

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9110300015 DOC.DATE: 91/10/21 NOTARIZED: NO DOCKET #  
 FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250  
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251

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 RECIP.NAME RECIPIENT AFFILIATION Document Control Branch (Document Control Desk)

SUBJECT: Forwards emergency response data sys implementation plan & description of plant computer sys configuration & interface. Emergency procedures will be revised, as necessary, to ensure activation of sys within 1 h of declaration of alert.

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L-91-287  
10 CFR 50 Appendix E

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D. C. 20555

Gentlemen:

Re: Turkey Point Units 3 and 4  
Docket Nos. 50-250 and 50-251  
Emergency Response Data System Implementation Plan

On August 13, 1991, the Nuclear Regulatory Commission published a final rule requiring power licensees to participate in the Emergency Response Data System (ERDS). Attachment A provides Turkey Point's ERDS implementation plan. Attachment B and Figure 1 describes Turkey Point's computer system configuration and interface.

Procedures governing hardware and software changes will be developed to ensure the integrity of ERDS. Emergency procedures will be revised as necessary to ensure activation of ERDS within one hour of declaration of an Alert or higher emergency classification level.

As discussed during Florida Power and Light's meeting with the NRC on October 2, 1991, the enclosed ERDS implementation plan is provided as an estimate for the NRC to plan manpower requirements. It should be noted that the attached schedule for implementation of ERDS is dependent, in part, on actions by the NRC.

Should there be any questions, please contact us.

Very truly yours,

T. F. Plunkett  
Vice President  
Turkey Point Nuclear

TFP/RJT/rjt

Attachment

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC  
Senior Resident Inspector, USNRC, Turkey Point Plant

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Attachment A

Turkey Point Units 3 and 4 ERDS Implementation Plan

# Attachment A

## FPL Turkey Point Units 3 and 4

### ERDS Implementation Plan

NUS contacts FPL  
(site visit)  
FPL develops DPL/PAL \*

FPL develops transmission  
software

FPL transmits DPL/PAL  
to NRC (site survey)

NRC installs phone line

NRC reviews DPL/PAL

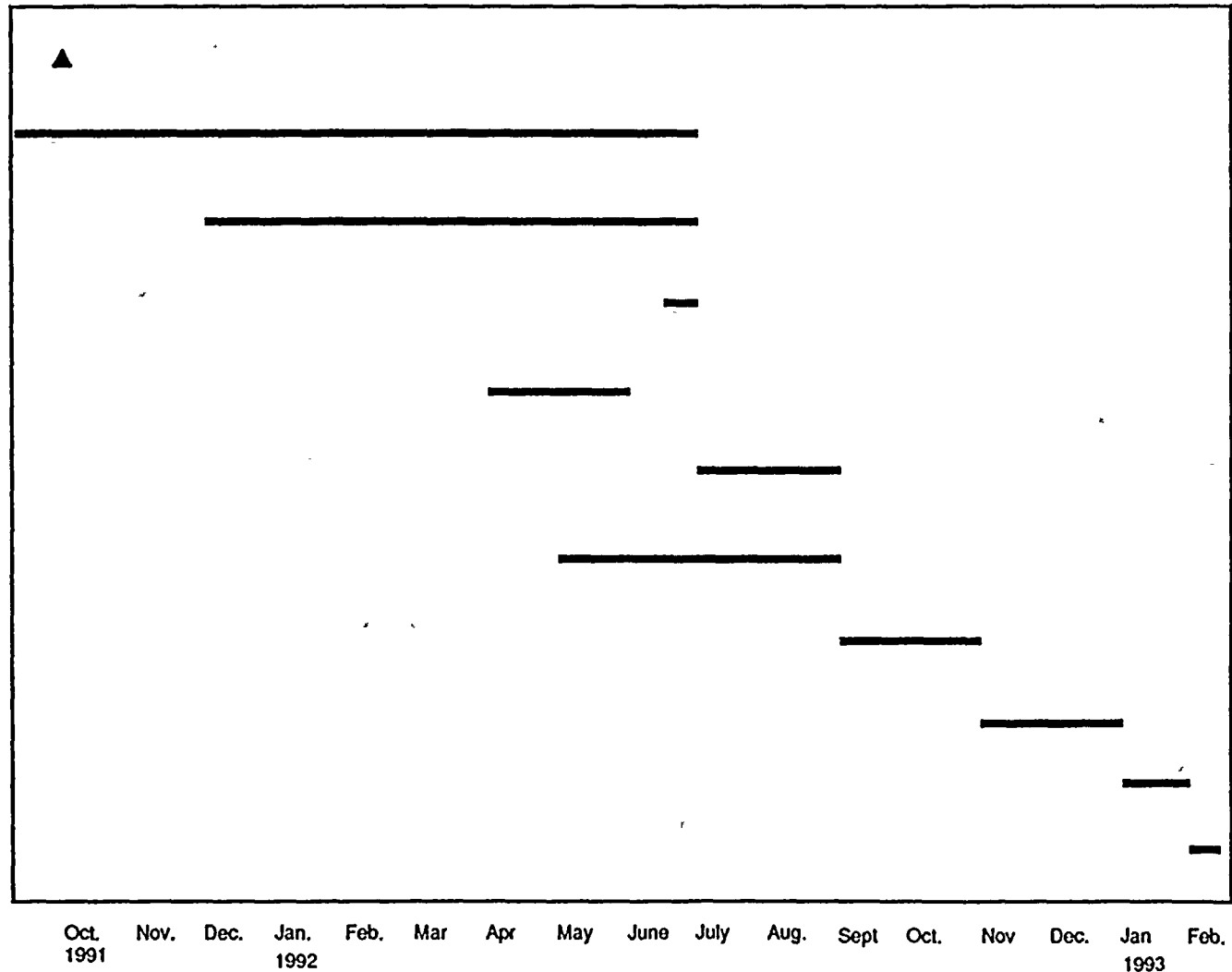
FPL develops ERDS  
procedures

Preliminary Transmission  
Test

ERDS Test w/ NUS

ERDS Test w/ NRC

FPL on-line



\* Note: DPL - Data Point Library PAL - Plant Attribute Library

Attachment B

Turkey Point Units 3 and 4 ERDS Computer System Configuration

ATTACHMENT B

FPL Turkey Point Units 3 & 4 Computer System Configuration

The ERDS Link data feeder is the Emergency Response Data Acquisition and Display System (ERDADS). Figure 1 illustrates the computer interconnection of ERDADS.

ERDADS is a redundant dual unit monitoring system with three data collection computers and one host computer. One train serves as the master host, while the second train is a backup. Each train consists of two Plant Data Concentrators (PDC), one Plant Environmental Display System (PEDS) and one Data Link System (DLS). The Plant Data Concentrators utilize analog and digital data acquisition hardware (MODCOMP model MODACS III). The Plant Environmental Data System is the host/master computer. The Plant Data Link System communicates with the Eberline Process Radiation Monitoring System and the Qualified Safety Parameter Display System (QSPDS) via serial communication lines. The DLS also communicates with the Digital Data Processing System (DDPS) via the input/output bus.

Both Trains A and B are linked via a T-bar, through the respective PEDS. The T-bar links ERDADS with the various display systems located in the control room, technical support center (TSC) and emergency off-site facility (EOF).

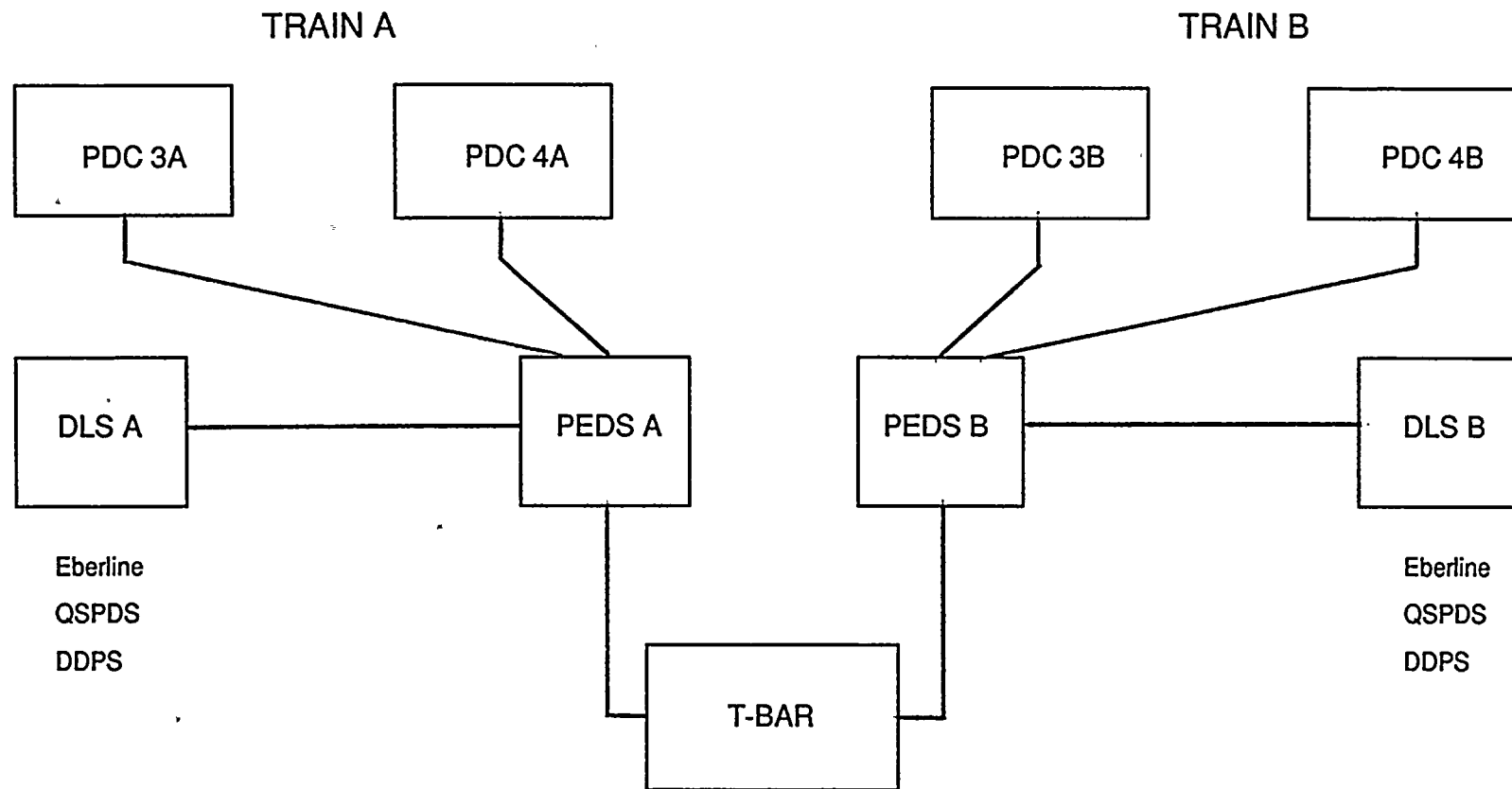
The ERDS Link will be connected to the T-bar equipment and powered from the same power supply as the host computers (PEDS).

Turkey Point is a single-feeder site and will use two RS-232C asynchronous modem control ports.



Figure 1

## FPL Turkey Point 3 & 4 ERDADS System



Link to :

- ERDS (Unit 3 & 4)
- Display Screen (EOF)
- Display Screens (TSC)
- Display Screen (Control Room)
- System Devices
- Printers