

NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

May 31, 1994

MEMORANDUM FOR:

Steven A. Varga, Director

Division of Reactor Projects, I/II

FROM:

Jose Calvo, Assistant Director

for Region I Reactors

Division of Reactor Projects, I/II

SUBJECT:

SUMMARY OF ANNUAL MEETING WITH ABB-CE OWNER'S GROUP

On May 11, 1994, Nuclear Regulatory Commission (NRC) staff met with the members of the ABB-CEOG executive committee and members of the ABB-CEOG committee at the NRC Headquarters in Rockville, Maryland. The purpose of the meeting was to review the status of all activities and communications between NRC and ABB-CEOG during the past year and to discuss future actions. Enclosure 1 is a list of meeting attendees.

The ABB-CEOG provided an overview of its ongoing programs and discussed the status of the activities of Shutdown Issues Working Group, Licensing Subcommittee, and Alloy 600 Working Group. As requested by ABB-CEOG, NRC provided a summary of the status of its activities related to cost beneficial licensing activity (CBLA) and license renewals.

During 1994 ABB-CEOG will emphasize responding to NRC safety concerns, obtaining NRC approval of various submittals, evaluating generic implications of emerging issues as they pertain to CE plants, and continuing to facilitate effective industry communication.

ABB-CEOG indicated that it has prioritized its topical reports under NRC review to ensure that the resources are expended efficiently and appropriate actions are taken to facilitate closure of pending issues. ABB-CEOG then provided status of six highest priority topical reports, and discussed its recommendations for further actions.

Enclosure 2 provides the view graphs used by ABB-CEOG for its presentation. Enclosure 3 provides the slides that were used by NRC for its presentation of CBLA status.

ILES .

RD-8-2-CE X-ID+R-5-FACILITY LIC X-RD-10-1

100099 RETURN TO REQULATORY CENTRAL FILE

D6031.

Re: Annual ABB-CE Meeting Page -2-

Meeting adjourned, with both NRC and ABB-CEOG agreeing that the meeting served a very useful purpose of promoting communication between NRC and ABB-CEOG. NRC was particularly appreciative of ABB-CEOG prioritization activities and their beneficial effect on limited NRC resources.

original signed by

Jose Calvo, Assistant Director
for Region I Reactors
Division of Reactor Projects, I/II

DISTRIBUTION
WRussell
FMiraglia
LReyes
AThadani
All DDs and ADs
Meeting attendees
PDR
Central File
DRPE File

1	-							-	
TATORPE	DRPE/AD MAN		and the second second second second					-	
MThadani	JCalvo ///								
5 /27/94	5 /27/94	1	/94	1	/94	/	/94	1	/94

OFFICIAL RECORD COPY FILENAME: P:\ABB-CEOG

Re: Annual ABB-CE Meeting Page -2-

Meeting adjourned, with both NRC and ABB-CEOG agreeing that the meeting served a very useful purpose of promoting communication between NRC and ABB-CEOG. NRC was particularly appreciative of ABB-CEOG prioritization activities and their beneficial effect on limited NRC resources.

Jose Calvo, Assistant Director for Region I Reactors

Fre a. Calvo

Division of Reactor Projects, I/II

COMBUSTION ENGINEERING OWNER'S GROUP MEETING MAY 11, 1994

NAME

ORGANIZATION

NRC Mohan Thadani NRC Bruce Boger ABB-CE Richard Sindek Maine Yankee Charles Frizzle Florida Power & Light David Sager Brian Sheron Energy Operations - Waterford 3 Raymond Burski ABB-CE (CEOG) Gordon Bischoff NRC Scott Newberry NRC Jose A. Calvo NRC Luis A. Reyes NRC Frank J. Miraglia BGE George C. Creel EOI Ross P. Barkhurst NU Eric A. DeBarba EOI Jerry W. Yelverton James D. Alderink CPCO BGE Gary Detter ABB-CE Paul Hijeck NU Gerry van Noordennen So. Cal Edison Co. David F. Pilmer O.P.P.D. Ralph L. Phelps NRC Keith R. Wichman NRC Timothy Collins ABB-CE William A. Goodwin ABB-CE Philip Richardson NEI Arland MacKinney Ariz. Public Service Michael Melton NRC Ed Butcher NRC William Beckner NRC S.A. Varga NRC M. Virgilio

CEOG/NRC MEETING

MAY 11, 1994

ENCLOSURE 2



CEOG/NRC MEETING

MAY 11, 1994



AGENDA

1:30 pm OPENING STATEMENTS

Steven Varga (NRC)

Dave Sager (FPL)

Ray Burski (Entergy)

1:45 pm ACTIVITY REPORTS

SHUTDOWN ISSUES WORKING GROUP / Gary Detter (BG&E)

LICENSING SUBCOMMITTEE / Gerry van Noordennen (NU)

ALLOY 600 WORKING GROUP / Mike Melton (APS)

3:00 pm NRC DISCUSSION TOPICS - Staff (NRC)

3:25 pm REVIEW OF ACTION ITEMS - CEOG and NRC

3:30 pm ADJOURN



OPENING REMARKS

- INTRODUCTIONS
- MEETING OBJECTIVES
- REVIEW INTERACTION BETWEEN CEOG AND NRC

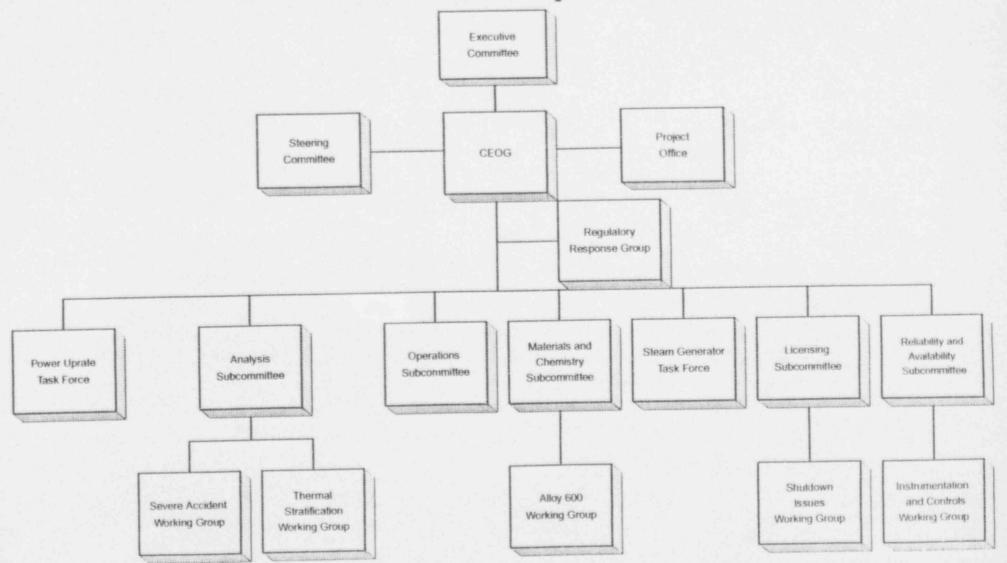


MEETING OBJECTIVES

- FACILITATE COMMUNICATIONS
- SUMMARIZE ACTIVE CEOG PROGRAMS
- REVIEW STATUS OF CEOG SUBMITTALS
- DISCUSS ISSUES OF CONCERN TO THE NRC



Combustion Engineering Owners Group - 1994



CEOG EXECUTIVE COMMITTEE MEMBERS

DAVE SAGER (FPL) - CHAIRMAN

CHARLES FRIZZLE (MY) - VICE CHAIRMAN

JIM LEVINE (APS)

ROSS BARKHURST (Entergy

- WSES)

GEORGE CREEL (BG&E)

ERIC DeBARBA (NU)

BOB FENECH (CPC)

GARY GATES (OPPD)

JERRY YELVERTON (Entergy - ANO)

DICK ROSENBLUM (SCE)

RICHARD SIUDEK (ABB)



CEOG COMMITTEE MEMBERS

RAY BURSKI (Entergy - WSES) - CHAIRMAN **

JIM ALDERINK (CPC) - VICE CHAIRMAN **

DICK BERNIER (APS)

RIK WELLS (NU)

JIM LIPPOLD (BG&E)

RALPH PHELPS (OPPD) **

RICK ESPOLT (ENTERGY - ANO)

DAVE PILMER (SCE)

JOHN HUTCHINSON (FPL) **

JIM HEBERT (MY)

BILL GOODWIN (ABB)

** STEERING COMMITTEE



C-E OWNERS GROUP MAJOR EMPHASIS FOR 1994

- RESPOND TO NRC SAFETY CONCERNS
- SUPPORT NEI INITIATIVES
- SUPPORT LOW CEOG PLANT TRIP RATE
- OBTAIN NRC APPROVAL OF VARIOUS CEOG SUBMITTALS
- EVALUATE GENERIC IMPLICATIONS OF EMERGING ISSUES FOR CEOG PLANTS
- CONTINUE TO FACILITATE EFFECTIVE INDUSTRY COMMUNICATION
- PURSUE NEW PROGRAMS TO SHORTEN OUTAGE DURATION AND REDUCE OUTAGE RISK
- PURSUE NEW PROGRAMS THAT REDUCE OPERATIONS AND MAINTENANCE COSTS



PRIORITY OF CEOG TOPICAL REPORTS UNDER NRC REVIEW (IN PRIORITY ORDER)

Number	Title	Important Dates/Status		
CEN-420-P	"Small Break LOCA Realistic Evaluation Model"	Application: 3/5/93 Status: Review delayed to FY95 CEOG Priority: High Requested Action: Increase priority		
CEN-403	"ESFAS Subgroup Relay Test Interval Extension"	Application: 7/31/91 Status: Second RAI 2/11/94 CEOG Priority: High Requested Action: (1) CEOG Respond to RAI 6/94 (2) NRC Resume Review		
CEN-405 (P) Revision 2 (P)	"Application of Reactor Vessel Surveillance Data of Embrittlement Management"	Application: 12/6/91 Status: NRC RAI: 01/29/92. Review on hold since 08/06/93 CEOG Response CEOG Priority: High Requested Action: Resume review		



PRIORITY OF CEOG TOPICAL REPORTS UNDER NRC REVIEW (cont) (IN PRIORITY ORDER)

Number	Title	Important Dates/Status				
CEN-404	"Leak-Before-Break Evaluation of Main Steam Line Piping"	Application: 07/02/91 Status: Low NRC priority CEOG Priority: High Requested Action: Begin review				
CEN-381-P	"Low Temperature Overpressure Protection P-T Setpoints"	Application: 1/12/89 Status: Review halted as result of approval of ASME XI Code Case N-514 CEOG Priority: Medium Requested Action: Issue SER				
CEN-152 Revision 3	"C-E Emergency Procedure Guidelines"	Application: 09/18/87 Status: Review Complete CEOG Priority: Low Requested Action: Issue SER				



SHUTDOWN ISSUES WORKING GROUP GARY DETTER (BG&E) CHAIRMAN

PRIMARY OBJECTIVE

SHUTDOWN RULEMAKING

NRC CONTACT: R. JONES

- TO WORK WITH THE NRC TO REALIZE PERFORMANCE BASED SHUTDOWN SAFETY APPROACH WITHOUT PRESCRIPTIVE REGULATION
 - CEOG RECOGNIZES AND AGREES WITH SAFETY GOALS FOR SHUTDOWN OPERATIONS
 - CURRENT PROPOSED APPROACH DOES NOT ACHIEVE DESIRED RESULTS FOR BOTH SAFETY AND COST EFFECTIVENESS



SHUTDOWN ISSUES WOPKING GROUP

- CEOG WISHES TO WORK WITH THE NRC STAFF TO STRENGTHEN AND INSTITUTIONALIZE EXISTING SAFETY PROGRAMS
- BOTH PERFORMANCE BASED FLEXIBILITY AND IMPROVED SAFETY ARE POSSIBLE
- RECOMMENDATIONS
 - CONSIDER INDUSTRY ACTIONS TO IMPROVE OUTAGE SAFETY
 - INCREASE RIGOR OF REGULATORY ANALYSIS TO SUPPORT ANY RULEMAKING
 - IF ADDITIONAL REGULATION IS JUSTIFIED, CONSIDER LESS PRESCRIPTIVE MEANS THAN TECHNICAL SPECIFICATIONS



ALLOY 600 WORKING GROUP

MIKE MELTON (APS) CHAIRMAN

PRIMARY OBJECTIVE

PWSCC OF ALLOY 600 CEDM PENETRATIONS

NRC CONTACT: BOB HERMANN

- CEOG HAS WORKED WITH NEI AHAC TO ADDRESS SAFETY SIGNIFICANCE FOR U.S. PLANTS
 - CEOG SAFETY EVALUATIONS, SUBMITTED TO NRC BY NEI, HAVE DEMONSTRATED THAT ID OR OD INITIATED PWSCC OF CEDM NOZZLE PENETRATIONS IS NOT AN IMMEDIATE SAFETY ISSUE
- THERE IS REASONABLE ASSURANCE THAT IF CRACKS DEVELOP AND PROGRESS THROUGH WALL, LEAKAGE WILL BE DETECTED BEFORE CHALLENGING CODE LIMITS ON THE VESSEL HEAD



ALLOY 600 WORKING GROUP (CONT)

- PWSCC OF ALLOY 600 CEDM PENETRATIONS (CONT)
 - CEOG HAS SUPPORTED INDUSTRY NDE QUALIFICATION AND DEVELOPMENT OF FLAW ACCEPTANCE CRITERIA
 - CEOG HAS PREPARED INSPECTION GUIDELINES AND HAS EVALUATED MITIGATION AND REPAIR TECHNIQUES FOR CEOG PLANTS
 - INSPECTION GUIDELINES ARE BASED ON CEOG SUSCEPTIBILITY MODEL
 - CEOG WILL CONTINUALLY EVALUATE FINDINGS AND PROGRESS WITH RESPECT TO INSPECTION, MITIGATION AND REPAIR ISSUES



ALLOY 600 WORKING GROUP (CONT)

- PWSCC OF ALLOY 600 CEDM PENETRATIONS (CONT)
 - CEOG AND ABB ARE DEVELOPING A WELD REPAIR CAPABILITY IN THE UNLIKELY EVENT THAT DEEP CRACKS ARE FOUND AT A CEOG PLANT
 - CEOG BELIEVES THAT NEI AHAC AND NRC COOPERATION HAS BEEN SUCCESSFUL IN MOVING TOWARD CLOSURE ON CEDM CRACKING



LICENSING SUBCOMMITTEE

GERRY VAN NOORDENNEN (NU) CHAIRMAN

PRIMARY ACTIVITIES

- RESTRUCTURED STANDARD TECHNICAL SPECIFICATIONS
 - NRC CONTACT: C. Grimes
 - SCE LEAD PLANT APPLICATION / INDUSTRY MAINTENANCE OF RSTS
- ESFAS SUBGROUP RELAY SURVEILLANCE TEST EXTENSION NRC CONTACT: J. VERMEIL
 - REVIEWING LATEST AEOD REPORT ON MDR RELAY FAILURES
 - PROVIDE ADDITIONAL SUBMITTAL ON PROCUREMENT AND TESTING CONTROLS



LICENSING SUBCOMMITTEE (CONT)

- NUREG 1366, LINE ITEM IMPROVEMENTS
 - RADIATION MONITOR SURVEILLANCE EXTENSION
 - REACTOR TRIP BREAKER SURVEILLANCE EXTENSION
- NATURAL CIRCULATION DECAY HEAT REMOVAL IN MODES 3
 & 4
 - DEVELOPING JUSTIFICATIONS FOR TECHNICAL SPECIFICATION BEYOND CURRENT GUIDANCE
 - ESTABLISH EQUIPMENT REQUIREMENTS AND PLANT CONDITIONS
 - PROVIDES INCREASED SAFETY AND ECONOMIC SAVINGS



LICENSING SUBCOMMITTEE (CONT)

- CREDIT FOR SOLUBLE BORON IN SPENT FUEL POOL ANALYSIS

 NRC CONTACT: L. Phillips
 - FOCUS IS ON NO REDUCTION IN SAFETY MARGIN (i.e. Maintain 5% Subcriticality Under Normal Operations)
 - Credit For 225 ppm Boron
 - SFP Normally at 1800 ppm Boron
 - METHOD BASED UPON REVISED CRITERIA FOR ACCIDENT CONDITIONS USING FOR DRY STORAGE CRITERIA
 - Keff = 0.98
 - APPROACH DEEMED VIABLE BY NRC AT 11/94 MEETING VERSUS CREDIT FOR LARGE AMOUNTS OF SOLUBLE BORON
 - ECONOMIC BENEFITS



LICENSING SUBCOMMITTEE (CONT)

• INSTRUMENT UNCERTAINTIES IN EOPs AND TECHNICAL SPECIFICATIONS (non RPS/ESFAS)



OTHER CEOG ACTIVITIES

(FOR REFERENCE ONLY)



STEAM GENERATOR TASK FORCE

- CEOG FORMED THIS TASK FORCE IN FEBRUARY
- MISSION OF TASK FORCE IS TO PROACTIVELY AND AGGRESSIVELY SEEK COST EFFECTIVE SOLUTIONS TO ISSUES WHICH CHALLENGE STEAM GENERATOR SAFETY AND RELIABILITY, AND TO REDUCE ASSOCIATED PLANT CAPITAL AND O&M COSTS.
- AMONG ITS EARLY EFFORTS, THE TASK FORCE EXPECTS TO COMPILE A COMPREHENSIVE DATABASE OF CEOG S/G MATERIALS AND OPERATING HISTORIES
- THEY WILL ALSO ADDRESS ALTERNATE PLUGGING CRITERIA AS ONE OF THEIR EARLY EFFORTS



ANALYSIS SUBCOMMITTEE JOE MIHALCIK (BG&E) CHAIRMAN

PRIMARY ACTIVITIES

- SMALL BREAK LOCA MARGIN IMPROVEMENT PROGRAM
 NRC CONTACT: Frank Orr
- GENERIC EVALUATION OF LOW UPPER SHELF ENERGY

 NRC CONTACT: Keith Wichman/ E. Hackett
- INCORE INSTRUMENT LIFE EXTENSION
- CEA LIFE LIMIT CRITERIA



THERMAL STRATIFICATION WORKING GROUP JEFF BROWN (APS) CHAIRMAN

PRIMARY ACTIVITIES

- SUPPORT OF EPRI THERMAL STRATIFICATION, CYCLING AND STRIPING (TASCS) PROGRAM
- MODELING AND EVALUATION OF THERMAL STRESSES IN PIPING CONNECTED TO THE RCS

NRC. CONTACT: Mark Hartzman

SURGE LINE DOCUMENTATION UPDATE



SEVERE ACCIDENT WORKING GROUP ALLAN HACKEROTT (OPPD) CHAIRMAN

PRIMARY ACTIVITIES

- IPE APPLICATIONS
 - ESTABLISH FORMAT AND CONTENT FOR CEOG SUBMITTALS
 - INITIAL FOCUS ON DIESEL GENERATOR AND ECCS

AOTs

STIS



SEVERE ACCIDENT WORKING GROUP (CONT)

• SEVERE ACCIDENT MANAGEMENT GUIDANCE (SAMG)
DEVELOPMENT

NRC CONTACT: R. Palla

- GL 88-19, STEAM GENERATOR OVERFILL PROTECTION

 NRC CONTACT: S. Newberry/ S. Rhow
- SEVERE ACCIDENT MANAGEMENT TRAINING



RELIABILITY AND AVAILABILITY SUBCOMMITTEE LINDY BRAMLETT (ENTERGY OPERATIONS - ANO), CHAIRMAN

PRIMARY ACTIVITIES

- COMPLETED PROGRAM TO OPTIMIZE REACTOR VESSEL HEAD BOLT-UP SEQUENCE
 - REDUCED TENSIONING PASSES FROM 21/2 TO 11/4
- CHARGING PUMP PACKING AND PLUNGER OPTIMIZATION PROGRAM
 - IN PLANT TESTING OF VARIOUS COMBINATIONS OF PACKING MATERIAL AND PLUNGER COATINGS TO DETERMINE OPTIMAL COMBINATION



INSTRUMENTATION AND CONTROLS WORKING GROUP TIBBS GOLLADAY (ENTERGY OPERATIONS - WATERFORD) CHAIRMAN

PRIMARY ACTIVITIES

- PROGRAM TO ELIMINATE TIME RESPONSE TESTING REQUIREMENTS FOR CERTAIN PRESSURE AND △ PRESSURE TRANSMITTERS
 - AWAITING OUTCOME OF BWROG/NRC INTERACTION
- CEOG, ABB, AND EPRI WORKING TO DEVELOP A PROGRAM TO ADDRESS I&C SYSTEM OBSOLESCENCE
 - STARTING WITH REACTOR PROTECTION SYSTEM



MATERIALS AND CHEMISTRY SUBCOMMITTEE SCOTT BOGGS (FPL), CHAIRMAN

PRIMARY ACTIVITIES

- CONTINUING CEOG PROGRAM ON CREVICE CHEMISTRY TO VALIDATE NEUTRAL CREVICE RULES DEVELOPED IN 1993
- REACTOR PRESSURE VESSEL EMBRITTLEMENT PROGRAM TOPICAL REPORT: CEN-405-P

NRC CONTACT: S. SHENG

• DEMONSTRATING ACCEPTABLE MARGIN FOR REACTOR VESSEL TOUGHNESS



MATERIALS AND CHEMISTRY SUBCOMMITTEE (CONT)

- CEOG METHODOLOGY JUSTIFIES TWO ALTERNATIVE APPROACHES
 - INTEGRATED SURVEILLANCE
 - ADJUSTING CHEMISTRY FACTOR AND MARGIN USING DATA FROM A "HOST" C-E MANUFACTURED VESSEL CONTAINING CONTROLLING MATERIAL FROM THE SUBJECT VESSEL
 - MARGIN REDUCTION
 - ADJUSTING MARGIN USING CREDIBLE PLANT SPECIFIC DATA
- CEOG AWAITS NRC SER ON CEN-405-P REVISION 2-P



OPERATIONS SUBCOMMITTEE JEFF WEST (FPL) CHAIRMAN

PRIMARY ACTIVITIES

- MAINTENANCE OF EMERGENCY PROCEDURE GUIDELINES (EPG)
- EPG SER CLOSURE ACTIVITIES

NRC CONTACT: Warren Lyon

OUTAGE IMPROVEMENTS



OPERATIONS SUBCOMMITTEE (CONT)

- SIMULATOR SCENARIO CRITICAL TASKS BASED UPON EPGs
 - USES NUMARC/NRC APPROACH UNDERTAKEN BY OTHER OWNERS GROUPS
 - ESTABLISHES CONSISTENT JUSTIFICATION FOR CRITICAL TASKS
 - IMPROVED TRAINING



CBLA BACKGROUND

- April 1993 CBLA Task Force Established
- June 1993 Revised Priority Determination
- September 1993 Murley Memo on CBLAs
- December 1993 CBLA Task Force Report Issued
- February 1994 Varga Memo on CBLA Tracking,
 New PA Number
- Guidance to Licensees Planned

CBLA GROUP FUNCTIONS

- Provide Focal Point Roy Zimmerman
- Screen and Track CBLAs Provide Reports to Russell/EDO/Commission
- Interact with TS Screening Panel Panel to Identify Generic CBLAs
- Attend Periodic Meetings with Licensees to Discuss CBLA Programs
- Be Involved in Problem CBLA Issues

CBLA DEFINITION

- Initiated By Licensee and Identified as CBLA
- High Quality Submittal Sufficient Basis for High Cost/Low Safety Determination
- Prioritized with All Other Licensing Actions
- Is Not Priority 1 or 2
- Result in at least \$100,000 Savings in O&M Costs and/or Capital Expenses Over Life of Plant
- May Be Generic or Plant-Specific

LICENSEE ACTIONS

- Discuss CBLA Program with NRC
- Prioritize CBLAs with Other Licensing Activities
- Work with NRC to Determine Priority Based on:
 Degree of Difficulty
 Regulatory Vehicle Needed (Amendment, Rulemaking)
 Cost
- High Quality Submittals which Support High Cost/Low Safety Determination
- Include Cost Information
- No Automatic Approval for CBLA Still Has to Meet Technical Acceptance Criteria