



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

January 31, 1992

Docket Nos: 50-321, 50-366
50-424 and 50-425

LICENSEE: Georgia Power Company, et al.

FACILITY: Hatch Nuclear Plant, Units 1 and 2
Vogtle Electric Generating Plant, Units 1 and 2

SUBJECT: SUMMARY OF NOVEMBER 19, 1991, MEETING ON LICENSING
ISSUES AND INITIATIVES AT HATCH AND VOGTLE PLANTS

On November 19, 1991, the NRC staff met with Georgia Power Company (GPC and licensee) representatives at the Vogtle Electric Generating Plant to discuss licensing issues and various licensee initiatives for Hatch and Vogtle. Enclosure 1 lists the attendees and Enclosure 2 contains the meeting agenda.

The meeting began with brief opening remarks by the Vogtle General Manager, W. B. Shipman; Vogtle Vice President, C. K. McCoy; and NRC Project Manager for Vogtle, D. S. Hood. The remarks were followed by a tour of the Reactor Simulator and Operator Training Center, the Vogtle Control Room and Service Building.

The Vogtle Assistant General Manager for Plant Operations, J. B. Beasley, presented an overview of Vogtle's operating status. He noted that Unit 1 was in the 66th day of its third refueling outage. Unit 1 had just entered Mode 2 and was expected to be critical November 22, 1991. Unit 2 was noted to have been operating at full power for 195 days, surpassing its previous on-line record of 107 days. He attributed Unit 2's performance, in part, to improved plant maintenance and procedure compliance.

The Vogtle Manager of Outage and Planning, J. E. Swartzwelder, summarized Unit 1's outage activities. Major design changes during this outage included introducing Westinghouse's VANTAGE-5 fuel, replacing the reactor temperature detector (RTD) bypass manifold system with in-line RTDs, relocating instrument taps for steam generator level and completing the snubber reduction program. The work associated with the RTD changes was completed in 6 days, 2 days ahead of schedule, minimizing personnel exposure. The snubber population for Vogtle was decreased from about 1300 to about 450. Mr. Swartzwelder reviewed the increase in iodine levels inside containment after vessel head removal, the impact upon residual heat removal flow during low levels when

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instruments misrepresented cavity level during drain down, and a malfunction of the SIGMA refueling machine. He also identified special measures taken during the outage to reduce risk and presented charts showing the impacts of these measures upon schedule.

The Vogtle General Manager, W. B. Shipman, discussed recent innovations and plans to improve performance in areas such as procedure compliance, worker safety, missed surveillances, communications, and maintenance. The Manager of Engineering Technical Support, S. Chesnut, discussed NRC's Generic Letter (GL) 91-18, "Information to Licensees Regarding Two NRC Inspection Manual Sections on Resolution of Degraded and Nonconforming Conditions and on Operability," and GPC's approach to operability determinations. GPC will provide its written comments on GL 91-18 in December 1991. Mr. Chesnut also identified several licensing change requests that are currently contemplated. These include Technical Specification changes regarding GLs 89-01 and 87-09, valve surveillances for turbine overspeed protection, limiting conditions for operation for diesel generator sequencers, decreased reactor coolant thermal design flow, and increased reactor power.

The Hatch Manager of Nuclear Safety and Licensing, S. Tipps, reviewed the current status of the Hatch facility, noting that Unit 1 was in its 13th refueling outage and Unit 2 was at 100% power. He discussed results of the decontamination of Unit 1's recirculation piping and Unit 1's heat rate improvements during the Autumn of 1991. He noted that corrective actions for motor-operated valves would be completed by June 1994 in accordance with the established schedule for GL 89-10, and that inspections and testing of the Service Water Systems had been completed this recent outage in accordance with GL 89-13. He described the Hatch fuse program, noting that over 9700 fuses (safety-related and important-to-safety) are now listed on the master fuse list. An onsite engineer now serves as fuse engineer. Mr. Tipps also discussed plans to minimize use of banana plugs for jumpers, and the outage management policy at Hatch.

Mr. D. Lang of NRC discussed current operator licensing issues, including pilot examinations at six plants based on the team concept during simulator qualifications.

Georgia Power Company

Edwin I. Hatch Nuclear Plant
Vogtle Electric Generating Plant

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January 31, 1992

The afternoon session consisted of separate meetings on Vogtle and Hatch to review the status of current licensing activities.

The next meeting will be determined at a later date.

Darl Hood

Darl Hood, Project Manager
 Project Directorate II-3
 Division of Reactor Projects - I/II
 Office of Nuclear Reactor Regulation

Enclosures:
 As stated

cc w/encls:
 See next page

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G. Lainas	14/H/3	D. Hood		
D. Matthews	14/H/25	K. Jabbour		

PM:PDII3
 DHood
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 01/30/92

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Meeting Attendance Record

Georgia Power 

Meeting Purpose NUCLEAR REGULATORY COMMISSION (NRC) QUARTERLY INTERFACE MEETING		File
Date NOVEMBER 19, 1991	Conducted By MR. JIM BAILEY	

Name (Print)	Title (Print)	PHONE		Department/Company/PLANT
		Extension Number		
JIM BAILEY	MANAGER LICENSING	7097		EGL / SNC / VOGTLE
S. B. TIPP	Mgr-Nuc. Safety & Licensing			NSIC / GPC / Hatch
L. D. WERT	Senior Resident Inspector - Hatch			NRC / Hatch
BRIAN ROYSE	SENIOR RES. INSP VOGTLE	4249		USNRC / VOGTLE
KANTANN JABBOUR	Senior Project Manager	492-149		USNRC / NRR Hatch
KR COTTON	Reactor Engineer	492-1179		USNRC
DAVID LANGE	Acting Director PDI-3	492-1493		USNRC / NRR
L. RAGHAVAN	PROJECT MANAGER PDI-3	492-0019		USNRC / NRR
EARL HOOD	" " P.DI-3	492-3049		USNRC / NRR
PIERCE SKINNER	SECTION CHIEF 3B ^{RII} NRC			USNRC / RII
KEW MCCOY	V.P. GPC	205-877-7122		GPC
BILL SHIPMAN	PLT MGR	3118		GPC
Tom Greene	Manager - Eng & Lic	877-7103		Southern Nuclear
Garvey Nix	Gen Mgr. - Hatch Project	877-7275		Southern Nuclear
Steve Bethay	Manager Licensing - Hatch	205-877-7392		Southern Nuclear
Skip Kitchens	ASST. General Mgr	404-826-3190		Vogtle GPC
J. Bonnie Brasley	Asst General Mgr	404-826-4209		Vogtle GPC
S. H. Chesnut	Tech Support MGR	404-826-3600		Vogtle GPC
TOM WOODS	SUP OF Nuc Ops	404-826-3400		VOGTLE OPS
HERBERT BEACHER	SENIOR ENGR	826 3769		NSAC / GPC / VOGTLE
MEHDI SHEIBANI	NSAC Supervisor	826 3209		NSAC / GPC / VOGTLE
Jim Swartwelder	Manager Outage + Planning			VOGTLE - GPC

GPC/NRC INTERFACE MEETING

ADMINISTRATION BUILDING, 2ND FLOOR CONFERENCE ROOM

NOVEMBER 19, 1991

AGENDA

- Plant Tour 8:00 - 9:30
- Opening Remarks NRC/GPC 9:30 - 9:45
- Plant Vogtle 9:45 - 11:30
- Operational Overview
 - (1) Plant Status J. B. Beasley
 - (2) Outage Summary J. E. Swartzwelder
 - (3) Problem Areas W. B. Shipman
 - (4) Approach to Operability Determinations S. H. Chesnut
 - (5) Major Activities S. H. Chesnut
 - a) Regulatory
 - b) Self Initiated
- Plant Hatch 11:30 - 12:30
- Operational Overview
 - (1) Plant Status H. L. Summer
 - (2) Outage Summary H. L. Summer
 - (3) Major Activities S. Tipps
 - a) Regulatory
 - b) Self Initiated
- NRC Items (Working Lunch) 12:30 - 1:30
- Breakout Sessions 1:30 - 3:00
 - Vogtle Licensing Issues J. A. Bailey/S. H. Chesnut
 - Hatch Licensing Issues S. J. Bethay/S. Tipps

1R3 SUMMARY

BY

J. E. SWARTZWELDER

- 1R3 MAJOR SCOPE
- 1R3 OUTAGE STATISTICS
- 1R3 HIGHLIGHTS
- 1R3 ACTUAL VS PLANNED
SUMMARY SCHEDULE

1R3 MAJOR SCOPE

- EDDY CURRENT TEST - 20% OF 4 S/G'S
- S/G CLEANING AND INSPECTION - 4 S/G'S
- RCP MOTOR INSP. #1, #2 & #4 (18 MONTH)
- RCP MOTOR INSPECTIONS #3 (5 YEAR)
- REACTOR COOLANT PUMP SEALS - #2 & #3
- #1 SEAL REPLACEMENT HIGH TEMP O-RINGS
- FLUX THIMBLE TUBE EDDY CURRENT TEST
- RX VESSEL FOSAR
- MAIN GENERATOR INSPECTION
- LOW PRESSURE B TURBINE INSPECTION/REPAIR
- REPLACE MAIN GEN RETAINING RING
- CV / CIV INSPECTION
- MAIN FEEDWATER PUMP A TURBINE INSPECTION
- MAIN FEEDWATER PUMPS A & B REPAIRS

1R3 OUTAGE

SCOPE

WORK TYPE	PLANNED	ACTUAL
PREVENTIVE MWO	947	989
CORRECTIVE MWO	1003	1660
SURVEILLANCE TEST	499	518
DESIGN CHANGES (DCP & MDD)	80	98
TOTAL ACTIVITIES	4622	5277

OUTAGE DURATION

51 DAYS 19 HOURS - PLANNED

68 DAYS 16 HOURS - PROJECTED

MAJOR DESIGN CHANGES

RTD BYPASS ELIMINATION

VANTAGE 5 FUEL

STEAM GENERATOR LEVEL TAP RELOCATION

CONTAINMENT EQUIPMENT HATCH CLOSURE

SPENT FUEL POOL GATE SEAL

SNUBBER REDUCTION PROGRAM

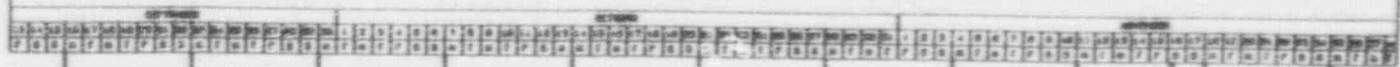
1R3 HIGHLIGHTS

- CLEAN UP OF RCS - CHEMISTRY
- SEALING NI PORTS & VENT COVERS
- DEFUELED VALVE WORK
- IODINE IN CONTAINMENT
- RHR FLOW INADEQUACY
- FUEL RELOAD - SIGMA
- MAJOR COMPONENT DISCOVERY WORK
 - RPV FLANGE
 - PZR SV FLANGE
 - SG SECONDARY MANWAY SEALING SURFACE
 - MAIN GENERATOR STATOR - COOLING COILS
 - MAIN GENERATOR HV BUSHINGS - AIR TEST
 - THRUST BEARING IN CCP A
 - EXTRACTION STEAM EXHAUST BELLOWS
 - ENCAPSULATION VESSELS
- CORE OFF LOAD
- RTDBE MECHANICAL IMPLEMENTATION
- ALARA RESULTS
 - PERSONNEL CONTAINMATIONS
 - EXPOSURE GOAL

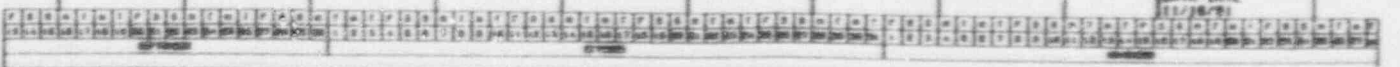
IR3 RISK ASSESSMENT

<p>FUELING</p> <p>FUEL SHUFFLE IN SPENT FUEL POOL 9/29/91 <input type="checkbox"/> 10/01/91</p> <p>FUEL OFF LOAN 9/28/91 <input type="checkbox"/> 9/29/91</p> <p>FUEL RELOAD 10/18/91 <input type="checkbox"/> 10/23/91</p>	<p>INVENTORY</p> <p>RCS LOOPS FILLED 9/18/91 <input type="checkbox"/> 9/19/91</p> <p>RCS BETWEEN 317 AND 181 9/19/91 <input type="checkbox"/> 9/28/91</p> <p>RCS AT REFUELING LEVEL 217 9/28/91 <input type="checkbox"/> 9/29/91</p> <p>RCS AT HILOOMP 9/28/91 <input type="checkbox"/> 9/29/91</p> <p>RCS AT REFUELING LEVEL 217 10/13/91 <input type="checkbox"/> 10/20/91</p> <p>RCS BETWEEN 181 AND 217 10/28/91 <input type="checkbox"/> 11/03/91</p> <p>RCS LOOPS FILLED 11/03/91 <input type="checkbox"/> 11/12/91</p> <p>MODE 4 ENTRY 11/12/91 <input type="checkbox"/> 11/12/91</p>	<p>TECHNICAL SERVICES</p> <p>B TRAIN B/G DC MORTAR INSPECTION 10/13/91 <input type="checkbox"/> 10/20/91</p> <p>B EXPAS PREP 10/04/91 <input type="checkbox"/> 10/06/91</p> <p>B TRAIN EXPAS TESTING 10/27/91 <input type="checkbox"/> 10/27/91</p> <p>B TRAIN D/G INSPECTION 10/06/91 <input type="checkbox"/> 10/06/91</p> <p>B TRAIN EXPAS TESTING 10/04/91 <input type="checkbox"/> 10/06/91</p> <p>B TRAIN D/G INSPECTION 10/06/91 <input type="checkbox"/> 10/06/91</p> <p>B TRAIN EXPAS TESTING 10/04/91 <input type="checkbox"/> 10/06/91</p> <p>D/G B TRAIN INOP 11/05/91 <input type="checkbox"/> 11/10/91</p>	<p>CONTAINMENT</p> <p>DOUBLE TEST A RESERVE RUX TRANSFORMER 10/10/91 <input type="checkbox"/> 10/11/91</p> <p>CONTRIMENT EQUIPMENTS: HATCH OPEN 9/18/91 <input type="checkbox"/> 9/19/91</p> <p>CONTRIMENT EQUIPMENT HATCH OPEN 9/30/91 <input type="checkbox"/> 10/13/91</p> <p>CONTRIMENT EQUIPMENT HATCH OPEN 11/04/91 <input type="checkbox"/> 11/09/91</p> <p>1202 NSCM TRAIN A 10/03/91 <input type="checkbox"/> 10/13/91</p> <p>1202 NSCM A TRAIN INOP FOR VLV INSTL 10/19/91 <input type="checkbox"/> 10/19/91</p> <p>1203 CCM TRAIN A 10/07/91 <input type="checkbox"/> 10/13/91</p> <p>NSCM B TRAIN INOP 11/08/91 <input type="checkbox"/> 11/08/91</p> <p>CCM B TRAIN INOP 11/05/91 <input type="checkbox"/> 11/06/91</p>	<p>TRAINABILITY</p> <p>RNR B TRAIN INOP FOR TWO 19104530 9/15/91 <input type="checkbox"/> 9/15/91</p> <p>RNR A TRAIN INOP 9/28/91 <input type="checkbox"/> 10/17/91</p> <p>RNR A TRAIN INOP FOR NSCM VALVE INST 10/19/91 <input type="checkbox"/> 10/19/91</p> <p>RNR B TRAIN INOP 10/07/91 <input type="checkbox"/> 10/14/91</p> <p>RNR B TRAIN INOP 11/05/91 <input type="checkbox"/> 11/10/91</p>	

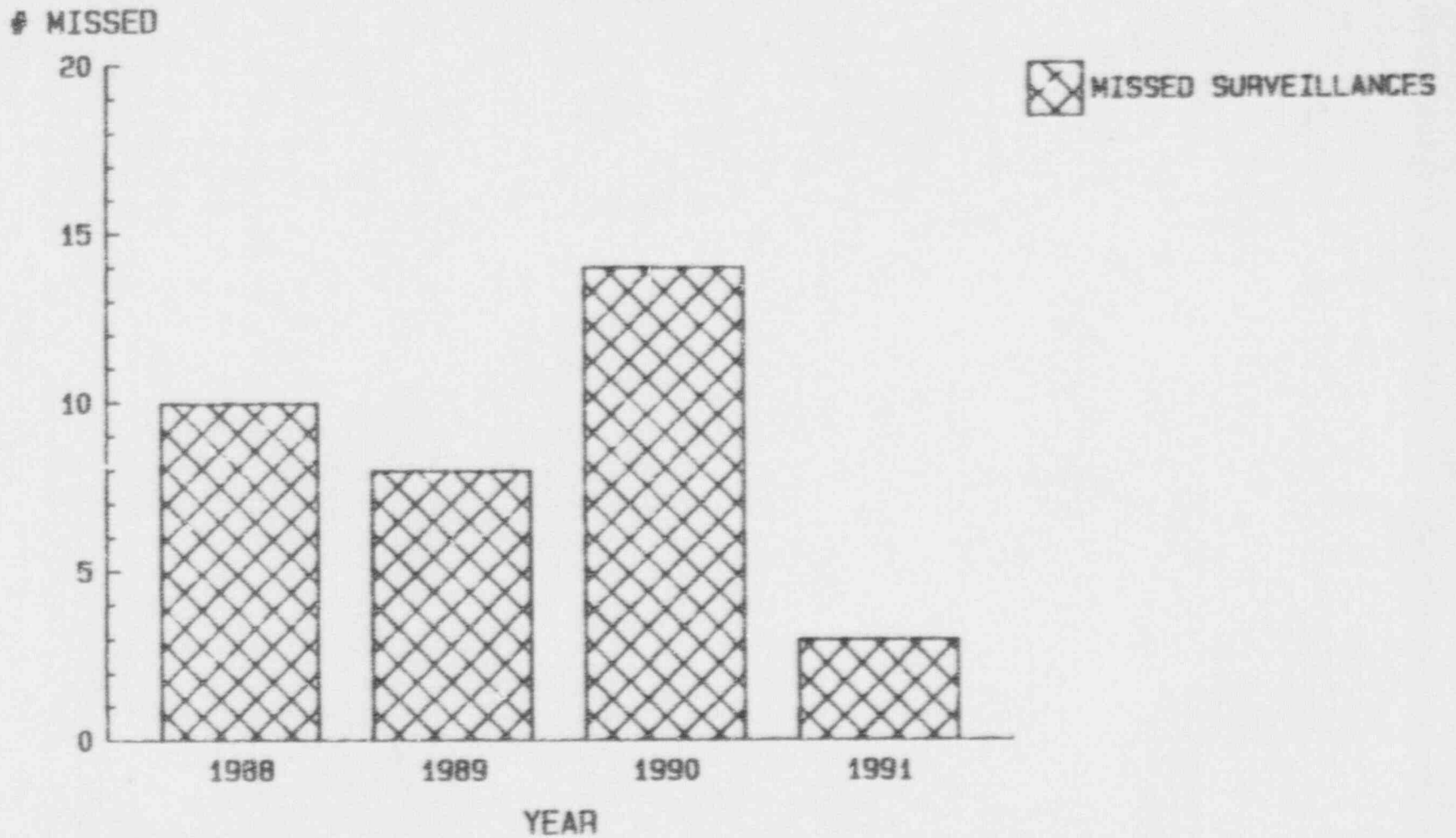
VOGTLE UNIT 1 THIRD REFUELING OUTAGE "AS-BUILT" VS ORIGINAL SCHEDULE



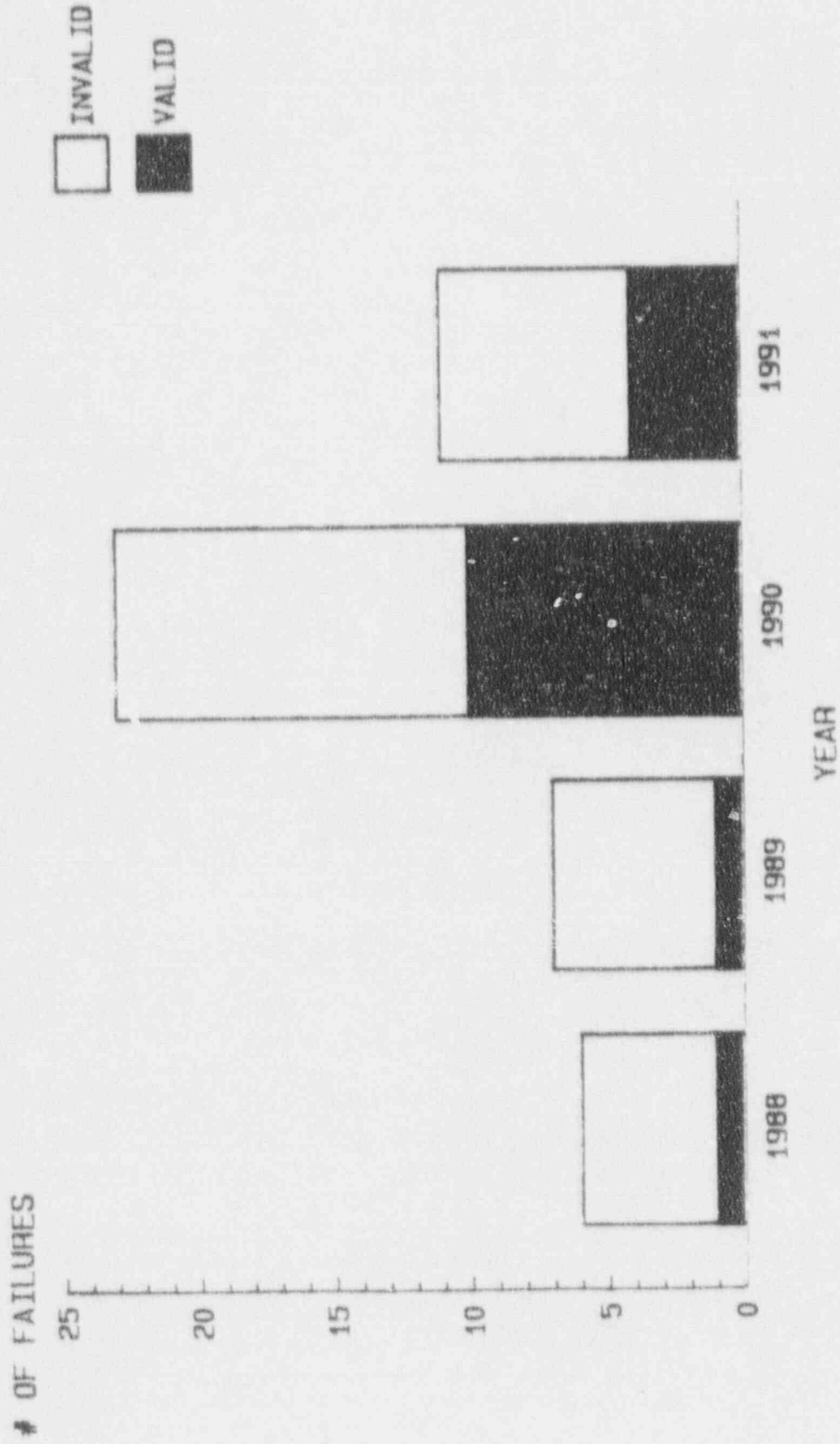
ORIGINAL SUMMARY



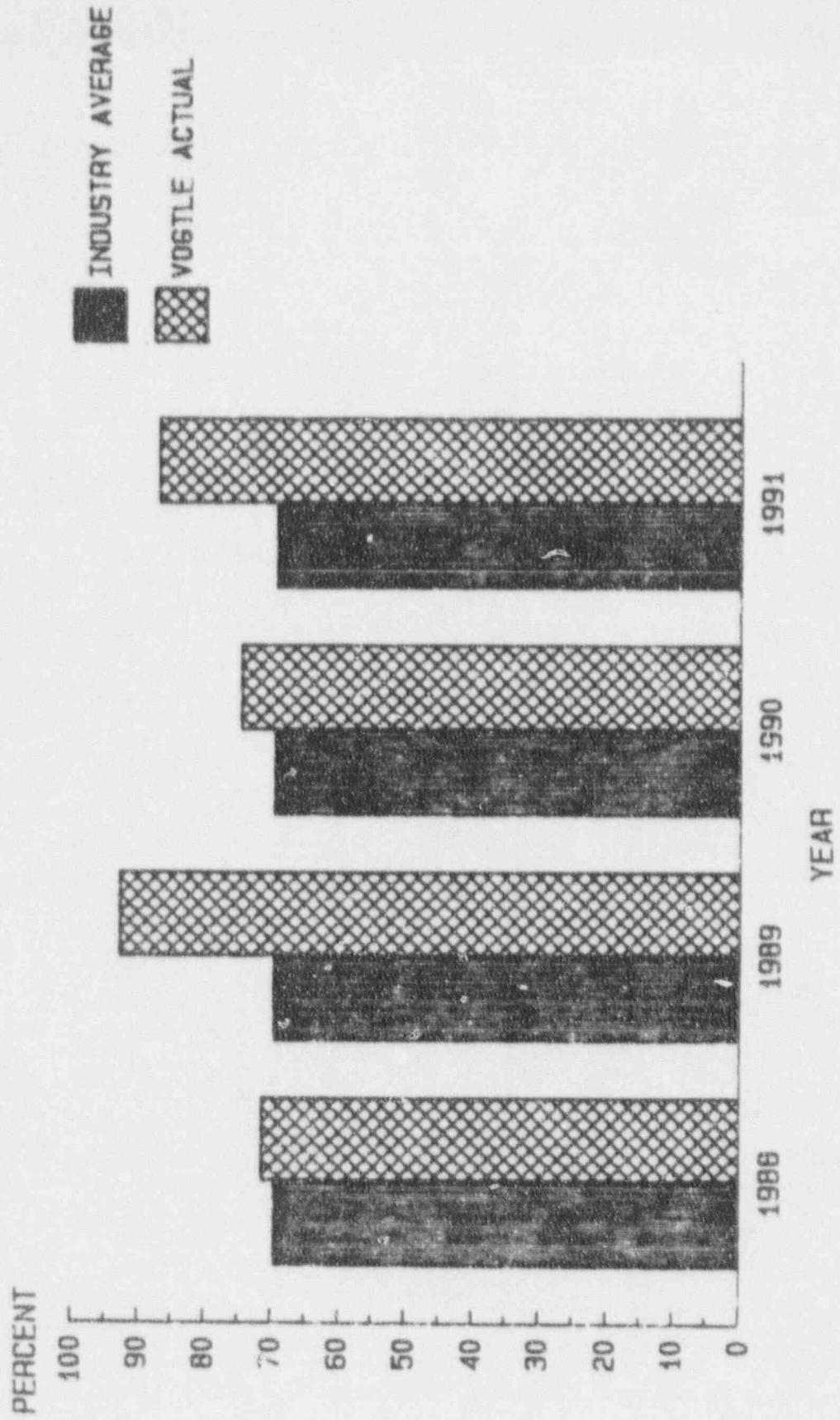
PLANT VOGTLE - AEOD EVENTS
MISSED TECH. SPEC. SURVEILLANCE
LER'S



DIESEL GENERATOR FAILURES (VALID/INVALID)

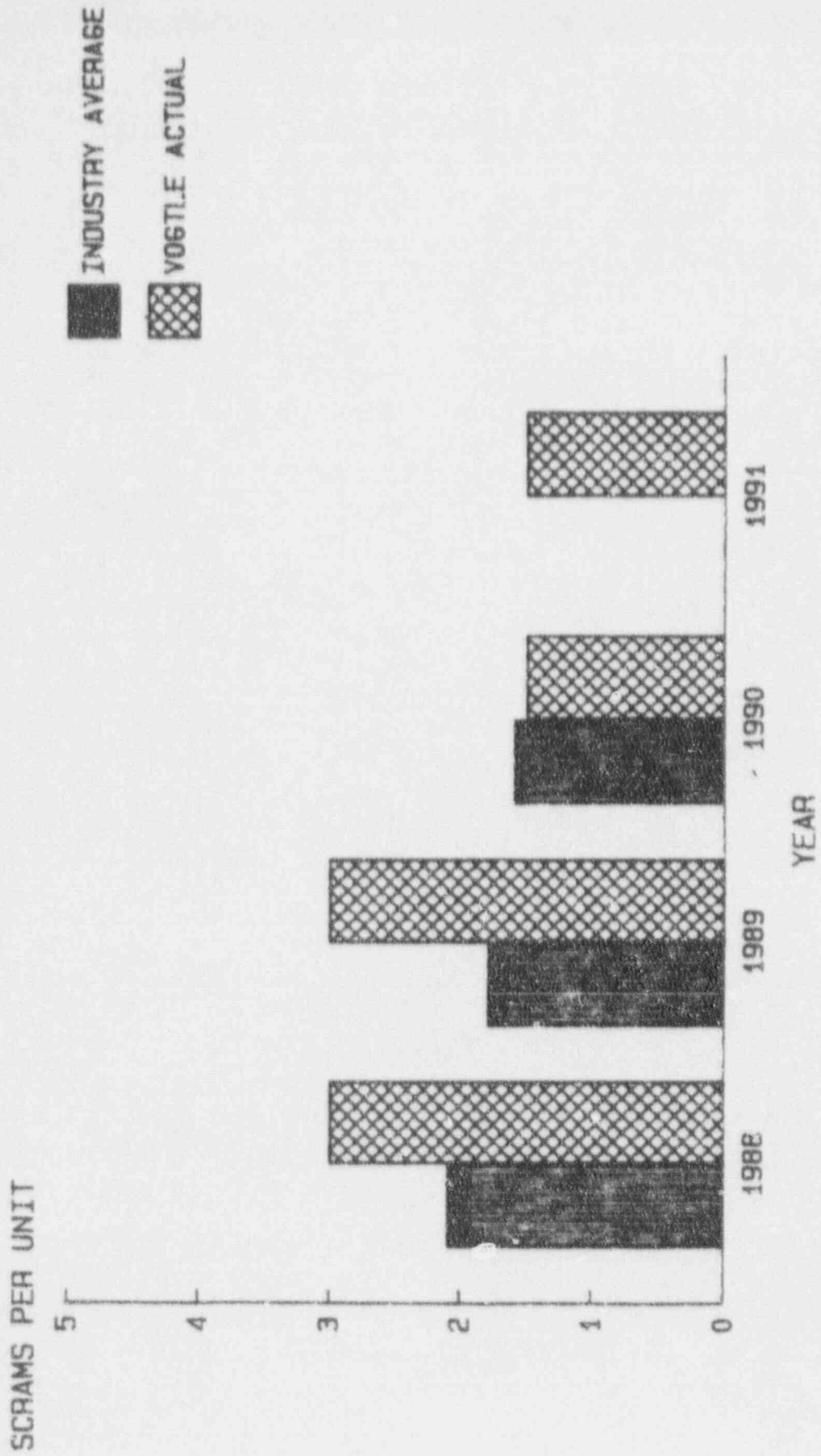


PLANT VOGTLE CAPACITY FACTOR



91 INDUSTRY AVG FOR WESTINGHOUSE PWR'S THRU 6/91
CAPFACT

UNPLANNED AUTOMATIC SCRAMS (REACTOR TRIPS)



PLANT VOGTLE FORCED OUTAGE RATE

PERCENT

15
10
5
0

INDUSTRY MEDIAN
VOGTLE ACTUAL

1988

1989

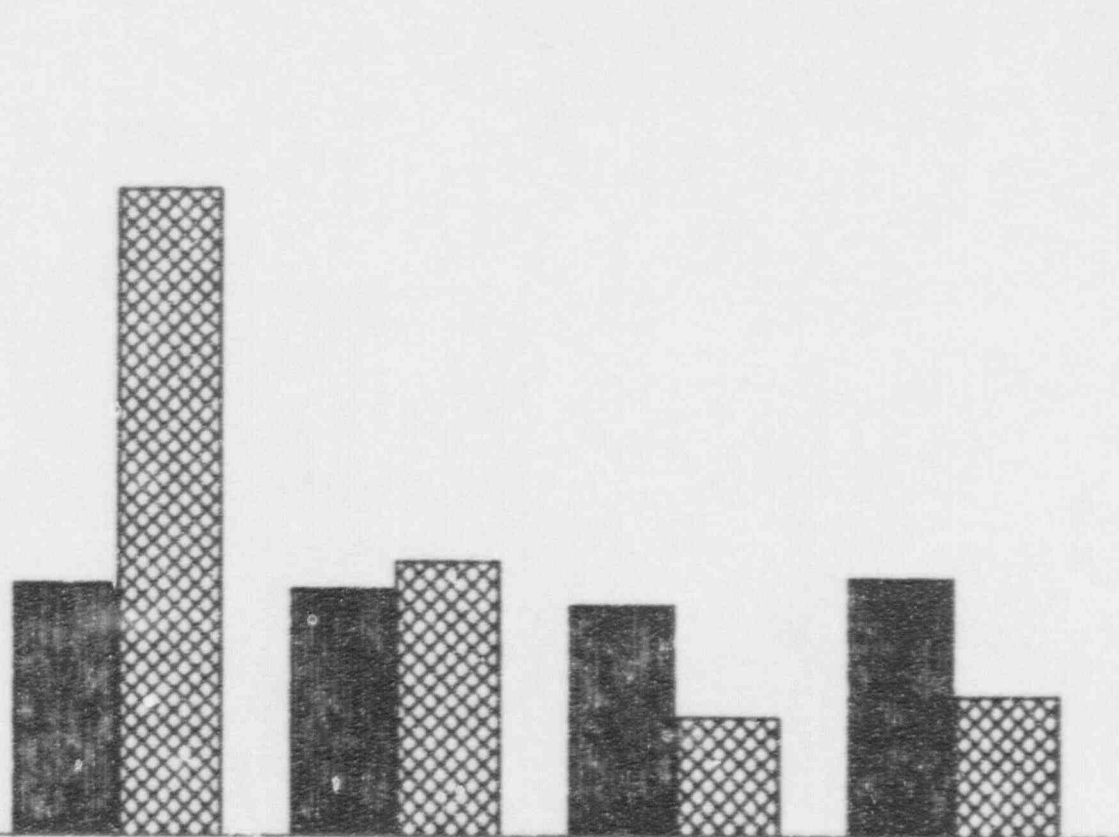
1990

1991

YEAR

1991 INDUSTRY MEDIAN THRU 6/91


FORCE



PLANT VOGTLE - AEOD EVENTS ESF ACTUATIONS

OF EVENTS

25
20
15
10
5
0

 ESF ACTUATIONS

1988

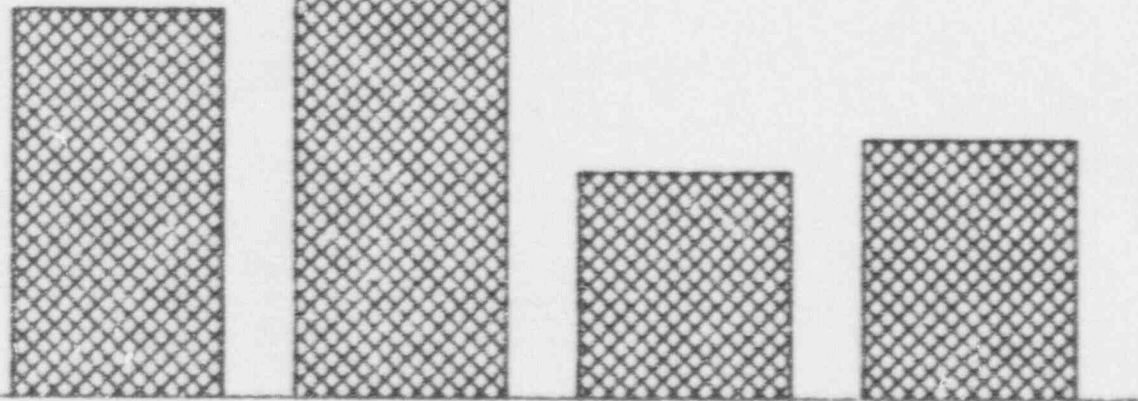
1989

1990

1991

YEAR

AE005A



IDENTIFICATION OF OPERABILITY ISSUES

- SURVEILLANCES/TESTING
- PLANT OPERATORS
- PLANT WALKDOWNS/ROUNDS
- INDUSTRY/VENDOR COMMUNICATIONS
- ENGINEERING STUDIES
- DEFICIENCY REPORTING SYSTEM

REPORTING AND EVALUATING DEFICIENCIES

- DIRECT NOTIFICATION TO CONTROL ROOM/USS
- DC CARD DELIVERED TO CONTROL ROOM UPON DISCOVERY
- PROMPT EXAMINATION BY USS FOR OPERABILITY REPORTABILITY
- MOST DETERMINATIONS IMMEDIATE
- PROMPT PRELIMINARY DETERMINATION BY CR
- MANAGEMENT AND TECHNICAL ASSISTANCE
- TECH SPEC ACTIONS, LCO'S, COMPENSATORY ACTION DOCUMENTED
- SITE DISPOSITION ASSIGNED
- ENGINEERING ANALYSIS - ON/OFF SITE
- ROOT CAUSE AND CORRECTIVE ACTION DETERMINATIONS
- INDEPENDENT REVIEWS FOR REPORTABILITY

ELEMENTS OF OPERABILITY DECISION

CONSIDERATIONS

- TECHNICAL SPECIFICATION REQUIREMENTS
- SURVEILLANCE STATUS
- ENVIRONMENTAL QUALIFICATION
- CODE/FSAR REQUIREMENTS
- SAFETY FUNCTIONS AND ANALYSIS
- ADDITIONAL TESTING OR ANALYSIS
- SUPPORT SYSTEM STATUS

TIMING

- DECISIONS PROMPT
- QUESTIONS/ENGINEERING ANALYSIS COMMENSURATE WITH SAFETY SIGNIFICANCE
- IF USS DOESN'T HAVE REASONABLE BASIS FOR OPERABLE DETERMINATION, COMPONENT WILL BE DECLARED INOPERABLE
- CORRECTIVE ACTIONS PROMPT TO MAINTAIN SAFETY SYSTEM AVAILABILITY

JCO'S

- OCCASIONALLY USED FOR ENVIRONMENTAL QUALIFICATIONS NONCONFORMANCES BASED ON ENGINEERING SAFETY ANALYSIS

LCO/TS RELIEF

- SUBMIT TO NRC/REGION II

ACTIVITIES BEING PURSUED

POWER RERATE

- INCREASE THERMAL OUTPUT BY APPROXIMATELY 54MW
- TAKE ADVANTAGE OF EXISTING ANALYSES PERFORMED IN VANTAGE 5 FUEL PROGRAM FOR INCREASED OPERATING MARGIN
- SUBMITTAL EXPECTED IN 1992

TECH. SPEC. CHANGE FOR LCO AND SURVEILLANCE APPLICABILITY

- GENERIC LETTER 87-09 ADDRESSES IMPROVEMENTS TO SPECIFICATION SECTIONS 3.0 AND 4.0
- ELIMINATES UNNECESSARY RESTRICTIONS ON MODE CHANGES
- ADDRESSES INADVERTENTLY MISSED SURVEILLANCES

RADIOLOGICAL EFFLUENT TECH. SPEC. (RETS)

- GENERIC LETTER 89-01 ADDRESSES LINE-ITEM IMPROVEMENT TO TECH. SPECS.
- RELOCATES PROCEDURAL DETAILS ASSOCIATED WITH RETS TO OFFSITE DOSE CALCULATION MANUAL (ODCM) AND PROCESS CONTROL PROGRAM (PCP)
- SIMPLIFIES REPORTING REQUIREMENTS AND ADMINISTRATIVE CONTROLS

TECH. SPEC. CHANGE FOR TURBINE OVERSPEED PROTECTION SYSTEM VALVE SURVEILLANCE

- GE RECOMMENDATION
- ALLOWS INSPECTION OF ALL VALVES OF THE SAME TYPE DURING AN OUTAGE

ADD TECH. SPEC. FOR SEQUENCER

- ELIMINATES CONFUSION ON SEQUENCER OPERABILITY REQUIREMENTS

I

FOR RCS THERMAL DESIGN FLOWRATE

- MAINTAIN A MARGIN BETWEEN ACTUAL FLOWRATE AND DESIGN
- OFFSET ANY REDUCTION IN FLOW DUE TO DIRECT RTD MEASUREMENT

LICENSING ACTIVITIES RECENTLY APPROVED

VANTAGE 5 TECH. SPEC. CHANGES

- INCREASED DNB MARGIN
- EXTENDED BURNUP
- OPERATIONAL FLEXIBILITY - RAOC

RTD BYPASS ELIMINATION TECH SPEC CHANGE

- ALARA SAVINGS
- REDUCED OUTAGE TIME

SNUBBER VISUAL INSPECTION TECH. SPEC. CHANGE

- REDUCES OVERLY RESTRICTIVE INSPECTION SCHEDULE-NOW RELATED TO CATEGORIES
- REDUCTION IN UNNECESSARY RADIOLOGICAL EXPOSURE
- ALLOWS INSPECTIONS AND CORRECTIVE ACTIONS TO BE PERFORMED DURING OUTAGES

ZIRLO TECH. SPEC. CHANGE

- ALLOWS USE OF TWO FUEL ASSEMBLIES EACH CONTAINING UP TO 12 FUEL RODS CLAD WITH ZIRLO
- POTENTIAL REDUCTION IN CORROSION EFFECTS WITH ZIRLO

STEAM GENERATOR LEVEL TAP CHANGE (BOTH UNITS)

- LESS SHRINK/SWELL EFFECTS
- USER FRIENDLY TO OPERATORS
- FEWER LEVEL TRIPS EXPECTED

OTHER ACTIVITIES

- SNUBBER REDUCTION COMPLETE
- MSIV ROOM HVAC
- PLANT COMPUTER UPGRADES
- CONFIGURATION MANAGEMENT
 - USER FRIENDLY LOAD LIST
 - FUSE/LINK DATA BASES
 - MUCK EDSFI
- VOGTLE IPE