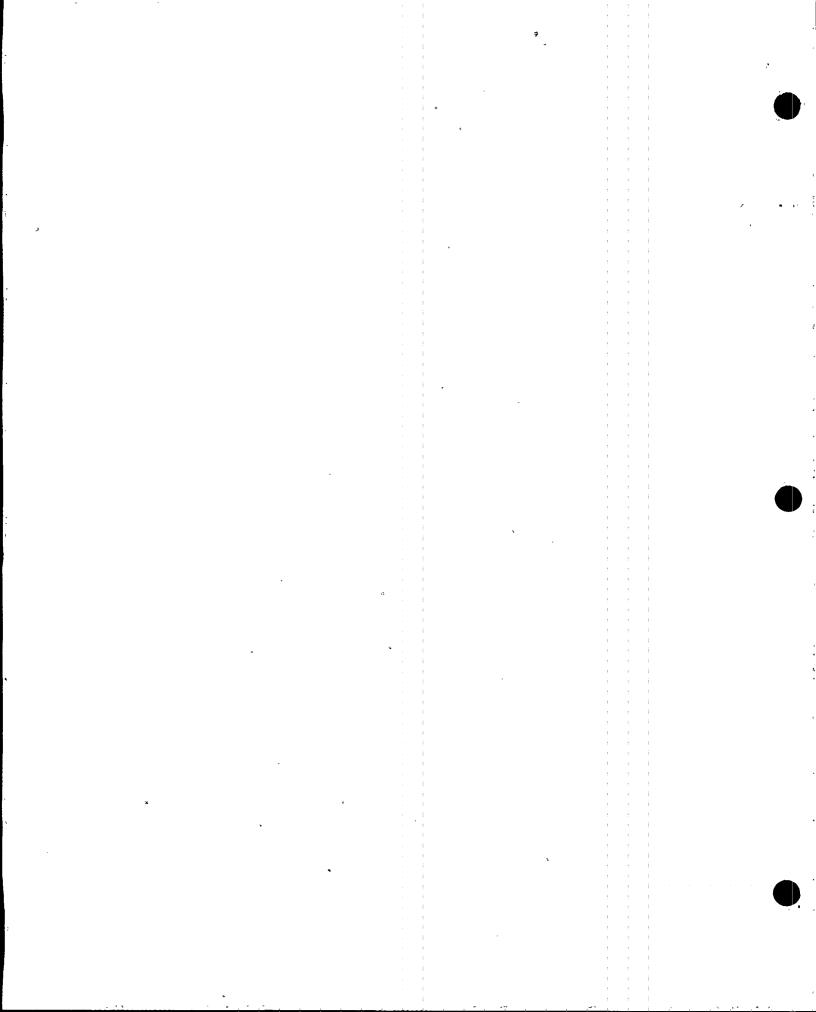
## REPLACEMENT ITEMS:

M&S

2 cotter pins 031-46301-1 1 bolt 0197843-1/000037857

3-1039 16241 09/13/95 P 09/16/95 P 20.0625 P Snubber 3-1039 visual inspection report TP-95-31 revealed the following conditions described in Deviation Report 029-TP-95-31:

- 1,5) The 4 spacers installed at the pipe clamp are loose (1/8" short). The dimension between the ears of the clamp are 1 1/2 +/- 1/16". The clamp is tight to pipe.
- 11) The transition tube assembly bolts lack full engagement by  $3/16^{\circ}$ , the transition tube plate is  $3/4^{\circ}$  thick. The bolt dia is  $1/2^{\circ}$  and the bolt is identified with GR l7C LID.
- 5) The pipe clamp rotated about 1/4" when the pin was removed. The



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spacer washers are tight in the clamp when the snubber is installed.

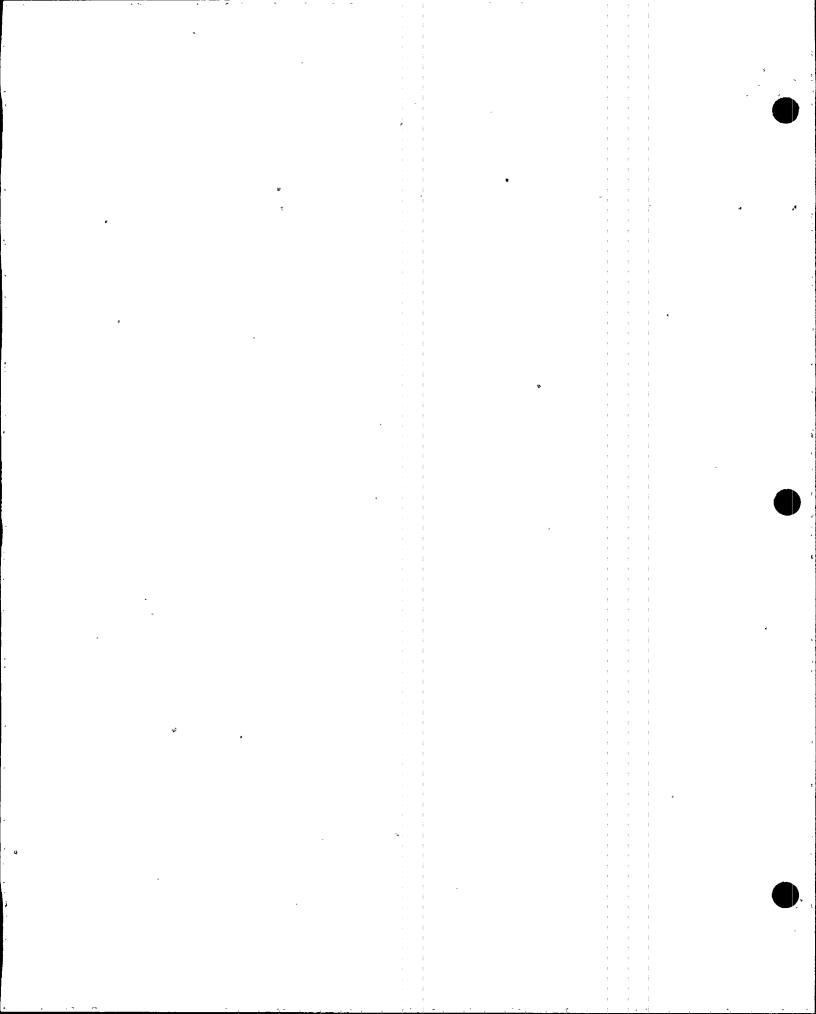
In accordance with pacific Scientific document No. 141 Page 27, if clamp ears are parallel and nuts are tight condition is acceptable as-is. Condition report 95-581 previously written addressed lack of full thread engagement and the condition is acceptable as is. Clamp was rotated back into place upon snubber reinstallation. The snubber was functionally tested and passed, therefore meeting the Technical Specifications for operability. This snubber was tested and passed as part of the initial sample.

### FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
.1)	45.58	.43.84	750.00
2)	61.00	67.96	750.00
3)	.013	.009	.02
4)	72.08	54.75	750.00
REPLACENE	NT ITEMS:	H&S	
2 Cotters Pins		031-46500	-5

- 3-1040 16239 09/13/95 P 09/16/95 P 20.5000 P Snubber 3-1040 visual inspection report TP-95-30 revealed the following conditions described in Deviation Report 030-TP-95-30:
  - 1,5) The 4 spacers installed at the pipe clamp are loose ("1/8" short). The dimension between the ears of the calmp is 1 1/2" +-1/16". The clamp is tight to the pipe.
  - 11) The transition tube assembly bolts lack full thread engagement by 3/16". The transition tube plate is 3/4" thick. The bolt diameter is 1/2" and the bolt is identified as L5.
  - 5) The pipe clamp moved about 1/4" when the pin was removed. If the clamp is tightened, the spacer washers are too thick to install the snubber.

Items 1 & 5, in accordance with Pacific Scientific Document 141, page 27, step F, "If clamp ears are parallel, condition is acceptable as is". Condition Report 95-581 addressed thread engagement as acceptable as is for this tag location. For item 5, for spacer washers, Engineering evaluation JPN-PIP-SECS-95-037, step 1.2, "if there is insufficient clearance to install them, this condition is acceptable as is". This snubber was a scheduled rebuild done to vendor manual PS 193 Rev. 5. Overall condition of the snubber was good, except for load marks on the ball screw shaft in compression where the thrust bearing rides. Grease was dry inside snubber. After rebuild the snubber passed the functional test.



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## FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA	
1)	25.06	60.72	750.00	
2)	22.80	313.86	750.00	
3)	.014	.009	.02	
4)	50.53	69.64	750.00	
REPLACEME	NT ITEMS:	M&S		
2 cotter	pins	031-46500-5		
1 clutch	spring	006-74271-8/R90-4394		
1 capstan	spring	006-74277-7/R90-0766 006-74273-4/R90-4394		
1 retaini	ng ring			
1 retaini	1 retaining ring. 006-742		006-74265-3/R90-1321 006-74267-0/R93-4312	
1 retaini				
2 washers	}	006-74272-6/R	93-4361	
1 washer		006-74274-2/R	93-4361	
3 filiste	r head screws	006-74262-9/R	90-1627	
3 washers	<b>.</b>	006-74263-7/0	015716-3	
1 washer		006-74269-6/R	93-4361	
2 keeper	rings	006-74276-9/R93-4375		
1 ball so	<del>-</del>	006-74287-4/R90-1176		

3-1041 16234 09/12/95 P 09/16/95 P 19.6250 P Snubber 3-1041 visual inspection report TP-95-23 revealed the following conditions described in Deviation Report 026-TP-95-23:

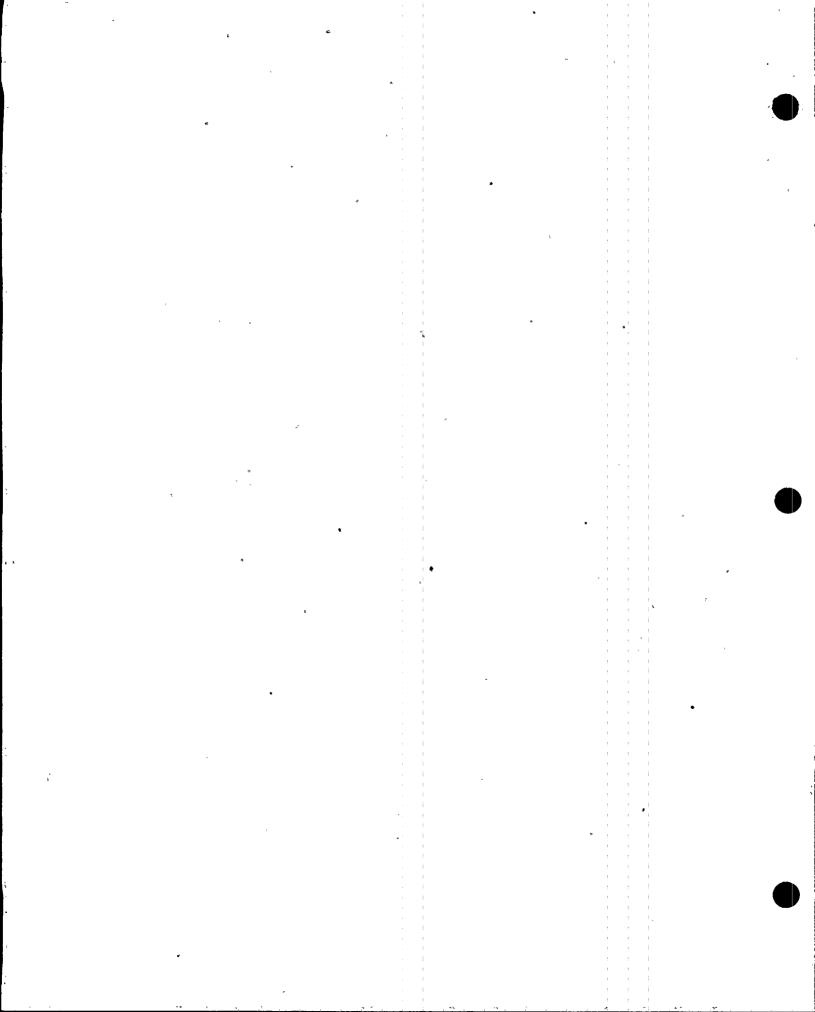
10) Light rust and dirt at bearings.

11) The end paddle at the extension piece end lacks full thread engagement into turnbuckle. Adjustment can be made and the "L" dimension will still be within the acceptable range. Spacers are tack welded. No snubber ID tag.

Spherical bearings were cleaned and lubricated under PWO 95024339. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Condition report 95-797 was written to evaluate the inadequate thread engagement. The disposition of condition report 95-797 will be implemented under PWO 95025850. The snubber was adjusted to the correct "L" dimension and the as left performed on 09/29/95. PMAI 9510016 was issued to engineering to update the drawing to reflect the field conditions. This snubber was tested and passed as part of the initial sample.

FUNCTIONAL TEST DATA

TENSION COMPRESSION CRITERIA



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.1)	16.85	98.10	750.00
2)	44.61	109.19	750.00
3)	.013	.009	.02
4)	53.61	66.18	750.00

REPLACEMENT ITEMS:

M&S

2 cotter pins

031-46301-1

3-1042 12365 09/12/95 P 09/16/95 P 19.7500 P Snubber 3-1042 visual inspection report TP-95-24 revealed the following conditions described in Deviation Report 027-TP-95-24:

1,11) The support drawing indicates that the "LACC" shall be between 1' 9 1/4" to 1' 10 5/8" and the as found dimension is 1' 7 3/4". Note: Sheet 5B of the support drawing indicates an "A" dimension of 20 1/4". The snubber end cap face is rubbing against the ear of the rear bracket due to limited clearance.

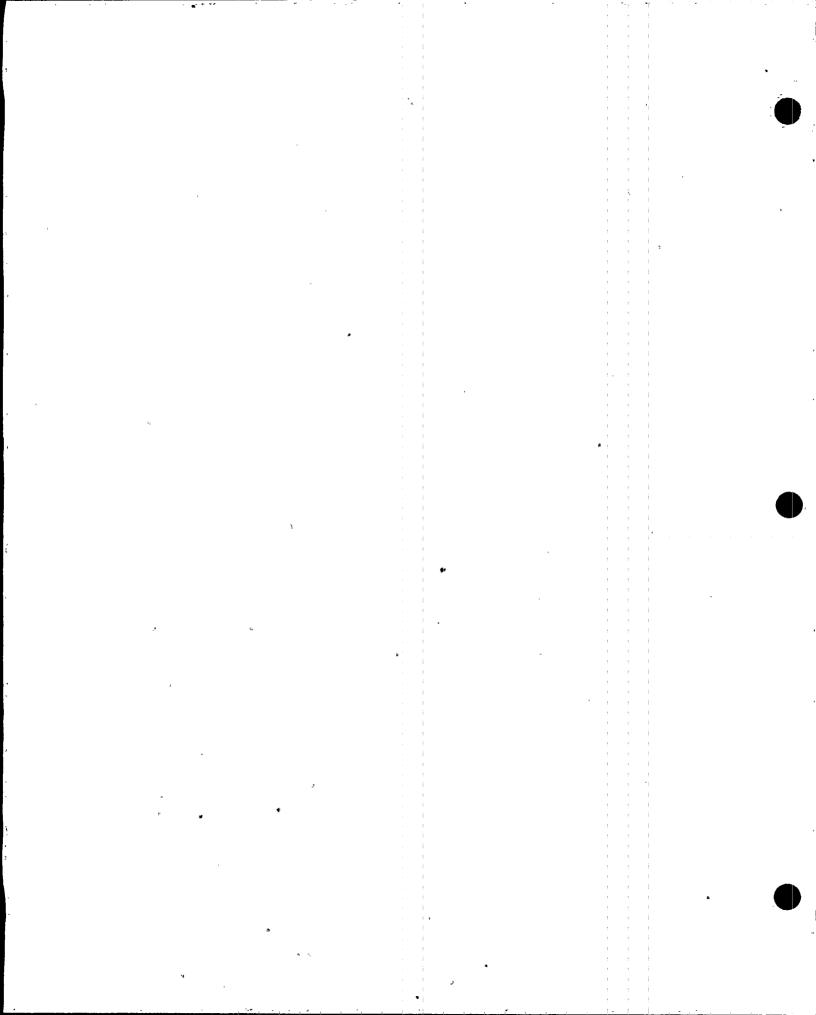
10) Light rust and dirt at bearings.

Spacers tack welded in place. No snubber ID tag:

Condition Report 95-803 was written to address items 1, 11 and the welded spacer washers. The disposition of condition report 95-803 will be implemented by projects under PWO 95025850. Spherical bearings were cleaned and lubricated under PWO 95024339. The "L" dimension was adjusted by the vendor to 20.625". The as left of this snubber was performed on 09/27/95. PMAI 9510015 was issued to engineering to update the drawing to reflect the field condition. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). This snubber was a scheduled rebuild and passed the functional test after being rebuilt. Overall condition of snubber was good. Grease was a little thick.

## FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA	
1)	70.26	92.85	750.00	
2)	80.95	103.70	750.00	
3)	.009	.005.	.02	
4)	105.29	155.29	750:00 *	
REPLACEME	NT ITEM:	M&S		
2 cotter	pins	031-46500-5		
1 clutch spring		006-74271-8/R90-4394		
1 retaining ring		006-74277-7/R90-0766		
1 retaining ring		006-74273-4/R90-4394		



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1:retaining ring	006-74267-0/R93-1321
2 washers	:006-74272-6/R93-4361
1 <sup>.</sup> washer	006-74274-2/R93-4361
3 filister head screws,	006-74262-9/R90-1627
3 washers	006-74263-7/0015716-3
1 washer	006-74269-6/R93-4361
2 keeper rings	006-74276-9/R93-4375

3-1049 16245 09/15/95 P 09/16/95 P 20.5000 P Snubber 3-1049 visual inspection report TP-95-43 revealed the following items described in Deviation Report 041-TP-95-43:

40) Spherical bearings have light rust and dirt.

Spherical bearings were cleaned and lubricated under PWO 95024339. This snubber was scheduled for rebuild. Overall condition of the snubber was good. This snubber was a scheduled rebuild and passed the functional testafter being rebuilt.

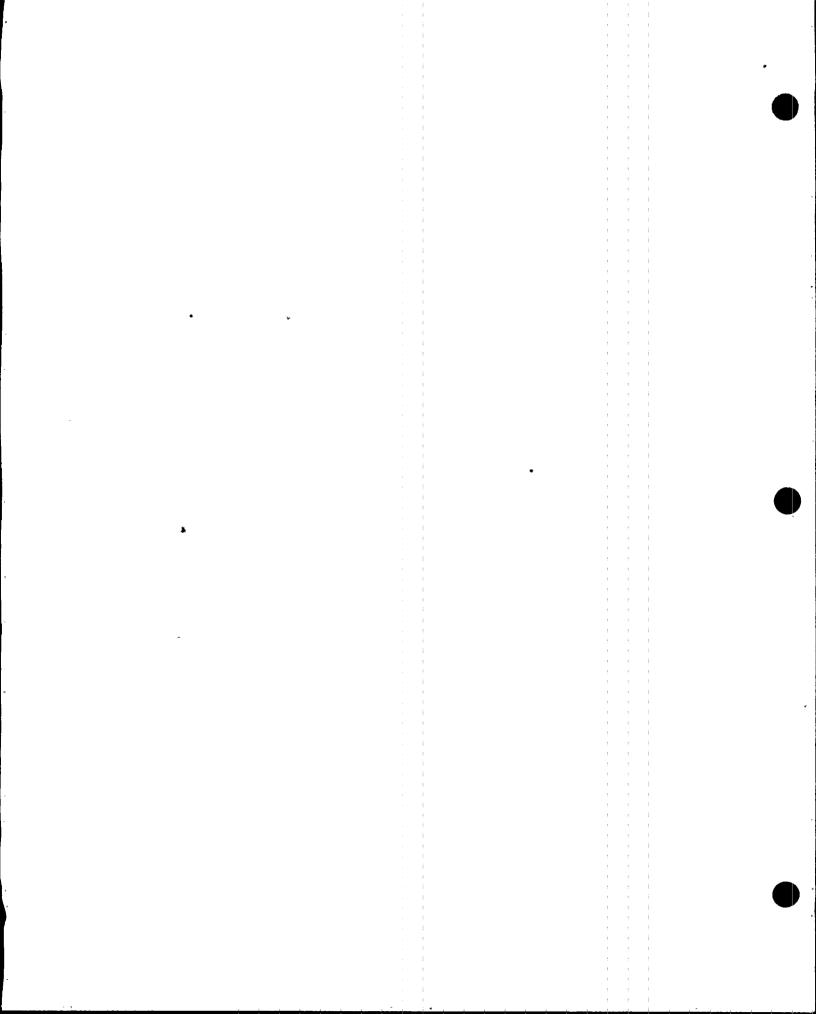
#### FUNCTIONL TEST DATA.

	TENSION	COMPRESSION	CRITERIA	4
<b>'1</b> )	56.95	54.74	300.00	
2)	81.02	61.20	300.00	
3)	.011	:009	.02	
4)	85.78	64.80	300.00	~
REPLACEMENT	ITEMS:	M&S		
2 cotter pi	ns	031-46301-1		
1 clutch sp	cing	006-74271-8/R	90-4394	
1 capstan s	pring	006-74277-7/R		
1 retaining	ring	006-74273-4/R	90-4394	
1 retaining	ring	006-74265-3/R	90-1321	
1 retaining	ring.	006-74267-0/R	93-4312	
2 washers	•	006-74272-6/R	93-4361	
1 washer		006-74274-2/R	93-4361	
3 filister	head screws	006-74262-9/R	90-1627	
3 washers	A+	006-74263-7/0	015716-3	
1 washer		006-74269-6/R	93-4361	
2 keeper ri	ngs	006-74276-9/R	93-4375	

3-1053 2462 09/14/95 P 09/16/95 P 20.5000 P Snubber 3-1053 visual inspection report TP-95-33 revealed the following items described in Deviation Report 036-TP-95-33:

10) Light rust at spherical bearings, unable to rotate, need lubrication, pipe insulated, no ID tag.

Spherical bearings were cleaned and lubricated under PNO 95024339. The



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insulated pipe has no effect on the operability of the snubber. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). This snubber was a scheduled rebuild and passed the functional test after being rebuilt. Overall condition of the snubber was good. Grease was a little thick and somewhat dry. Capstan spring, keeper rings and clutch spring had light wear marks.

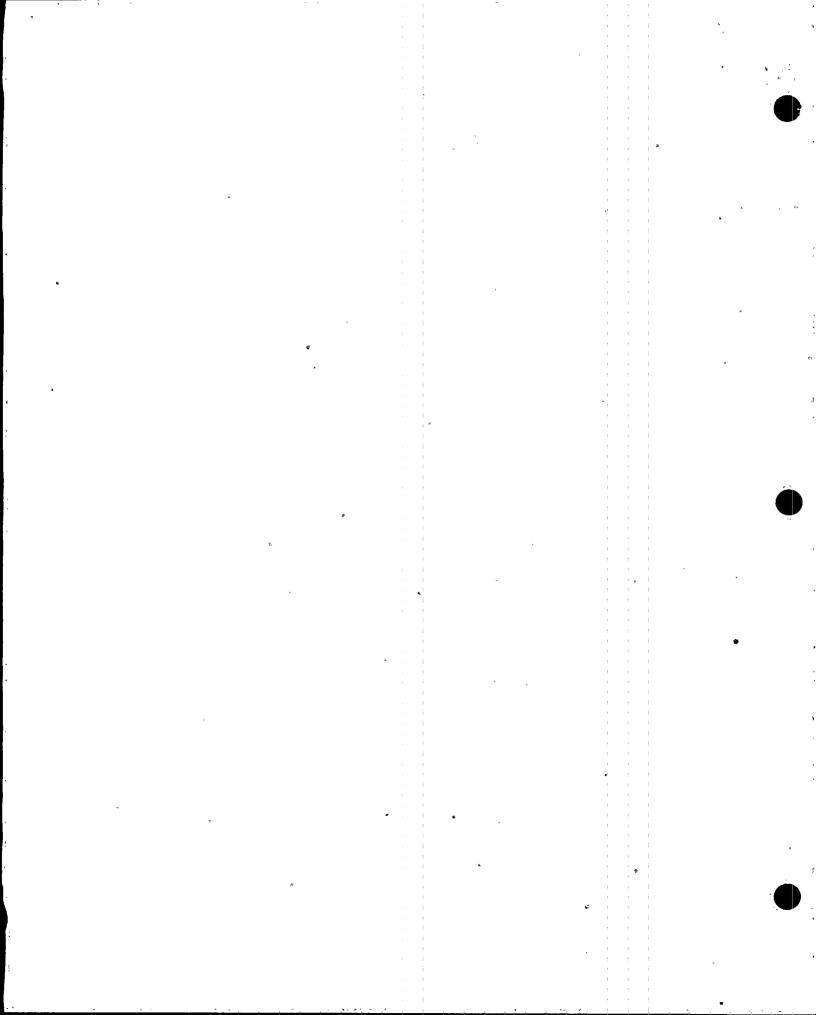
#### FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA	
1)	46.32	65.52	750.00	
2)	29.99	72.85	750.00	
3)	.013	.011	.02	
4)	33.87	68.85	750.00	
REPLACEM	ENT: ITEM	M&S		
2 cotter	pins	031-46301-1		
1 clutch	spring	006-74271-8/R90-4394		
1 capsta	n spring	006-74277-7/R90-0766		
1 retaining ring		006-74273-4/R90-4394		
1 retaining ring		006-74265-3/R90-1321		
1 retaining ring		006-74267-0/R93-4312		
2 washers		006-74272-6/R93-4361		
1 washer		006-74274-2/R93-4361		
3 filister head screws		006-74262-9/R90-1627		
3 washers		006-74263-7/0015716-3		
1 .washer		006-74269-6/R93-4361		
2 keeper rings		006-74276-9/R93-4375		

3-1054 16248 09/14/95 P 09/16/95 P 20.2500 P Snubber 3-1054 visual inspection report TP-95-34 revealed the following items described in Deviation Report035-TP-95-34:

- 1,11) The rear bracket attached to item 7 indicated on the support drawing has been modified and the drawing does not indicate the changes.
- 10) Spherical bearings have light rust and dirt.
- 11) The transition tube assembly bolts lack full thread engagement by 1/32". The transition tube plate is 5/8" thick, the bolt diameter is 1/2" and identified with "L5". The spacers are welded in place. There is no snubber ID tag.

Condition Report 95-834 was written to address the drawing descrepancies, items 1 & 11. Final disposition of CR 95-834 found all items to be acceptable as is and the drawing will be revised and tracked via PMAI 9509113 to reflect the changes. The light rust and dirt have been removed from the spherical bearings and lubricated in accordance with PWO



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95024339. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). This snubber was functionally tested as part of the post rebuild test program and passed.

#### FUNCTIONAL TEST DATA

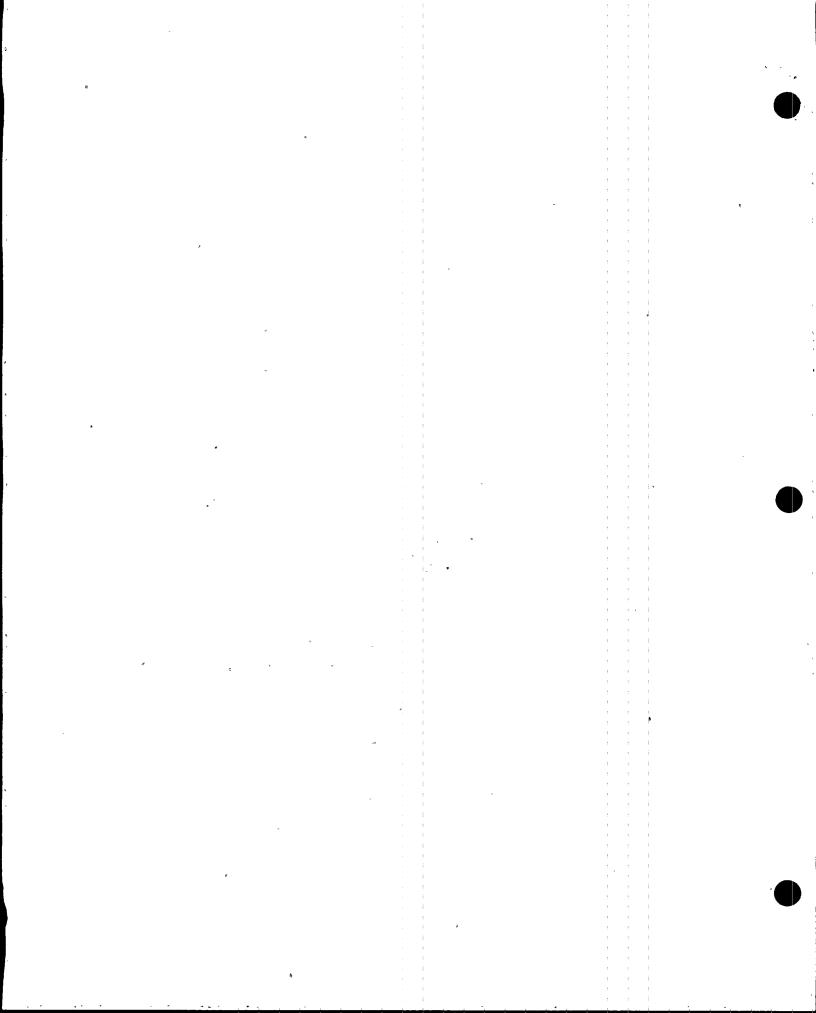
	TENSION.	COMPRESSION	CRITERIA
1).	27.80	44.01	750.00
2)	67.62	41.01	750.00
3)	.014	.011	.02
4)	64.71	47.39	750.00
REPLACE	MENT ITEM	M&S	
2 cotter pins		031-46300	-5

3-1077 16230 09/12/95 P 09/13/95 P 20.6250 P Snubber 3-1077 visual inspection report TP-95-25 revealed the following conditions described in Deviation Report 032-TP-95-25:

- 1,11) The rear bracket has been modified and the drawing does not indicate the changes.
- 6) The snubber end caps are misalinged causing the snubber to bind in the rear bracket and pipe clamp.
- 10) The spherical bearings have light rust and dirt.
- 11) 2 nuts are welded to the top and left sides of item #1 and the drawing does not indicate this. It appears that they were used during installation for lifting. The transition tube assembly bolts lack full engagement by 1/32". The transition tube plate is 5/8" thick. The bolt diameter is 1/2" and identified by L5. The spacers are welded in place and flanged bushings are installed at the rear bracket.
- 5) The pipe clamp spacers are loose and the pipe clamp is tight to the pipe. No snubber ID tag installed.

Condition Report 95-814 was written to address all the items listed above (1, 5, 6, 10, 11). The final engineering disposition of CR 95-814 is acceptable for use as is with PMAI 9509146 issued to engineering to update the snubber drawing. Item 6 was realinged in accordance with Engineering evaluation JPN-PTP-SECS-95-037. Spherical bearings were cleaned and lubricated under PWO 95024339. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). This snubber was functionally tested as part of the post rebuild test program and passed.

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	TENSION	COMPRESSION	CRITERIA
1)	30.02	79.23	750.00
2)	54.97	80.35	750.00
3)	.003	.010	.02
4)	52.44	64.04	750.00
REPLACEMEN	T ITEMS:	H&S	
3 cotter p	ins	031-46500-5	

3-1078 16244 09/12/95 P 09/13/95 P 20.2500 P Snubber 3-1078 visual inspection report TP-95-26 revealed the following conditions described in Deviation Report 033-TP-95-26:

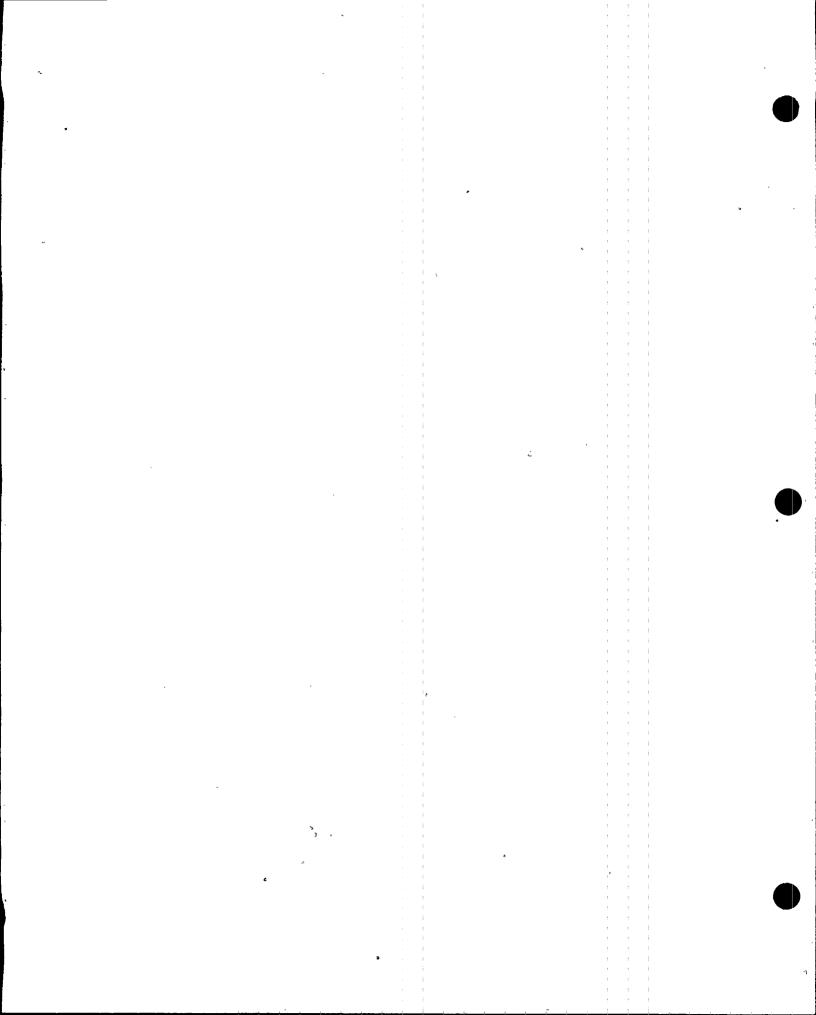
- 1,11) The rear bracket has been modified and the drawing does not indicate the changes.
- 10) Spherical bearings have light rust and dirt.
- 11) The transition tube assembly bolts lack full thread engagement by 1/32". The transition tube plate is 5/8" thick. The bolt diameter is 1/2" and identified with L5. The spacers are welded in place and flanged bushings are installed at the rear bracket.
- 5) The pipe clamp spacers are loose at ID 3-1079 side of clamp. No snubber ID tag installed.

Condition Report 95-581 was previously written and accepted the inadequate thread engagement. Condition Report 95-835 was written to address items 1, 11 and the final engineering disposition of CR 95-835 is acceptable for use as is and PMAI 9509150 issued to engineering to update the drawing. CR 95-849 was written to address the discrepancies for snubber 3-1079. Spherical bearings were cleaned and lubricated under PWO 95024339. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). This snubber was functionally tested as part of the post rebuild test program and passed.

## FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	29.12	36.97	750.00
. 2)	53.23	·41 <b>.</b> 41	750.00
3)	.014	.010	.02
4)	51.05	38.27	750.00

REPLACEMENT ITEMS:



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1 cotter pins 031-47000-4 1 cotter pins 031-49200-2

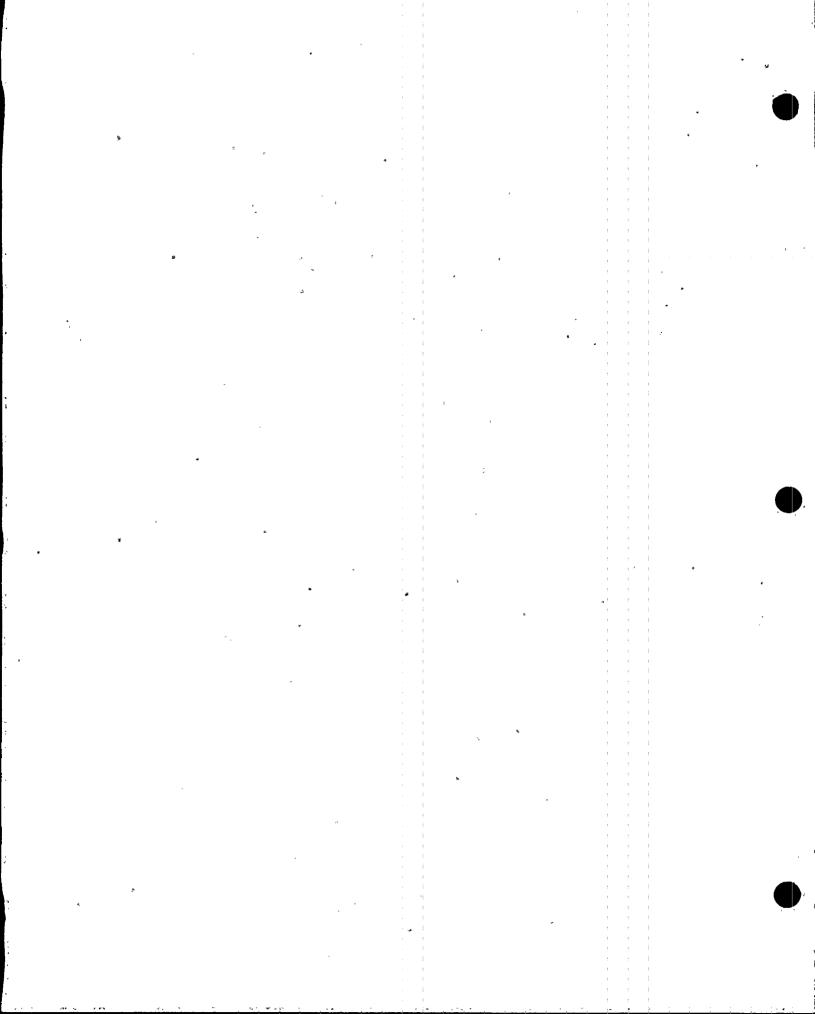
- 3-1079 10176 09/12/95 P 09/13/95 P 21.8750 P Snubber 3-1079 visual inspection report TP-95-27 revealed the following conditions described in Deviation Report 034-TP-95-27:
  - 1,11) The rear bracket has been modified and the drawing does not indicate the changes.
  - 5) The pipe clamp spacers are loose.
  - 10) Spherical bearings have light rust and dirt.
  - 11) The transition tube assembly bolts lack full thread engagement by 1/32". The transition tube plate is 5/8" thick. The bolt diameter is 1/2" and identified with L5. The spacers are welded in place and flanged bushings are installed at the rear bracket. No snubber ID tag.

Condition Report 95-849 was written to address 1, 5 & 11. The disposition of CR 95-849 is acceptable for use as is and PMAI 9509149 issued to engineering to update the drawing. Item 10 was cleaned and lubricated in accordance with PWO 95024339. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). This snubber was functionally tested as part of the post rebuild test program and passed.

# FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	18.85	44.09	750.00
2)	40.33	62.57	750.00
3)	.015	.011	.02
4)	63.82	31.32	750.00
REPLACEME	NT ITEMS:	H&S	
1 cotter	pin	031-47000-4	
1 cotter	pin	031-49200-2	

- 3-1080 12396 09/12/95 P 09/16/95 P 20.8750 P Snubber 3-1080 visual inspection report TP-95-28 revealed the following conditions described in:Deviation Report 028-TP-95-28:
  - 1,5,6,10) The end cap at the snubber end is unable to rotate. The condition which exist in this are, The snubber is at an upward angle of 7° which may be binding the end cap. The gaps between the end cap and the ears of the rear bracket are 1/32" to 1/16". The snubber end cap is loose from snubber. Cause will be verified upon removal. Light rust and dirt at bearings.



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11) The transition tube assembly bolts lack full engagement by 1/32". The tarnsition tube plate is 5/8" thick and the bolt diameter is 1/2". Spacers are welded in place. No snubber I.D. tag.

Condition report 95-837 was written to address items 1, 5, 6, 10 & 11. Spherical bearings were cleaned and lubricated under PMO 95024339. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Final disposition of CR 95-837 was completed by projects and the as left performed on 09/27/95. PMAI 9510014 was issued to engineering to update the drawing. This snubber was functionally tested as part of the post rebuild test program and passed.

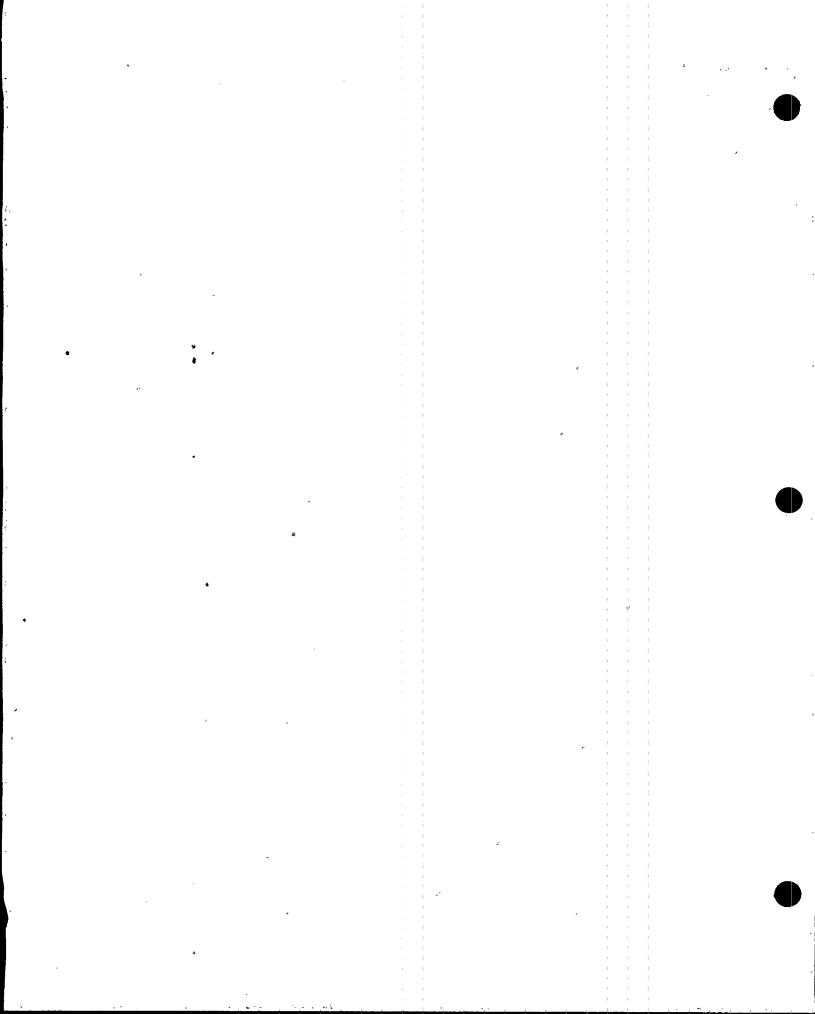
### FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	47.40	46.16	750.00
2)	72.17	37.75	750.00
3)	.010	.006	.02
.4)	105.89	<b>38.38</b>	750.00
REPLACEME	ENT ITEMS:	M&S	
2 cotter	pins	031-46301-1	h

3-1084 7000 09/18/95 P / /

- 24.5000 F Snubber 3-1084 visual inspection report TP-95-58 revealed the following items described in Deviation Report 051-TP-95-58:
  - 4) 1 spherical bearing spacer at at the rear bracket is slightly bent.
  - 5). The pipe clamp spacers are loose. The dimension between the ears of the pipe clamp is 1 1/2" and the spacers are approximately 1/4" short. One corner of the manufacturer's data plate is pulled loose from the rivet.
  - 11) The "L" dimension was found at 24 1/2" and the drawing indicated that it should be between 24 3/4" to 27". The snubber I.D. tag attachment wire is placed between the ears of the rear bracket and snubber end cap.

Condition Report CR 95-864 was written to address 4, 5, and 11. The disposition of CR 95-864 will be implemented by projects under PWO 95026339. Condition report 95-769 required the inspection of this snubber and provide the results to engineering if loose spherical bearings are found. No additional problems were encountered as a result of this inspection. Item 4 can be reused as it does not affect the operability of the snubber. Bolts removed from the transition tube assembly for handstoking were required to be replaced. The condition report identified



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Visual and Functional Summary

these bolts as A325 and A307 will be reinstalled. PMAI 9510013 was issued to engineering to update the drawing. The original nuts were reused. Bolts were retorque by projects to 500 ft/lbs using torque wrench M-A47 cal due date 02/27/96. Engineering will be issued a PMAI to track this change and update the drawing. Projects will complete installation per CR 95-864. The snubber I.D. tag was moved to the telescoping end of the snubber as shown on the as left data. The ISI group will relocate the tag to the transition tube end where it will not affect the operation of the snubber. The tag relocation occured on 10/02/95 by Frank Rihl.

REPLACEMENT ITEMS:	M&S	
2 Cotter Pins	031-49200-2	
2 Spacer Washer	006-70907-9	
6 bolts	377928/0197413-1	

3-1094 4388 09/15/95 P 09/16/95 P 15.0000 P Snubber 3-1094 visual inspection revealed the following items described in Deviation Report 042-TP-95-46:

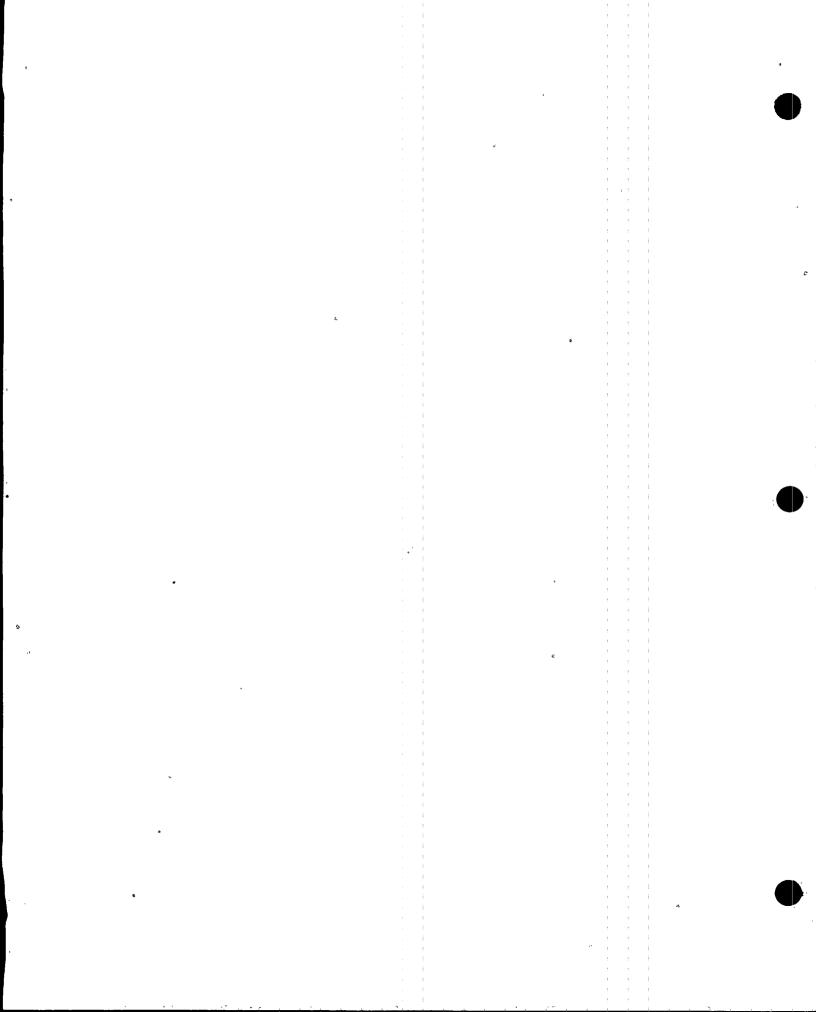
- 5) No spacer installed at the pipe clamp at pipe clamp bolt adjacent to load pin.
- 10) Unable to rotate snubber on spherical bearings which may be due to light rust and dirt. Will verify upon reinstallation.
- 11) Cap screws are installed at the transition tube assembly and lack full thread engagement by 1/32". The transition tube plate is 1/2" thich and the cap screw diameter is 5/16". The drawing indicates that the width of item 18 is 3" and the actual width id 2 1/2". Also, there are 4 7/16" diameter holes drilled. Spacers welded in place.

Condition report 95-848 was written to address spacer and drawing concerns. Final disposition of CR 95-848 accepted all the items as acceptable as is and PMAI 9509108 was issued to engineering to update the drawing. Condition report 95-581 previously addressed the thread engagement for this snubber location. Spherical bearings were cleaned and lubricated under PWO 95024339 and are free to rotate. This snubber was functionally tested as part of the post rebuild test program and passed.

# FUNCTIONAL TEST DATA

	TENSION	COMPRESSION	CRITERIA
1)	20.85	11.50	300.00
2)	33.01	17.03	300.00
3)	.006	.007	.02
4)	28.04	17.51	300.00

REPLACEMENT ITEM



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2 cotter pins

031-46301-1

3-1123 6484 09/09/95 P / /

27.7500 P Snubber 3-1123 visual inspection report TP-95-10 revealed the following conditions described in Deviation Report 009-TP-95-010.

2, 3, 4, 7, 15, 18, and 20) Has heavy rust and corrsion from trapped wate due to configuration, some pitting of the steel has occurred. Minor rust on pin and bearings.

Rear bracket is not PSA, they have a 7" pin.

5) No snubber I.D. tag attached.

Pipe Insulated.

Condition Report CR 95-756 was written to address rust on items, 2, 3, 4, 7, 15, 18, 20. PMAI 9509141 was issued to engineering to update the drawing and PMAI 9509142 to mechanical maintenance to drill holes do disperse rainwater. Condition Report CR 95-738 was written to address the load pin which does not appear to be PSA as specified on drawing. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawings. Cleaned minor rust from pins and spherical bearings as stated in PWO 95024339. The snubber I.D. tag will be ordered by the ISI group and will be installed during the next inspection (TS-95-10-001). The insulated pipe does not affect operability of the snubber.

REPLACEMENT ITEMS:

M&S

2 Cotter Pins

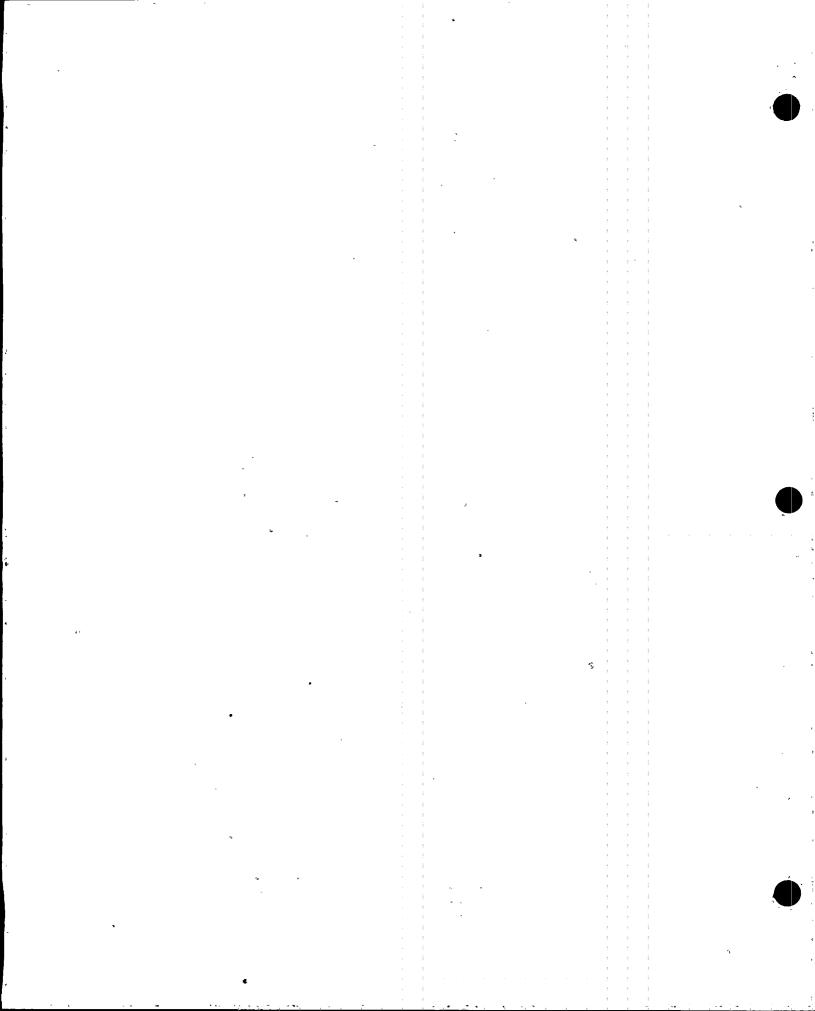
031-46500-5

3-1124 12991 09/09/95 P / /

27.7500 P Snubber 3-1124 visual inspection report TP-95-09 revealed the following conditions described in Deviation Report 008-TP-95-09:

- 5) Missing lower spacer at the rear bracket snubber end and there is sufficient room for additional one. No snubber ID tag installed.
- 10) Items 2, 3, 4, 7, 15, 18 & 20 have heavy rust and corrosion from trapped water due to configuration, some pitting of the tube steel has occured.
- 7) Load pin has .003" wear. End brackets are not PSA 7" pin.

Item 5, lower spacer was replaced per engineering evaluation JPN-PTP-SECS-95-037, rev. 0, step 1.2. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Spherical bearings were cleaned and lubricated under PMO 95024339. Condition Report 95-755 was written to address the rear bracket load pin wear with PMAI 9509095 to engineering to update the drawing and CR 95-756



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was written to address the pooling of water with PMAI 9509141 going to engineering to update the drawing and PMAI 9509142 to mechanical maintenance to drill holes to disperse the rainwater.

REPLACEMENT ITEMS:

M&S

1 spacer washer

006-70907-9

3-1125 12986 09/09/95

26.6250 P Snubber 3-1125 visual inspection report TP-95-11 revealed the following items described in Deviation Report 011-TP-95-11:

- 5) Missing upper spacer at the rear bracket extension piece end and there's sufficient room for additional one. No snubber I.D. tag attached.
- 10) Items 2, 3, and 4 have heavy rust and corrosion from trapped water due to configuration, some pitting of the steel has occurred. One snubber end cap is painted. Brackets are not PSA supplied, they have a 7" pin. Pipe is insulated.vMinor rust on pin and bearings.

Replaced missing upper spacer at rear bracket as stated in JPN-PTN-SECS-95-037, rev. 1., step 1.2. Condition Report CR 95-756 was written addressing corrosion due to pooling of water with PMAI 9509141 going to engineering to update the drawing and PMAI 9509142 to mechanical maintenance to drill holes to disperse the rainwater. Condition Report CR 95-738 was written to address load pins which do not appear to be PSA supplied as specified in drawings. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawings. Cleaned minor rust on pins and bearings and lubricated as stated in JPN-PTN-SECS-95-037, rev. 1. Insulated pipe does not affect operability of snubber. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). The painted end cap does not affect the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable for use as is.

REPLACEMENT ITEMS:

M&S

1 Spacer Washer

AN-960-2616

006-70907-9

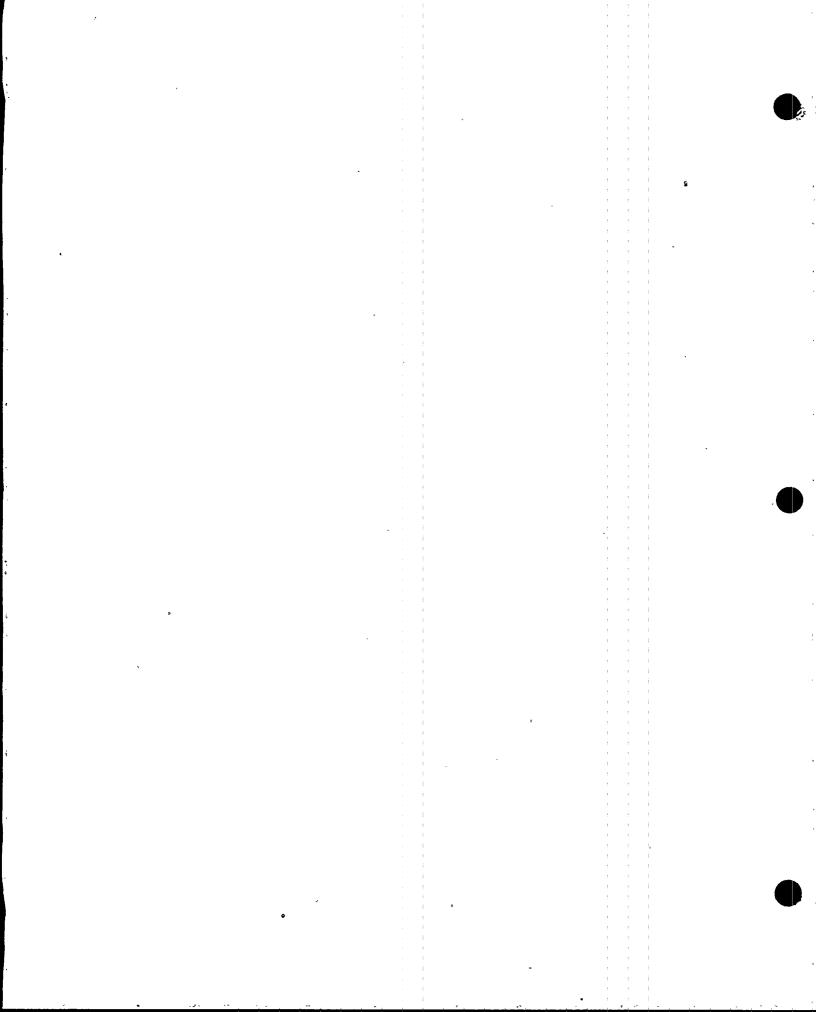
2 Cotter Pins

031-46500-5

3-1126 12989 09/09/95 P

27.0000 P Snubber 3-1126 visual inspection report TP-95-12 revealed the following items described in Deivation Report 006-TP-95-12:

- 5) No I.D. tag installed.
- 10) Items 2, 3, and 4 have heavy rust and corrosion from trapped water due to configuration, some pitting of the steel has occurred. Light surface rust was found on snubber cylinder. End caps are painted. End brackets are not PSA brackets, 7" pin.



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Condition Report CR 95-756 written addressing rust due to pooling of water with PMAI 9509141 going to engineering to update the drawing and PMAI 9509142 going to mechanical maintenance to drill holes to disperse the rainwater. Condition Report CR 95-738 written addressing load pins which do not appear to be PSA as specified on drawing. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawings. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Painted end caps do not affect the operability of the snubber as evidenced by the satisfactory handstroke and the snubber is acceptable as is. The light rust on the snubber cylinder does not affect the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable as is.

### REPLACEMENT ITEMS:

M&S

1 Spacer Washer

AN-960-2616

006-70907-9

1 Cotter Pin

031-46500-5

'P / /

conditions described in Deviation Report 010-TP-95-13:

5) No snubber ID tag.

10) Snubber end caps are painted. Rear brackets are not PSA.

27.2500 P Snubber 3-1127 visual inspection report TP-95-13 revealed the following

The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Condition report 95-738 was written to address the rear bracket and load pin drawing discrepancies. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawings. Painted end caps do not affect the operability of the snubber as evidenced by the satisfactory handstroke and are acceptable for use as is.

REPLACEMENT ITEMS:

M&S

2 cotter pins

031-46500-5

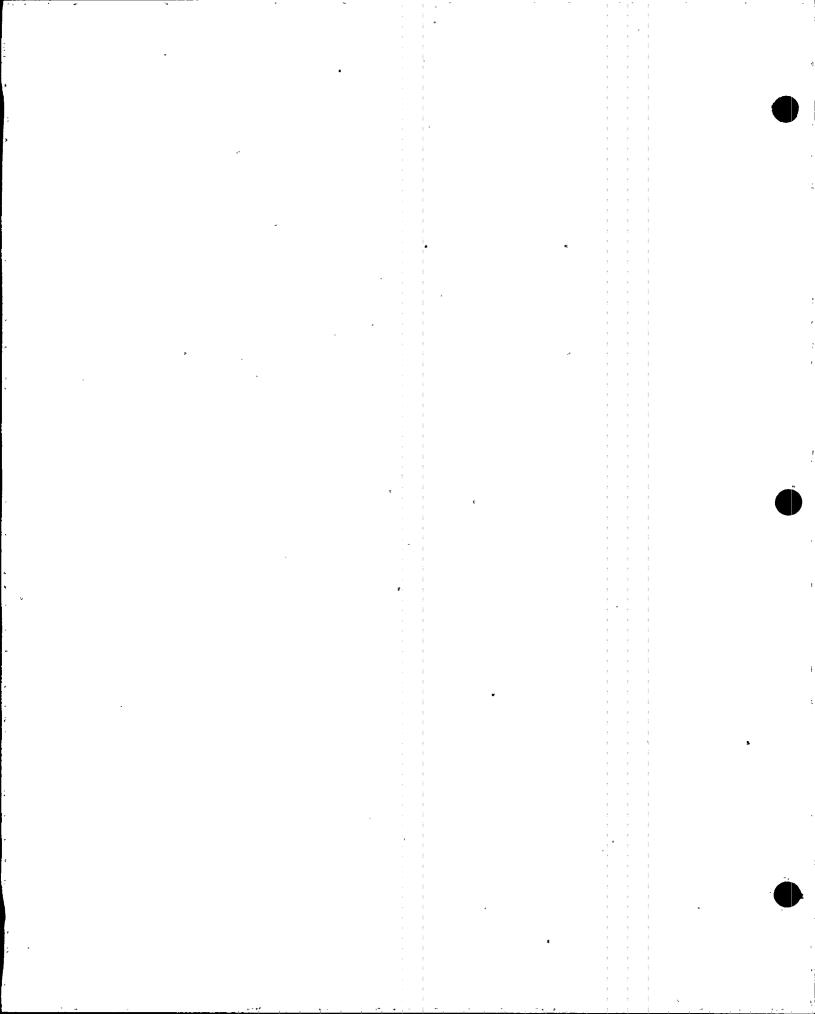
3-1128 12985 09/09/95 P / /

3-1127 12990 09/09/95

27.1250 P Snubber 3-1128 visual inspection report TP-95-14 revealed the following conditions described in Deviation Report 012-TP-95-14:

10) Snubber end caps are painted. Rear and snubber brackets are not PSA.  $0^{11} & 1/2^{11}$  marks are worn off indicator tube.

Condition report 95-738 was written to address the load pins and rear bracket which are not PSA as indicated on the drawing. Final engineering



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disposition of condition report 95-738 shows the rear brackets are acceptable as is with a PMAI 9509074 going to engineering to update the drawings. Spherical bearings were cleaned and lubricated under PWO 95024339. The scale marks worn off the indicator tube do not affect the operation of the snubber and the condition is acceptable as is. The hot/cold setting can still be obtained by physical measurement.

REPLACEMENT ITEMS:

M&S

2 cotter pins

031-46500-5

3-1129 12987 09/09/95 P /

26.5000 P Snubber 3-1129 visual inspection report TP-95-15 revealed the following conditions described in Deviation Report 013-TP-95-15:

- 5) 1 spacer missing from lower side of the rear bracket at extension piece.
- 10) End caps are painted. Light rust on spherical bearings and load pin.
- 11) Snubber rear bracket is not a PSA.

Replace missing spacer washers in accordance with engineering evaluation JPN-PTP-SECS-95-037, rev 0, step 1.2. The painted end cap does not affect the operability of the snubber as evidenced by the satisfactory handstroke. Spherical bearings were cleaned and lubricated under PWO 95024339. Condition report 95-738 was written to address the rear bracket and load pin drawing discrepancies. Final engineering evaluation was acceptable as is and PMAI 9509074 issued to engineering to update the drawings. Vendor torqued pipe clamp to 800 ft lbs using B-5191, cal due date 01/21/96.

REPLACEMENT ITEMS:

M&S

2 cotter pins

031-46500-5

1 spacer washer

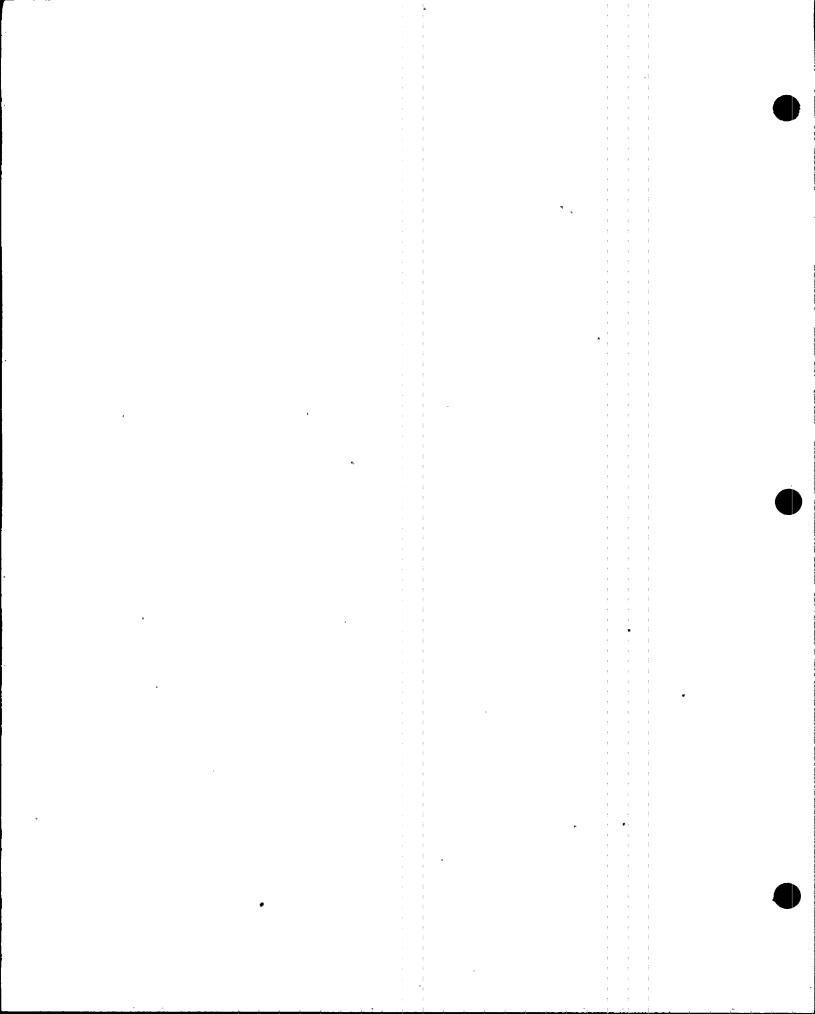
006-70907-9

3-1130 17840 09/10/95 P / /

19.7500 P Snubber 3-1130 visual inspection report TP-95-16 revealed the following conditions described in Deviation Report 018-TP-95-16:

- 5) Missing lower spacer at extension piece rear bracket and there's sufficient room for an additional one.
- 10) Light rust on spherical bearings.
- 11) Light surface rust on snubber due to exposure to the weather. The load pins do not appear to be supplied by PSA as indicated on the drawing. No snubber ID tag supplied.

The spacer washers were replaced in accordance with engineering evaluation



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JPN-PTP-SECS-95-037, rev. 0, step 1.2. Spherical bearings were cleaned and lubricated under PMO 95024339. Condition report 95-738 to address the rear bracket and load pins. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawings. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). The light rust on the snubber does not affect the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable as is.

REPLACEMENT ITEMS:

MAS

4 spacer washers

006-70906-1/R90-5711

3-1131 17837 '09/10/95 P / /

19.0875 P Snubber 3-1131 visual inspection report TP-95-17 revealed the following conditions described in Deviation Report 019-TP-95-17:

- 10) Light rust on spherical bearings.
- 11) Light surface rust on snubber due to exposure to the weather. Snubber end cap are painted and minor paint spots on the snubber. The load pins do not appear to be supplied by PSA as indicated on the drawing. No snubber ID tag attached.

Spherical bearings were cleaned and lubricated under PWO 95024339. Condition report 95-738 was written to address the rear brackets and load pins. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawings. Light rust and paint spots does not affect the operability of the snubber as evidenced by the satisfactory handstroke. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (IS-95-10-001).

REPLACEMENT ITEMS:

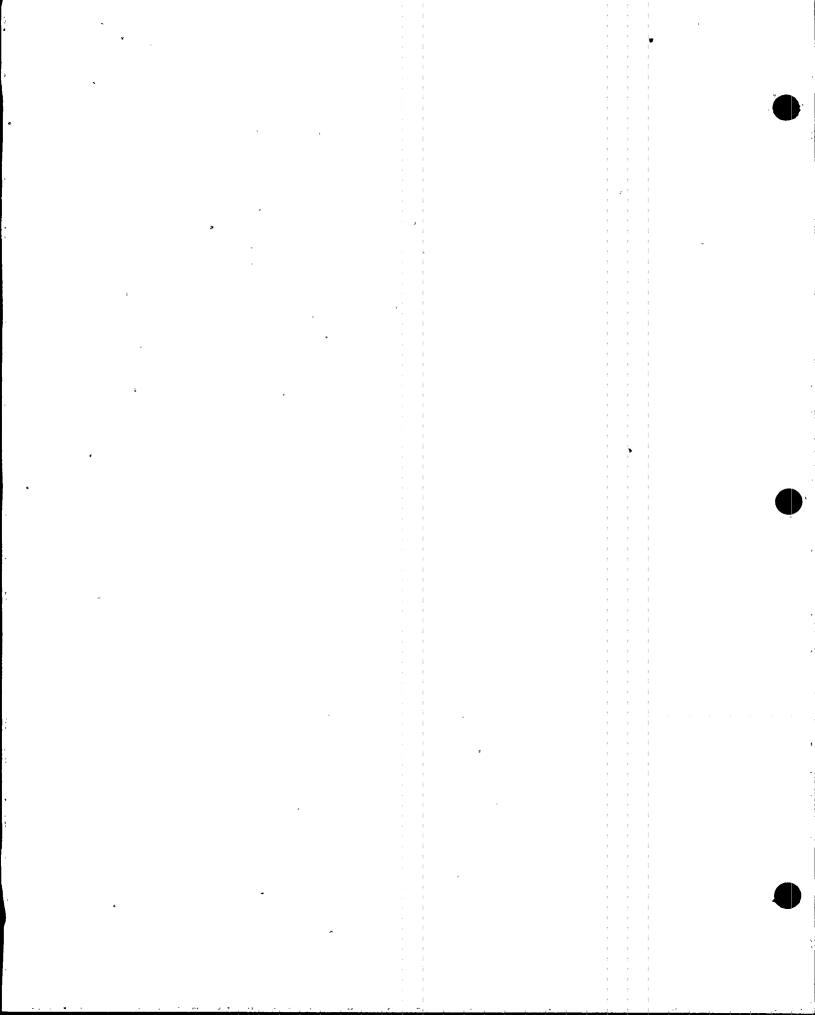
M&S

4 sapcer washers

006-70906-1/R90-8711

3-1132 17838 09/10/95 P / /

- 19.5000 P Snubber 3-1132 visual inspection report TP-95-18 revealed the following conditions described in Deviation Report 020-TP-95-18:
  - 5) Hissing both spacers at extension piece end rear bracket and the lower spacer at the snubber end rear bracket and there's sufficient room for an installation.
  - 10) Light rust on spherical bearing. Snubber end cap painted. Light surface rust on snubber due to exposure to the weather. The load pins do not appear to be supplied by PSA as indicated on the drawing. No snubber ID tag.



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Replaced spacer washers in accordance with JPN-PTP-SECS-95-037, rev 0, step 1.2. Spherical bearings were cleaned and lubricated under PWO 95024339. Snubber end cap paint does not effect the operability of the snubber as evidenced by the satisfactory handstroke. Condition report 95-738 was written to address the load pins and rear bracket. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawings. The light rust on the snubber does not affect the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable as is. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001).

REPLACEMENT ITEMS:

M&S

4 spacer washers

006-70906-1/R90-5711

3-1133 13695 09/10/95 P / /

19.8125 P Snubber 3-1133 visual inspection report TP-95-19 revealed the following conditions described in Deviation Report 017-TP-95-19:

- 5) Missing lower spacer at extension piece rear bracket and there's sufficient room for an additional one.
- 10) Light rust on spherical bearing.
- 11) Items 2, 3 & 4 as shown on the support drawing have heavy rust and corrosion from trapped water due to configuration. Some pitting has occured. Light surface rust on snubber due to exposure to the weather. Snubber end cap is painted. The load pins do not appear to be supplied by PSA as indicated on the drawing. No snubber ID tag installed.

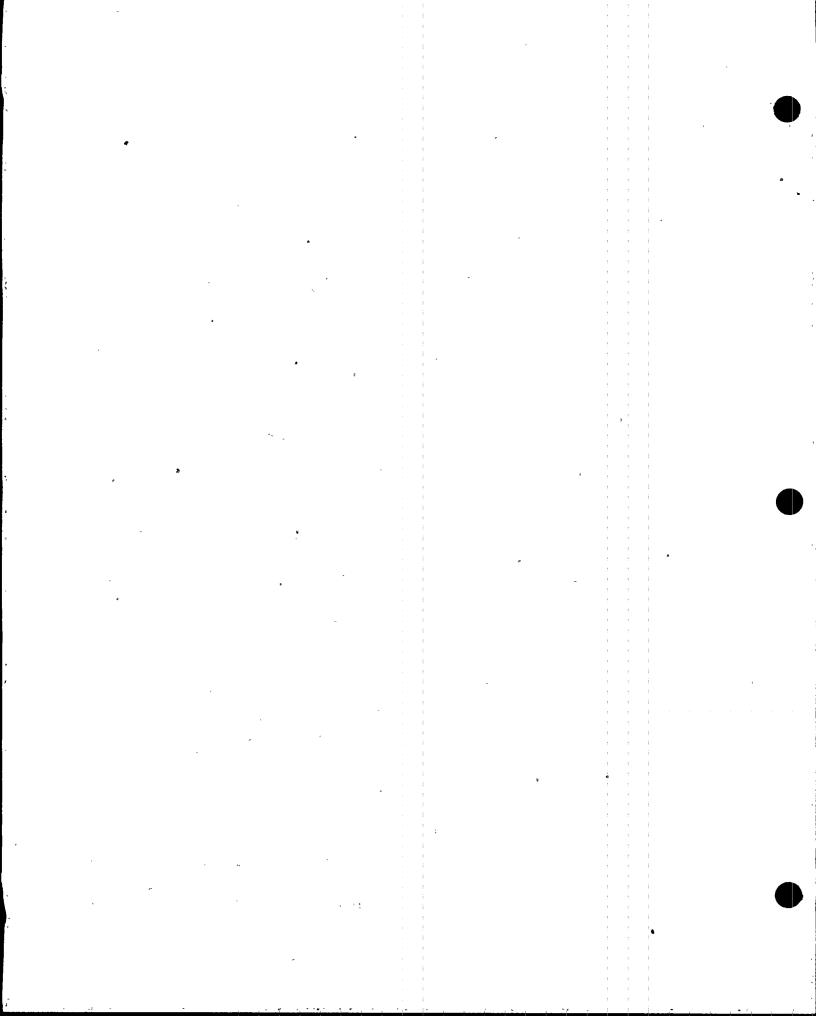
Condition report 95-738 was written to address the load pins and rear brackets which do not appear to be PSA supplied as indicated on the drawing. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawings. Pacific Scientific replaced the spacer washers in accordance with JPN-PTP-SECS-95-037, rev 0, step 1.2. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Spherical bearings were cleaned and lubricated under PWO 95024339. The painted snubber end cap and light surface rust are acceptable for use as is as it does not impede the operability of the snubber as evidenced by the satisfactory handstroke.

REPLACEMENT' ITEMS:

H&S

4 spacer washers

006-70907-9/R89-2582



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- 5) Missing lower spacer at extension piece rear bracket and there's sufficient room for an additional one.
- 10) Light rust an spherical bearings.
- 11) Snubber end cap painted. Light rust on snubber due to exposure to the weather. No snubber ID tag installed. The load pins do not appear to PSA supplied as indicated on the drawing.

Replace 4 spacer washers in accordance with engineering evaluation JPN-PTP-SECS-95-037, rev 0, step 1.2. Spherical bearings were cleaned and lubricated under PWO 95024339. The snubber ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001). Condition Report 95-738 written to address the snubber rear bracket and load pins which do not appear to be PSA supplied as indicated on the drawing. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawings. The light rust on the snubber and painted end cap do not affect the operability of the snubber as evidenced by the satisfactory handstroke and the condition is acceptable as is.

REPLACEMENT ITEMS:

M&S

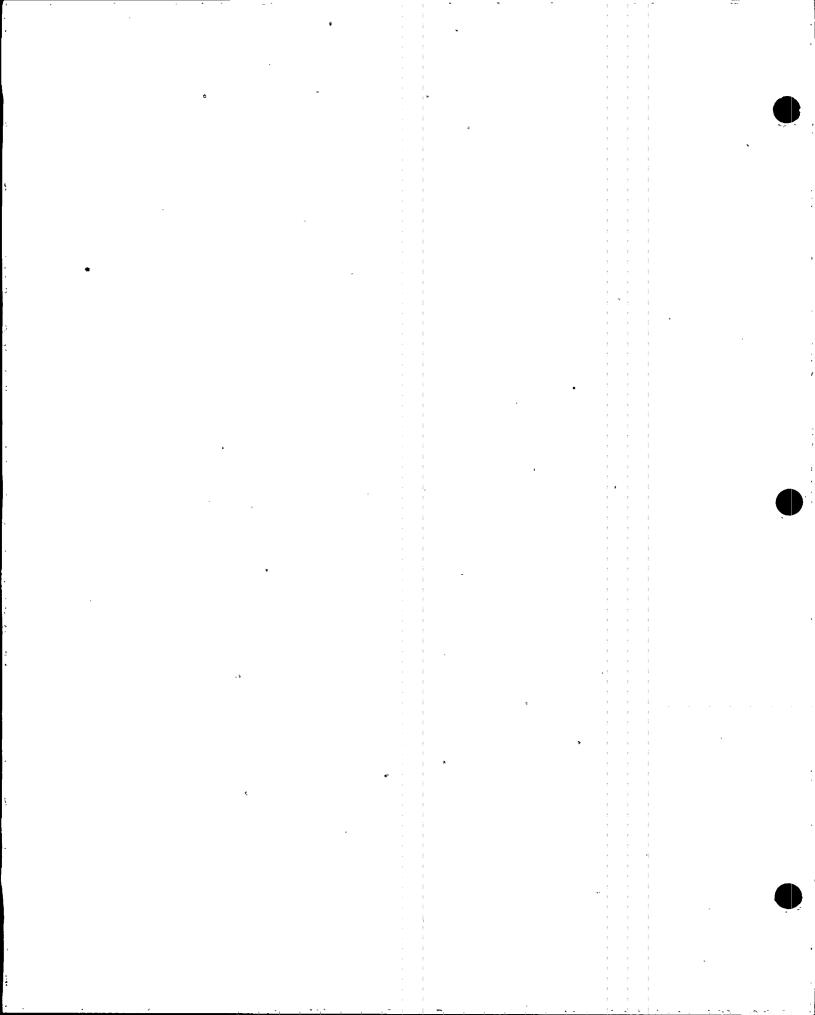
4 spacer washers

006-70906-1/R90-5711

3-1135 17839 09/10/95 P / /

- 19.5625 P Snubber 3-1135 visual inspection report TP-95-21 revealed the following items described in Deviation Report 014-TP-95-21:
  - 5) Missing upper spacer at reqr bracket (snubber end) and there's sufficient room for additional one. No snubber ID tag.
  - 10) Snubber end cap spherical bearing painted. Snubber has light rust due to exposure to the weather, no metal loss.
  - 11) Snubber end cap painted. at items 2, 3 & 4 as shown on the support drawing there's standing water (upper side) due to the configuration. The load pins do not appear to be supplied by PSA as indicated on the drawing.

Vendor replaced upper spacer washers at rear bracket in accordance with Engineering evaluation JPN-PTP-SECS-95-037, rev 0, step 1.2. Condition report 95-738 was written to address load pins and rear brackets that do not appear to be PSA. Final engineering disposition of condition report 95-738 shows the rear brackets are acceptable as is with PMAI 9509074 going to engineering to update the drawing. Condition report 95-756 was written to address the standing water with PMAI 9509141 going to engineering to update the drawing and PMAI 9509142 to mechanical maintenance to drill holes to disperse the rainwater. Spherical bearings were cleaned and lubricated in accordance with PWO 95024339. The snubbed



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ID tag will be ordered by the ISI group and installed during the next inspection (TS-95-10-001).

REPLACEMENT ITEMS:

MEC

4 spacer washers

006-70906-1/R90-5711

