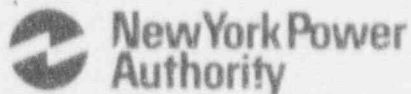


Indian Point 3  
Nuclear Power Plant  
P.O. Box 215  
Buchanan, New York 10511  
914 736.8001



Joseph E. Russell  
Resident Manager

October 24, 1991  
IP3-NRC-91-063

License No. 50-286  
Docket No. DPR-64

Mr. James M. Taylor  
Executive Director for Operations  
U.S. Nuclear Regulatory Commission  
Mail Station P1-137  
Washington, D.C. 20555

Attn: Document Control Desk

Subject: Indian Point 3 Nuclear Power Plant  
Emergency Response Data System -  
Implementation Plan

Dear Mr. Taylor:

In accordance with 10 CFR 50 Appendix E, this letter provides the Authority's Emergency Response Data System (ERDS) Implementation Plan for the Indian Point Unit 3 Nuclear Power Plant. The attachments provide information requested by NUREG-1394, Rev. 1:

- I. Completed Appendix B
- II. Emergency Plan procedures needing development or revisions
- III. Implementation Plan

If you have any questions, please contact Mr. Bryan J. Ray at 914-736-8043.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'J. E. Russell', written over the typed name.

Joseph E. Russell  
Resident Manager  
Indian Point 3 Nuclear Power Plant

JER:bjr:rj  
Attachments

1024 1/1

cc: U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

IP3 Resident Inspector  
Indian Point 3  
U.S. Nuclear Regulatory Commission  
P.O. Box 337  
Buchanan, New York 10511

Nicola F. Conicella, Project Manager  
Project Directorate I-1  
Division of Reactor Projects - I/II  
U.S. Nuclear Regulatory Commission  
Mail Stop 14B2  
Washington, D.C. 20555

## APPENDIX B

### ERDS COMMUNICATIONS DESCRIPTION AND SURVEY QUESTIONNAIRE

## I. Contacts

Note: Please provide name, title, mailing address, and phone number.

A. Survey Coordinator (i.e., contact for later clarification of questionnaire answers):

Anthony Cerwin, Computer Services Manager 914-736-8732  
P.O. Box 215  
Indian Point 3 Station  
Buchanan, N.Y. 10511

B. Computer Hardware Specialist(s):

James Davis, Computer Services Hardware Supervisor 914-736-8710  
P.O. Box 215  
Indian Point 3 Station  
Buchanan, N.Y. 10511

C. Systems Software Specialist(s):

Roger Harris, Computer Services Application Supervisor 914-736-8712  
P.O. Box 215  
Indian Point 3 Station  
Buchanan, N.Y. 10511

D. Application-level Software Specialist(s):

Roger Harris, Computer Services Application Supervisor 914-736-8712  
P.O. Box 215  
Indian Point 3 Station  
Buchanan, N.Y. 10511

E. Telephone Systems Specialist(s):

David Daley, Supervisor 914-736-8708  
P.O. Box 215  
Indian Point 3 Station  
Buchanan, N.Y. 10511

### III. Selection Of Data Feeders

A. How many data feeders are there (six maximum)?

One (1)

B. Identify the selected data feeders and provide the following for each:

- (1) a short description of the categories of data points it will provide (e.g., met. rad. or plant data points, by unit) and
- (2) the rationale for selecting it if another system can also provide its categories of data points.

All available points are in the plant computer except Meteorological parameters

C. Which data feeder is the site time determining feeder? This should be the feeder which is providing the majority of the data points.

N/A

## IV. Data Feeder Information

Note: A new Section IV must be filled out for each feeder system selected.

### General Questions

#### 1. Identification of Data Feeder

- a. What is the name in local parlance given to this data feeder (e.g., Emergency Response Information System)? Please give both the acronym and the words forming it.

CFMS = Critical Function Monitoring System

- b. Is this the site time determining feeder?

YES

- c. How often will this feeder transmit an update set to the ERDS (in seconds)?

15 seconds

#### 2. Hardware/Software Environment

- a. Identify the manufacturer and model number of the data feeder hardware.

Perkin-Elmer (Concurrent Computers) 3200 series

- b. Identify the operating system.

OS/32

- c. What method of timekeeping is implemented on this feeder system (Daylight Savings, Standard, Greenwich)?

EST/DST

- d. In what time zone is this feeder located?

EST

## 3. Data Communication Details

- a. Can this data feeder provide asynchronous serial data communication (RS-232-C) with full-modem control?

YES

- b. Will this feeder transmit in ASCII or EBCDIC?

ASCII

- c. Can this feeder transmit at a serial baud rate of 2400 bps? If not, at what baud rate can it transmit?

YES

- d. Does the operating system support XON/XOFF flow control?

YES

1. Are any problems foreseen with the NRC using XON/XOFF to control the transmission of data?

NO

- e. If it is not feasible to reconfigure a serial port for the ERDS linkup (i.e., change the baud rate, parity, etc.), please explain why.

N/A

- f. Do any ports currently exist for the ERDS linkup?

YES

1. If not, is it possible to add additional ports?

N/A

2. If yes, will the port be used solely by the ERDS or shared with other non-emergency-time users? Give details.

Exclusively ERDS

4. Data Feeder Physical Environment and Management

- a. Where is the data feeder located in terms of the TSC, EOF, and control room?

TSC

- b. Is the data feeder protected from loss of supply of electricity?

YES - via UPS

- c. Is there a human operator for this data feeder?

YES

1. If so, how many hours a day is the feeder attended?

1 shift / 8 hours



**EMERGENCY PLAN AND IMPLEMENTING PROCEDURE CHANGES  
REQUIRED TO ENSURE ERDS ACTIVATION AND TESTING**

The following Emergency Plan Implementing Procedures will be written/revised to incorporate reference to and instruction for activation and testing of ERDS:

**Emergency Plan, Volume II - Emergency Response Activation:**

The "Control Room" and/or "Technical Support Center" (TSC) sections, as determined appropriate, will be revised to assign responsibility for activation of ERDS by either Control Room or TSC personnel. These sections will also be revised as appropriate to ensure voice transmission of data not available via ERDS.

**Emergency Plan, Volume III - Implementing Procedures:**

1. Implementing Procedure IP-1085 "Maintenance of Emergency Preparedness at IP3", will be revised to indicate the requirement for quarterly testing of ERDS.
2. A new Emergency Plan implementing Procedure will be written to describe ERDS and provide criteria and instruction for activation and testing of ERDS.

**Emergency Response Data System (ERDS) Implementation Plan**  
**for**  
**Indian Point 3 Nuclear Power Plant**

**References:**

1. 10CFR 50.72 (a) (4) Immediate notification requirements for operating nuclear power reactors.
2. Appendix E to Part 50 - Emergency Planning and Preparedness for Production and Utilization Facilities, VI. Emergency Response Data System.
3. NUREG - 1394, Rev. 1, Emergency Response Data System (ERDS) Implementation.

The implementation plan for the Emergency Response Data System (ERDS) at the Indian Point 3 Nuclear Power Plant (IP3), consists of two (2) major tasks:

1. Initial installation and establishment of the system.
2. Establishment of the administrative controls for operation and maintenance of the system.

Sub-tasks required to be completed in order to accomplish these two (2) major tasks have been identified and are delineated as follows including the responsible IP3 group and the expected completion dates:

**A. Installation and Establishment of the System:**

1. Establish contact with the NUS Corporation, EI Division (NUS-EI) for interfacing and site visit.

Responsible Group: Computer Services, Licensing,  
Emergency Planning  
Completed 10/16/91

2. Complete NUREG-1394, Rev. 1, Appendix B.

Responsible Group: Computer Services  
Completed 10/23/91: (Attachment 1)

3. Determine use of available Point Identification Descriptions (PIDs).

Responsible Group: Computer Services  
Completion Date: 10/15/91

4. Establish IP3 PIDs and ensure plant review/concurrence.

Responsible Group: Licensing  
Completion Date: 10/31/91

### ATTACHMENT 3

5. Determine the location for onsite activation of the ERDS.  
Responsible Group: Emergency Planning  
Completion Date: 11/08/91
6. Review NUREG - 1394, Rev. 1 and IP3 computer capability.  
Responsible Group: Computer Services  
Completion Date: 11/28/91
7. Initiate purchase requisition for provision of required hardware and software.  
Responsible Group: Computer Services  
Completion Date: 11/28/91
8. Award contract for installation of hardware and software.  
Responsible Group: Computer Services  
Completion Date: 03/31/92
9. Coordinate NRC's installation of the modum.  
Responsible Group: Computer Services  
Completion Date: 06/01/92
10. Provide and install software.  
Responsible Group: Computer Services/IP3 Contractor  
Completion Date: 06/01/92
11. Write and perform preliminary system test.  
Responsible Group: Computer Services/IP3 Contractor  
Completion Date: 06/01/92
12. Complete Data Point Library (DPL) including unique system description.  
Responsible Group: Technical Services  
Completion Date: 08/31/92
13. Write quarterly performance test.  
Responsible Group: Computer Services/IP3 Contractor  
Completion Date: 07/31/92
14. Conduct formal/final acceptance test.  
Responsible Group: Computer Services/IP3 Contractor  
Completion Date: 09/30/92

B. Administrative Controls for Operation and Maintenance of the System:

1. Identify Emergency Plan procedures needed or requiring revision.  
  
Responsible Group: Emergency Planning  
Completion Date: 10/28/91 (Attachment 2)
2. Write or revise procedure to ensure that hardware and software changes that could affect transmission format and computer communication protocol are provided to the NRC prior to change.  
  
Responsible Group: Computer Services/Licensing  
Completion Date: 08/31/92
3. Ensure that any changes to the DPL are submitted to the NRC within 30 days after the changes are made.  
  
Responsible Group: Nuclear Engineering (Corporate Office)/  
Licensing  
Completion Date: 08/31/92
4. Write and revise Emergency Plan Implementing Procedures to include directives for periodic testing; activation of ERDS; and voice transmittal of data not available via ERDS.  
  
Responsible Group: Emergency Planning  
Completion Date: 08/30/92
5. Conduct training for those responsible for activation and monitoring of ERDS, and those who may be responsible for voice transmittal of data not available.  
  
Responsible Group: Training  
Completion Date: 09/30/92
6. Initiate quarterly testing of ERDS.  
  
Responsible Group: Emergency Planning  
Completion Date: 1st quarter after 09/30/92
7. Provide for maintenance of ERDS  
  
Responsible Group: Computer Services  
Completion Date: 09/30/92