

TERA

JUL 07 1980

Mr. Albert E. Hickey  
American Institutes for Research  
in the Behavioral Sciences  
41 North Road  
Bedford, Massachusetts 01730

Dear Mr. Hickey:

I am pleased to answer your letter dated May 29, 1980, addressed to Mr. Darrell G. Eisenhut, Director, Division of Licensing, in which you asked for certain information concerning emergency response facilities at reactor sites.

Responding to your request, we are enclosing a copy of the April 25, 1980 letter from Mr. Eisenhut to all power reactor licensees. That letter provided clarification of our requirements for the three emergency response facilities, including the Technical Support Center (TSC), as previously defined in Mr. Eisenhut's letter dated September 13, 1979, to all "Operating Nuclear Power Plants."

You have also asked if power plants other than Yankee-Rowe have received approval to use closed-circuit television as a communication link between the Control Room and the TSC. It should be noted that closed-circuit television is one method that meets our short-term requirement for enduring access to technical data by direct display of plant parameters, necessary for assessment in the TBC of plant status during normal operation and in the event of an accident. The following is a representative listing of power plants that use closed-circuit television for that purpose:

Power Plant

Licensee

Indian Point 2  
Trojan  
Millstone 1 & 2  
Haddam Neck  
Fort St. Vrain  
Surry 1 & 2  
Duane Arnold

Consolidated Edison  
Portland General Electric  
Northeast Utilities  
Connecticut Yankee Atomic Power Co.  
Public Service Co. of Colorado  
Vepco  
Iowa Electric Light & Power Co.

OFFICE ➤					
SURNAME ➤					
DATE ➤		8007180	196		

We trust that this information is responsive to your request.

Sincerely,

Original signed by

Dennis M. Crutchfield, Chief  
Operating Reactors Branch #5  
Division of Licensing

Enclosure:  
Copy of April 25, 1980 letter  
from D.G. Eisenhut to AIT  
Power Reactor Licensees

DISTRIBUTION:  
Docket 50-29  
NRC PDR  
Local PDR  
TERA  
NSIC  
NRR Reading  
ORB #5 Reading  
DEisenhut  
RPurple  
RTedesco  
GLainas  
TNovak  
JOlshinski  
JHeltemes  
DCrutchfield  
HSmith  
ABurger  
AFerguson  
NHughes  
DNottingham  
OELD

*Handwritten:* 7-7-80

OFFICE →	ORB#5:DL	C-ORP:DL	EPP:DIB			
SURNAME →	ABurger:dg	DCrutchfield	BGrines			
DATE →	7/3/80	7/7/80	7/ /80			



50-24

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

April 25, 1980

ALL POWER REACTOR LICENSEES

Gentlemen:

SUBJECT: CLARIFICATION OF NRC REQUIREMENTS FOR EMERGENCY RESPONSE FACILITIES AT EACH SITE

Over the past several months the NRC staff has been conducting reviews of each licensee's proposal to upgrade their plant to cope with emergencies. The lessons learned and emergency planning review teams have identified areas where clarification of the NRC position is necessary. Our previous requirements for the TSC have been modified to allow an onsite TSC in close proximity to the control room that would not meet the habitability requirements, provided that a backup, habitable TSC is located near the site.

It is the purpose of this letter to set forth clarification of NRR's requirements for the three emergency response facilities defined in my September 13, 1979 letter to "All Operating Nuclear Power Plants". Additional specific criteria for these facilities is under development. The schedule for implementing these requirements has not changed.

If you have any questions regarding this clarification, please contact the NRC Project Manager for your facility.

Sincerely,

A handwritten signature in dark ink, appearing to read "Barrell G. Eisenhut".

Barrell G. Eisenhut, Acting Director  
Division of Operating Reactors  
Office of Nuclear Reactor Regulation

Enclosure:  
Emergency Response  
Facilities

Dupe of  
8 of 515 682

## EMERGENCY RESPONSE FACILITIES

### Onsite Technical Support Center

An onsite technical support center (TSC) shall be maintained by each operating nuclear power plant. The TSC shall be separate from, but in very close proximity to, the control room and be within the plant security boundary. While care must be taken in selecting technical input available in the TSC, it appears likely that access to additional control room data would be required during an emergency. The location of the TSC shall also be such as to facilitate occasional face-to-face contact between key control room and TSC supervisors (management presence). The emphasis in designing the TSC information displays should be on reactor systems status. Those individuals who are knowledgeable of and responsible for engineering and management support of reactor operations in the event of an accident will report to the TSC (minimum size 25 persons including 5 NRC). Those persons who are responsible for the overall management of the utility resources including recovery following an accident (e.g., corporate managers) should report to the EOF (see below). Upon activation, the TSC will provide the main communication link between the plant and the operator's near-site Emergency Operations Facility, and the main communication link to the NRC for plant operations matters. The TSC must be habitable to the same degree as the control room for postulated accidents (SRP 6.4 as revised by NUREG-0660). Where the primary, in-plant, TSC is not made habitable because of site-specific considerations, a backup TSC which does meet the habitability requirements must be provided on or near the site. Parameters transmitted by any nuclear data link installed to meet future NRC requirements should be available for display in the TSC and the EOF.

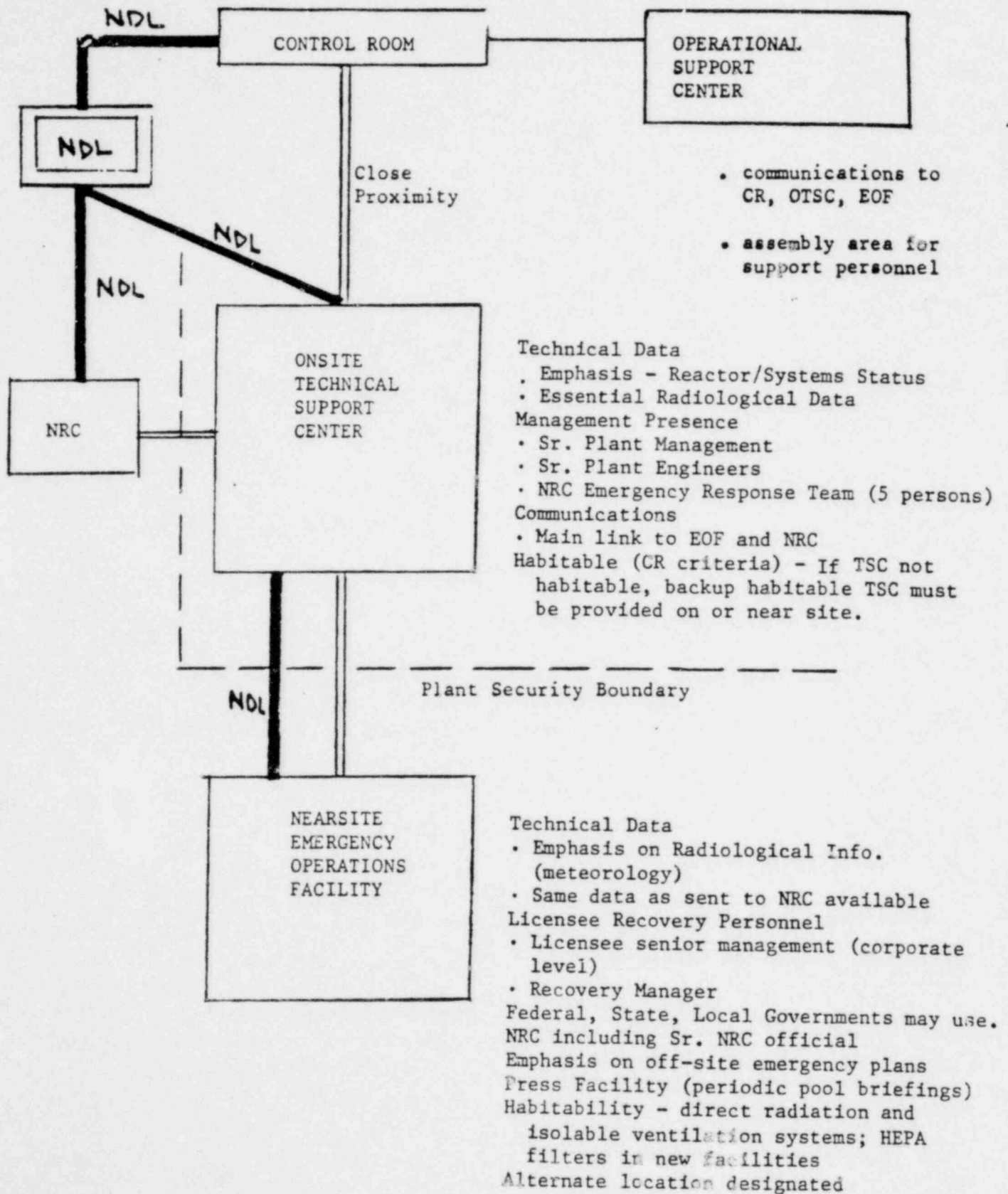
### Onsite Operational Support Center (Assembly Area)

The Operational Support Center shall be the place to which the operations support personnel report in an emergency situation. Communications will be provided with the control room, OTSC and EOF.

### Emergency Operations Facility (Near-Site)

The Emergency Operations Facility (EOF) will be operated by the licensee for continued evaluation and coordination of licensee activities related to an emergency having or potentially having environmental consequences. The EOF must have the capability to display the same plant data and radiological information as will be required for transmittal to the NRC. The EOF will have sufficient space to accommodate representatives from Federal, State and local governments if desired by those agencies, including facilities for the senior NRC representative (10) on-site. In addition, the major State and local response agencies may perform data analysis jointly with the licensee. Overall management of utility resources including recovery operations following an accident (e.g., by corporate management) shall be managed from this facility. Press facilities for about 20 people shall be available at the Emergency Operations Facility (periodic use). Site meteorology should be used to the extent practical for determining the EOF location. The EOF should be located within about one mile of the reactor. The EOF should be a substantial structure, providing significant shielding factors from direct radiation and the capability to isolate ventilation systems. Filtration systems (at least HEPA filters) shall be provided in new structures. Arrangements shall be made to activate an alternate EOF in the event that the nearsite EOF becomes uninhabitable.

EMERGENCY RESPONSE FACILITIES





Emergency Response Facilities

Center	Location	Activation Required?	Occupants			Function	Data Display	Habitability	Back-up if Not Habitable
			In Charge	Number	Skills				
Existing Control Room Upgraded Control Room	In Plant	No	Shift Supervisor or Senior Plant Official	Utility - Variable NRC (1)	Operational & Technical	Plant Control		Wide Accident Spectrum (SRP 6.4 with NUREG-0660)	-
Interim Technical Support Center (TSC) (by 1/1/81)	Should be near Control Room	Yes	Senior Plant Official	Utility - Variable NRC (5)	Engineering & Senior Plant Management	Emergency Engineering Support for Control Room	Direct Display or Call-up of Plant Parameters Necessary for Assessment	No Requirement	Control Room
Permanent TSC (by 1/1/81)	Must be in very close proximity to Control Room	Yes, for Alert, Site Emergency or General Emergency Class	Senior Plant Official	25 (5 NRC)	Engineering & Senior Plant Management	Accident Assessment by Operations Engineers; Support to Control Room during Accidents	Direct Display of plant safety system parameters, call-up display of radiological parameters	Either TSC or backup must be same as Control Room Except for System Redundancy	Habitable TSC near site if primary TSC not habitable
Emergency Operations Facility (EOF)	Near Site (within about 1 mile)	Yes, for Alert, Site Emergency or General Emergency Class	Senior Plant or Corporate Official	10 NRC, including Regional Director, 20 utility including radiological accident assessment and Corporate management, 5 State and Local.  (periodic)	Corporate Management, Radiological Accident Assessment	1. Overall Management of Utility Resources 2. Analysis of Plant effluents met; offsite monitoring for offsite action decisions 3. Briefing location for offsite officials and press pools.	Direct display of radiological and meteorological parameters. At least that provided to NRC	Shielding against direct radiation & ventilation isolation capability	Alternate EOF required away from site; no habitability requirements for alternate