

MAY 29 1986

Mr. C. A. McNeill, Jr.  
Vice-President Nuclear  
Public Service Electric and Gas  
P. O. Box 236  
Hancocks Bridge, New Jersey 08038

Dear Mr. McNeill:

This is to confirm our intent to conduct a survey of your emergency data system capabilities for possible use as part of an Emergency Response Data System (ERDS). As discussed with Rod Patwell of your staff a team of three individuals: Cheryl Sakenas, NRC; Gary Bethke, Comex; and Jim Eberle, Phoenix; will be arriving at your facilities at 9:00 a.m. on June 10, 1986 to conduct the survey. For your information I am enclosing a copy of the ERDS survey checklist to be used during the visit with your facilities. If you have any questions please contact me at (301)492-4155.

Sincerely,

John B. Hickman  
Incident Response Branch  
Division of Emergency Preparedness  
and Engineering Response  
Office of Inspection and Enforcement

Enclosure: As stated

cc w/o enclosure:  
C. Sakenas, IE  
G. Bethke, COMEX  
J. Eberle, PHOENIX

Distribution:  
DCS  
IRB R/F  
J. Hickman  
R. Priebe  
K. Perkins

*JB*  
IRB: DEPER: IE  
JBHickman: ams  
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PARTICIPANTS

FACILITY: Salem / Horse Creek

DATE: 6/10/86

NAME

ORGANIZATION

PHONE

NAME	ORGANIZATION	PHONE
Cheryl Sernas	USNCC	301-492-4043
Jim Eberle	Phoenix Assoc.	301-654-0850
Gary Bethke	Comex Corp.	
PHIL O'DONNELL	PSE+G Salem System Eng.	609-339-5116
Phil Opsal	PSE+G Horse Creek Sw. Eng.	609-339-5237
David B. Shaffer	E+PB Computers PSE+G	609-339-3562
Mark E Woloski	PSE+G H.C. Nuc Systems	609-339-3724
MILTON ALLICOCCIO	PSE+G - SACRAM ENGG.	609-339-4839
JAMES F. DAVIS, JR	PSE+G - CONTRACTS ELECTRICAL DIV-NUC	201-430-8216
Alan Morjan	PSE+G - CONTRACTS ELECTRICAL DIV-NUC	201-430-8417
M LUNNEN	NOVA	201-455-1112
Ed Weisenberger	PSE+G Computer Group	609-339-4880
Joe Calamita	PSE+G - Computer Group	609-339-4138
DAVE BAILEY	PS Systems Group	201-339-4815
JN Leech	PSE+G Licensing	609-339-4245
RD MARTIN	NOVA Technologies	201-354-3011
T DENNIS	PSE+G ENGR COMPUTER	(609) 339-4879
ES Patwell	PSE+G Licensing	609-339-4750
PT GLENNON	PSE+G RAD PRO SERVICES	609 339 5011
R F YEWDALE	" " " "	609 339 4569

## ERDS BRIEFING FOR LICENSEES

### INTRODUCTION

Introduce NRC, COMEX & Phoenix staff

Express appreciation for cooperation and NRC desire to minimize impact on licensee in this information gathering process.

State objectives of this visit

To understand licensee's systems design (Phoenix)  
computer and telecommunications

To understand licensee's parameter set (COMEX)  
data characteristics/pedigree

Briefly Describe NRC Emergency Response Role (As Background)

Monitor the licensee to assure appropriate protective action is being taken with respect to offsite recommendations.

Support the licensee (technical analysis and logistic support).

Support offsite authorities, including confirming the licensee's recommendation to offsite authorities.

Keep other federal agencies and entities informed of the status of the incident.

Keep the media informed of the NRC's knowledge of the status of the incident, including coordination with other public affairs groups.

Briefly discuss objectives of ERDS

Mission oriented

NOT NDL (see attached comparison)

Only during event (ALERT)

Lessen impact on Licensee communicator

Less subject to error or voice data

Emphasize currently in "Feasibility Study" stage, only

ERDS

Identify limited parameters required (typically 60)

Least impact on licensee

Will accept data in licensee format

Will accept data at licensee frequency of updates

May need some software to assemble data points

If equipment is needed to deliver data stream from licensee port  
NRC will provide (eg, MODEM)

Licensee will activate data stream (OFF/ON Switch)

Most likely at ALERT level.

Not intended to provide earlier data.

Realtime data only

No flight recorder concept (earlier data provided by voice)

Demonstration with Commonwealth Edison and Duke Power

Very effective data capture

Less ENS voice traffic and higher quality discussions

Higher quality and prompt assessments

Provided adequate basis for confirming PM recommendations

Requirements analysis this visit

Computer Design (Phoenix describe)

Parameters (COMEX describe)

INVITATION

Visit NRC Operations Center

QUESTIONS



## NDL vs ERDS

### NDL

- \* Automatic activation based on plant parameters. Potential regulatory tool.
- \* Data continuously recorded at Operations Center.
- \* Some connections direct to plant sensors, potentially degrading instrumentation.
- \* Initial data list about 400 variables, later reduced to 125.
- \* High cost due to requirement for a totally new system.
- \* Extensive backfit, requiring dedicated onsite computer.
- \* Increased data may encourage NRC to direct plant operation.
- \* Accuracy and reliability are excellent.
- \* Timeliness is excellent.
- \* Completeness is potentially excellent due to parameter availability.
- \* Reduces data gathering and transmission burden on licensees.

### ERDS

- \* Licensee activated. Probably at Alert level.
- \* Data provided under emergency conditions only.
- \* No direct connection.
- \* Data list about 60 variables, comparable to SPDS set.
- \* Relatively low cost due to usage of existing systems.
- \* Minimal backfit, software for data assembly and modem for transmission.
- \* Limited data list necessary to assess plant safety.
- \* Accuracy and reliability are excellent.
- \* Timeliness is expected to be excellent. Initiation will depend on system configuration.
- \* Completeness is expected to be excellent. Site surveys have indicated good parameter coincidence.
- \* Reduces data gathering and transmission burden on licensees. Supplemental voice transmissions have been reduced.

NOTES

APC discussing response thru E.O.S. info  
info in a memo 3.10, prints, etc.

PSE & G (Salem & Hope Creek)

ROD Patwell

(609) 339-4750

Will get back to me.

Call Bob Summers, RI, 488-5115

PSE & G

ATTN C. A. McNeill Jr

VP Nuke

PO Box 236

Hancock Bridge NJ 08038

Tim Dennis (609) 339-4879

22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS

