

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

#### AUG 17 1978

MEMORANDUM FOR: CW. MORRIS, ASSISTANT DIRECTOR, DES, SD

FROM:

D. E. EISENHUT, ASSISTANT DIRECTOR, S&P, DOR, NRR

SUBJECT:

REVIEW OF IEEE STANDARD 567, DRAFT 4G,

Dated May 15, 1978

Standard Title:

Criteria for the Design of the Control Room Complex for a Nuclear

Power Generating Station

Standard Number:

IEEE Standard 567, Draft 4G,

dated May 15, 1978

Standard Committees:

IEEE Power Generator Committee (PGC)

IEEE Nuclear Power Engineering

Committee (NPEC)

Regulatory Committee Members:

D. Tondi, PGC

D. Sullivan, NPEC

Reviewing Branch:

Plant System Branch

Reviewing Status:

Complete

In accordance with your request of July 7, 1978, the Plant Systems Branch has reviewed IEEE Standard 567, Draft 4G, dated May 15, 1978. We recommend that ballot action for this standard be "Conditional Affirmative."

Enclosed are our comments requiring resolution in order to change our recommendation to "Affirmative."

for Systems and Projects
Division of Operating Reactors

Contacts:

J. Knight, 28077

M. Chiramal, 28077

cc: V. Stello

M. Chiramal

G. Lainas

J. Knight

F. Rosa

C. Miller

D. Tondi

### COMMENTS ON IEEE STD. 567, DRAFT 4G, DATED MAY 15, 1978

#### Comments whose resolution is a necessary condition for Approval

Three items on RG. 1.120 which is our guidance on new plants for fire protection have apparently not been included in this draft of the standard. We consider these to be important and should be added to the document.

 A separate cable spreading room should be provided for each redundant division of cables. Cable spreading room should not be shared between reactors. Each cable spreading room should be separated from the other and from other areas of the plant by barriers with a maximum fire rating of three hours.

The ventilation system to each cable spreading room should be designed to isolate the area upon activation of any gas extinguishing system in the area. Separate, manually actuated, smoke venting, that is operable from outside the room, should be provided for the cable spreading room.

- If redundant safe-shutdown equipment is located in the same control room cabinet or console, additional fire protection measures should be provided. Alarm and local indication should be provided in the control room.
- 3. Fully enclosed electrical raceways in underfloor and ceiling spaces, if over one square foot in cross sectional area, should have automatic fire suppression inside. Area automatic fire suppression should be provided for underfloor and ceiling space if used for cable runs unless all cabling is run in 4-inch or smaller steel conduit or the cables are in fully enclosed raceways internally protected by automatic fire suppression.

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63-109 T. S. 070: 1978-0-201-017, 3200	Prescribed	FORM 63 (Rev. 8-76) by GSA CFR) 101-11.6	



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

JUL 7 1978

MEMORANDUM FOR: S. Hanauer, TA, EDO

S. Levine, Director, RES

N. C. Moseley, Director, DROI, IE (4)

R. Mattson, Director, DSS, NRR

V. Stello, Director, DOR, NRR (2) R. S. Boyd, Director, DPM, NRR (6)

H. D. Thornburg, Director, DRCI, IE (4)

H. R. Denton, Director, DES, NRR

FROM:

G. A. Arlotto, Acting Assistant Director, DES, SD

SUBJECT:

STANDARD REVIEW REQUEST

Your assistance is requested in reviewing the enclosed document and providing me with your comments and recommendations. The following is a summary of this review request:

- 1. Standard Title: Criteria for the Design of the Control Room Complex for a Nuclear Power Generating Station
- 2. Standard Number: Proposed IEEE Standard 567, Draft 4G, dated May 15, 1978
- 3. Standard Committees: IEEE Power Generation Committee (PGC); IEEE Nuclear Power Engineering Committee (NPEC)
- 4. Regulatory Committee Members: D. Tondi, PGC; D. Sullivan, NPEC
- 5. SD Cognizant Individual: D. F. Sullivan
- 6. Requested Action: Review and comment on content and make recommendations for ballot action. If you recommend "Negative" or "Conditional Affirmative," please identify the comments requiring resolution in order to change your recommendation to "Affirmative." In the event that a portion of the standard is incorrect, misleading, or unclear, the reviewers are requested to make specific comments and propose more suitable wording.
- 7. Requested Completion Date: July 28, 1978

Dupe of (8203030010

This proposed standard has been prepared by the Nuclear 8. Background: Power Plant Control and Protection Working Group, Power Plant Control, Protection and Automation Subcommittee of PGC, in liaison with Spcommittee of NPEC. It is being balloted concurred by in PGC and NPEC.

G. A. Arlotto, Acting Assistant Director for General Engineering Standards Division of Engineering Standards Office of Standards Development

# NUCLEAR POWER ENGINEERING COMMITTEE STANDARDS PROJECT P-567

Please indicate your comments and Please (*) those that form the bas If you need added sheets, please x	sis of any negative ballot.	is provided.
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5650 NL " Activity Code R73 U.S. NUCLEAR REGULATORY COMMISSION TECHNICAL ASSIGNMENT CONTROL FORM 15 10 10 18 TY res SECTION & SEQUEST DATA SA RUMED D 6. Arlotto 107 107 178 METAL TITLE REPARENCE DESCRIPTION & MITTER TEN IFFE 567, Draft 46 - Criteria for Design of Control Room MED REQUEST CONTACT & MAXI REQUESTER'S INITIALS (ABI REQUESTING ORGANIZATION & 28 78 (AH) REQUESTING RSSB Suilivan SARGET DATE INJIAKI REQUESTING REMARKS IL mit to 120 characters (AM) STANDARDS TASK NUMBER SYSTEMS CONTROL DATA FACILITY NAME (S) (BA) DOCKET(S) FACILITY NAME(S) (BA) DOCKET(S) (4) 050-00 (2) 050-00 15) 050-00 0 050-00 16 REPORT IDENTIFICATION SYMBOL TOAL PROPRIETARY (P) ASI ADDITIONAL INFORMATION (AR) REPORT (EA) NON-PROPRIETARY VERSION (NP) MO. DAY REQUEST DATE DATE (AU) LETTER IATI SUBMIT DAY NOT ACCEPTED A WITHDRAWN MO DAY (FA) NON-PROPRIETARY REPORT TO VENDOR DATE HOLD [ SECTION IL REVIEW DATA PREPARED BY DATE Roger J. Mattson 07 19,78 PREPARED IACI ACTIVITY CLIDE (Enter an "R" for Safety Related an "E" for Environment Related or a "4" for Anteriust Related " (JNK & JOM Only Need a Check Mark) PLANT SURVEILLANCE CONTRACT MONT (18) REG. GUIDES & STD. REV. (71) ORDERS & APPROVALS INDUSTRY CODES & STD. (31) GENERIC ISSUE IMPL (41) MON-REACTOR REV (53) (73) LIC. AMEND. & T.S. (33) (42) RESEARCH ACTIVITIES (54) UNK CORRESPONDENCE SYSTEM EVAL PROGRE BURE M. S. C. DI -FK" ADSG -ADPS ADET LWRZ A001 REDA ... ASB -LWRS -DRET E. ADRS RSLB CSB ESR ETS8 PSUB LWA 018 ORBZ DSS 48 108 --ADSP GAS O# 83 PS 8 ADE CPB PS ADST ADLA -0884 -... DSEA LWRI REVIEWER'S SURNAME ICAL REVIEWER'S COMPLETION DATE BRANCH COORDINATING INITIALS . LEAD RESPONSE ICCI ESTIMATED ICDI ACTUAL Benaroya X .B cc: J. English N. Hughes V. Wilson G. Williams COPIES TO: I. REQUESTER MPA/MANAGEMENT & INFORMATION SCIENCE 3 REVIEWING BRANCH

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