



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

September 30, 1998

50-250

LICENSEE: Florida Power and Light Company
FACILITY: Turkey Point Units 3 and 4
SUBJECT: SUMMARY OF SEPTEMBER 14, 1998, MEETING WITH FLORIDA POWER AND LIGHT COMPANY AND SITE TOUR ON THERMO-LAG ISSUE - TURKEY POINT UNITS 3 AND 4 (TAC NOS. M97422, M97423, M99324, AND M99325)

Introduction

On September 14, 1998, the U. S. Nuclear Regulatory Commission (NRC) staff met with Florida Power and Light Company (licensee) representatives at the Turkey Point Plant in Florida City, Florida. The purpose of the meeting was to discuss with the licensee its requests for exemptions from the technical requirements of Appendix R to 10 CFR Part 50 for certain outdoor fire zones and the turbine structure; and to walk down the areas of concern. Previously, by letter dated February 24, 1998, the staff granted a partial exemption for certain outdoor fire zones. The attendees are listed in Enclosure 1 and a copy of the licensee's handout is included as Enclosure 2.

Discussion

The licensee's representatives discussed, among other things, the progress to-date of the Thermo-Lag Upgrade Project, and the details of the exemption requests.

Following the discussion, the NRC staff and the licensee's representatives walked down the turbine building fire zones that are the subject of the exemption request. During the walkdowns, the staff assessed postulated turbine lube oil fires with emphasis on the condensate pits and the routing of protected safe shutdown circuits. The staff also observed the work completed, including berms/drains, grating, checker plate, and completed barrier upgrades, and discussed the detailed bases for the exemption requests and the scope of the Thermo-Lag Upgrade Project for the turbine structure. Finally, the staff discussed with the licensee Fire Zone 131 and walked down Fire Zones 106R and 118.

Conclusion

As a result of the above discussion and walkdowns, the following understandings were reached.

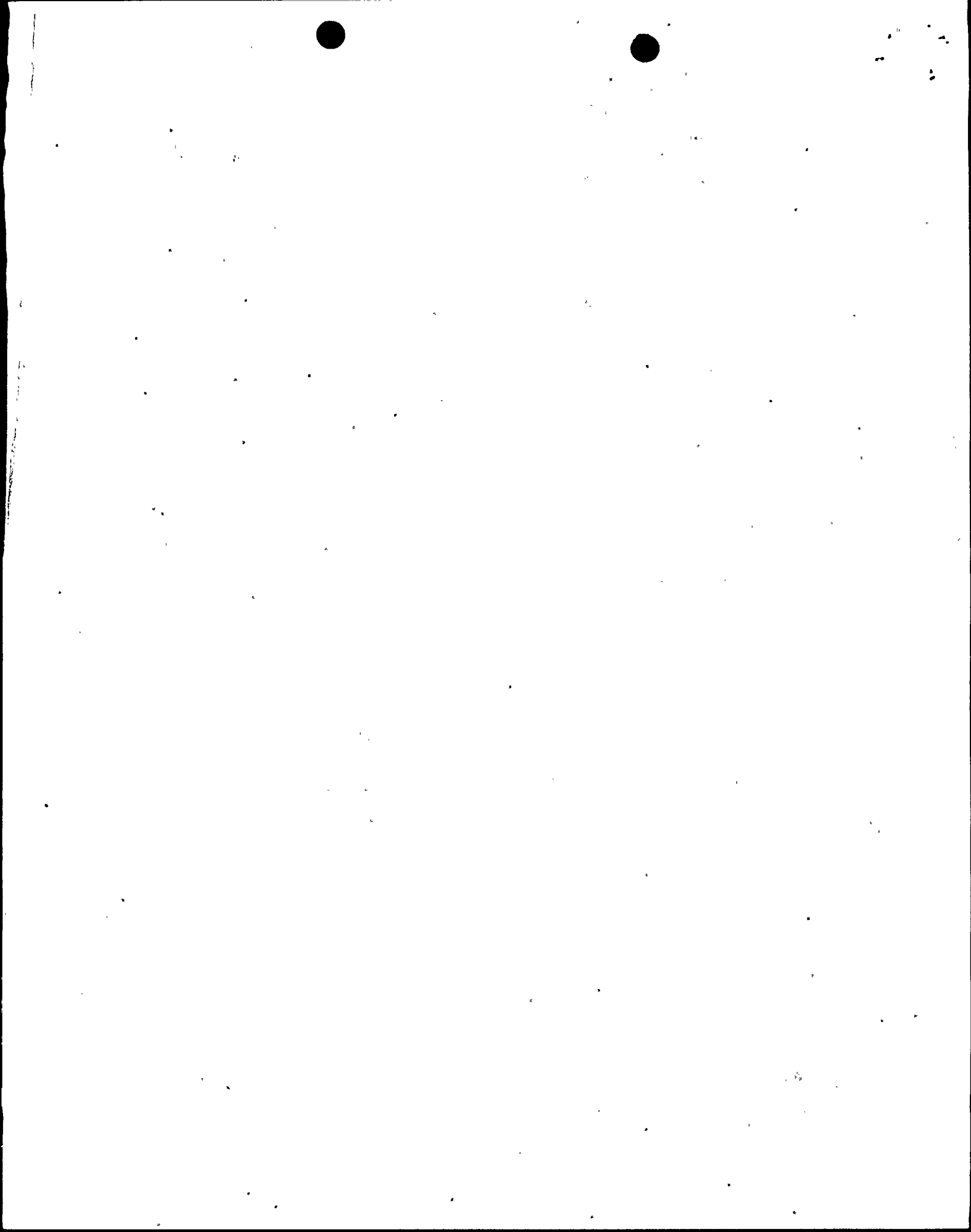
1. Fire Zones 106R, 118, and 131

The licensee will address and evaluate Fire Zones 106R and 118 together and will submit additional information to address questions regarding the roof composition and associated fire hazards. The licensee will also submit a detailed description of the post-fire safe shutdown circuits and equipment to be protected in Fire Zone 118, their safety functions, and their protection schemes, i.e., the amount of spatial separation and fire barrier rating. In addition, on the basis of its review of the licensee's exemption request, the staff questioned the need for an exemption for Fire Zone 131. During the meeting, the licensee confirmed that an exemption was not needed for safe shutdown circuits. Therefore, the licensee will review and revise, as appropriate, its exemption request for Fire Zone 131.

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PDR

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September 30, 1998

2. Turbine Building Fire Zone

The licensee will submit a detailed description of the post-fire safe shutdown circuits and equipment to be protected inside, above, and immediately adjacent to the condensate pits, and their respective safety functions. For these circuits, the licensee will also describe where the transition from the 1-hour rating to the 25-minute rating takes place. On the basis of its preliminary review of the licensee's exemption request for the turbine building, the staff found that the exemption request included fire zones for which an exemption was not needed. The licensee considered this finding during the site visit and agreed with the staff. Therefore, the licensee will review and revise, as appropriate, its exemption request for various fire zones in the turbine building.

The licensee will provide the supplemental additional information about mid-October 1998.

Original signed by:

Kahtan N. Jabbour, Senior Project Manager
Project Directorate II-3
Division of Reactor Projects I/II
Office of Reactor Regulation

Docket Nos. 50-250 and 50-251

Enclosures: As stated

cc w/encls: see next page

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OFFICE	PD2-3:PM	PD2-3:LA	E	SPLB:BC	E	PD2-3:D	C		
NAME	KJabbour <i>KNJ</i>	BClayton <i>BAC</i>		SWest <i>SN</i>		FHebdon <i>HF</i>			
DATE	09/2/98	09/7/98		09/13/98		09/17/98		09/ /98	

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2. Turbine Building Fire Zone

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The licensee will provide the supplemental additional information about mid-October 1998.

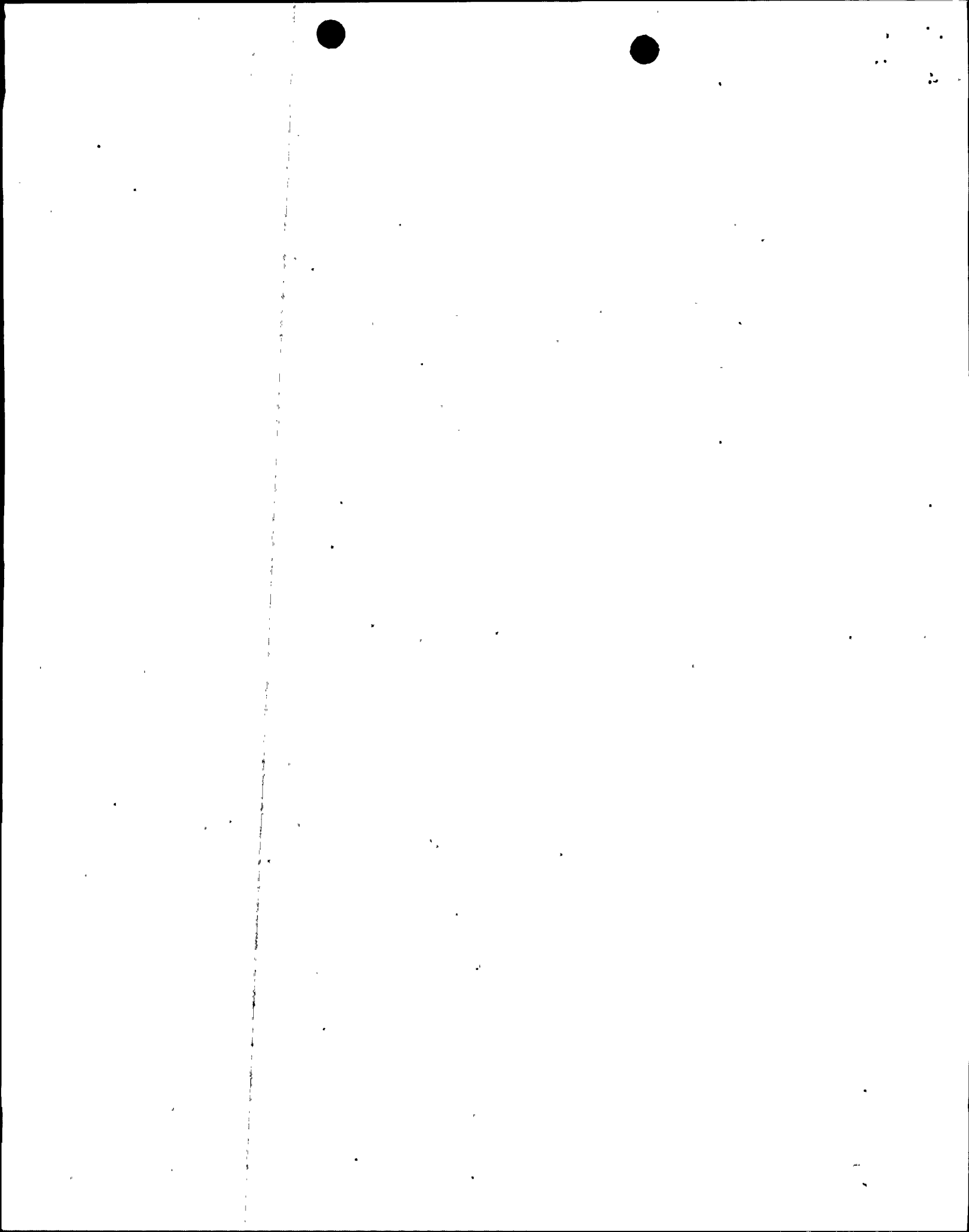
Kahtan N. Jabbour

Kahtan N. Jabbour, Senior Project Manager
Project Directorate II-3
Division of Reactor Projects I/II
Office of Reactor Regulation

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Enclosures: As stated

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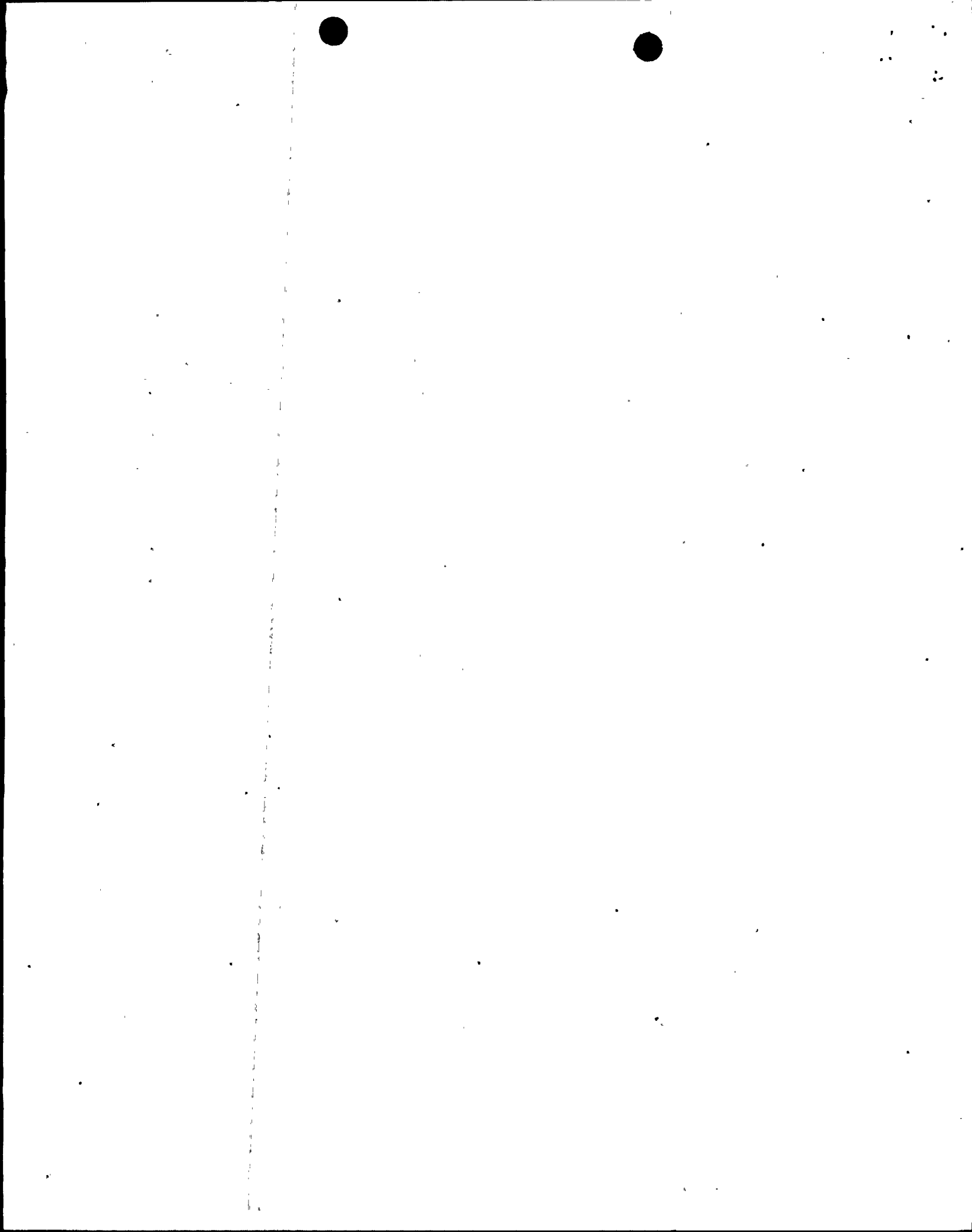
List of Attendees
Meeting between NRC and FPL
September 14, 1998

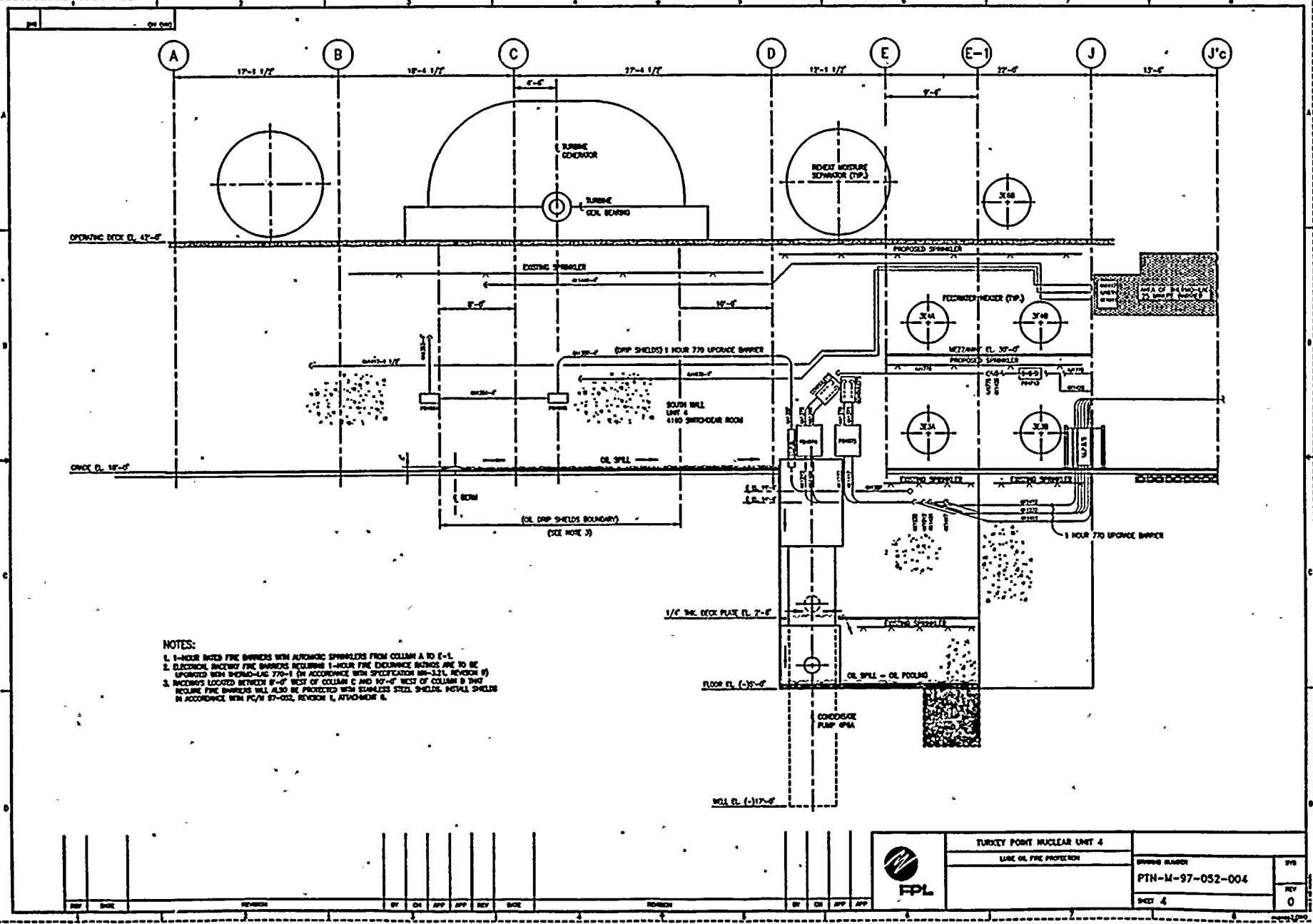
NRC

S. West
P. Madden
T. Eaton
R. Reyes
K. Jabbour

FPL

A. Zielonka
J. Manso
C. Fisher
V. Kaldenbach (Duke Engineering)
A. Dunstan
O. Hanek

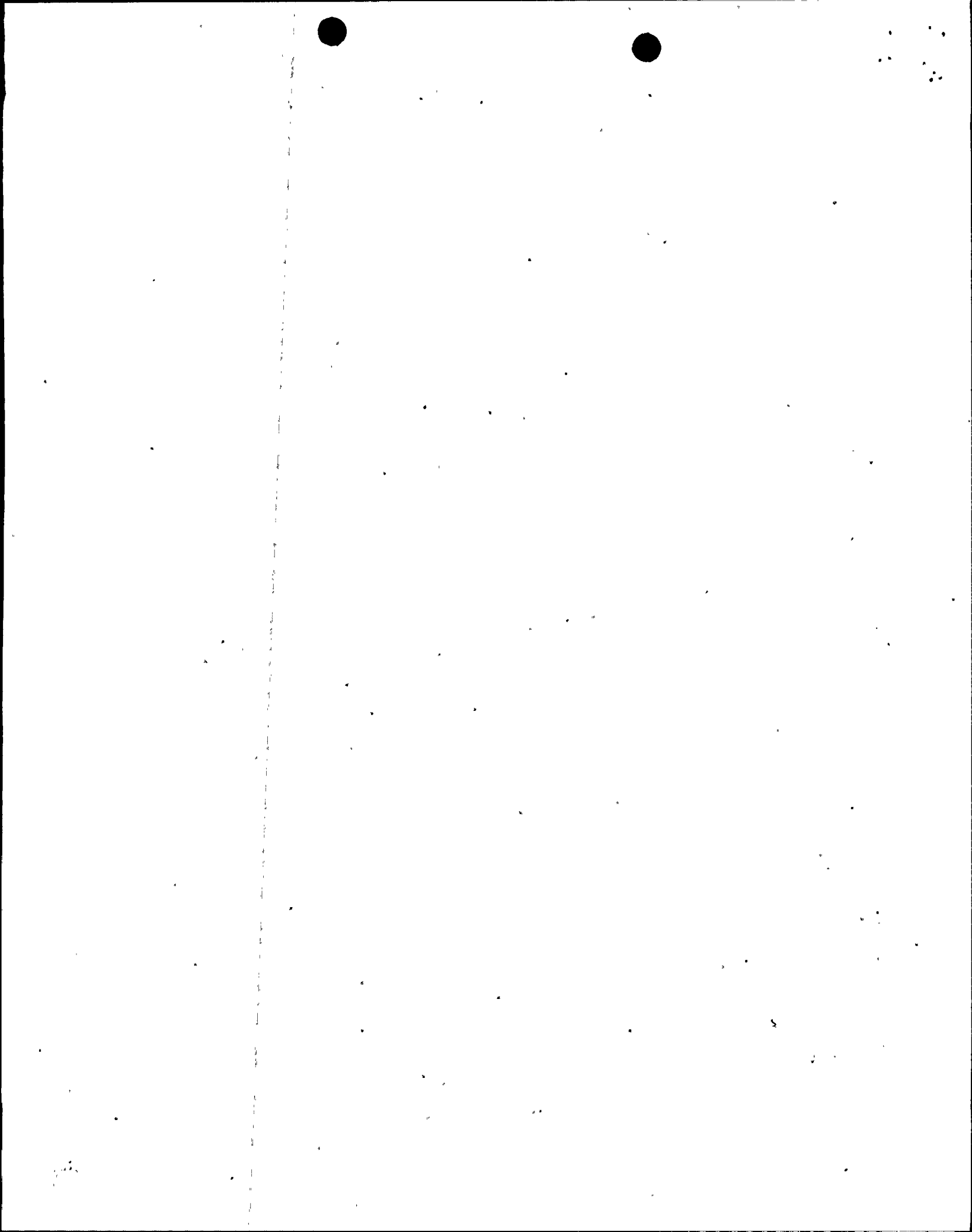


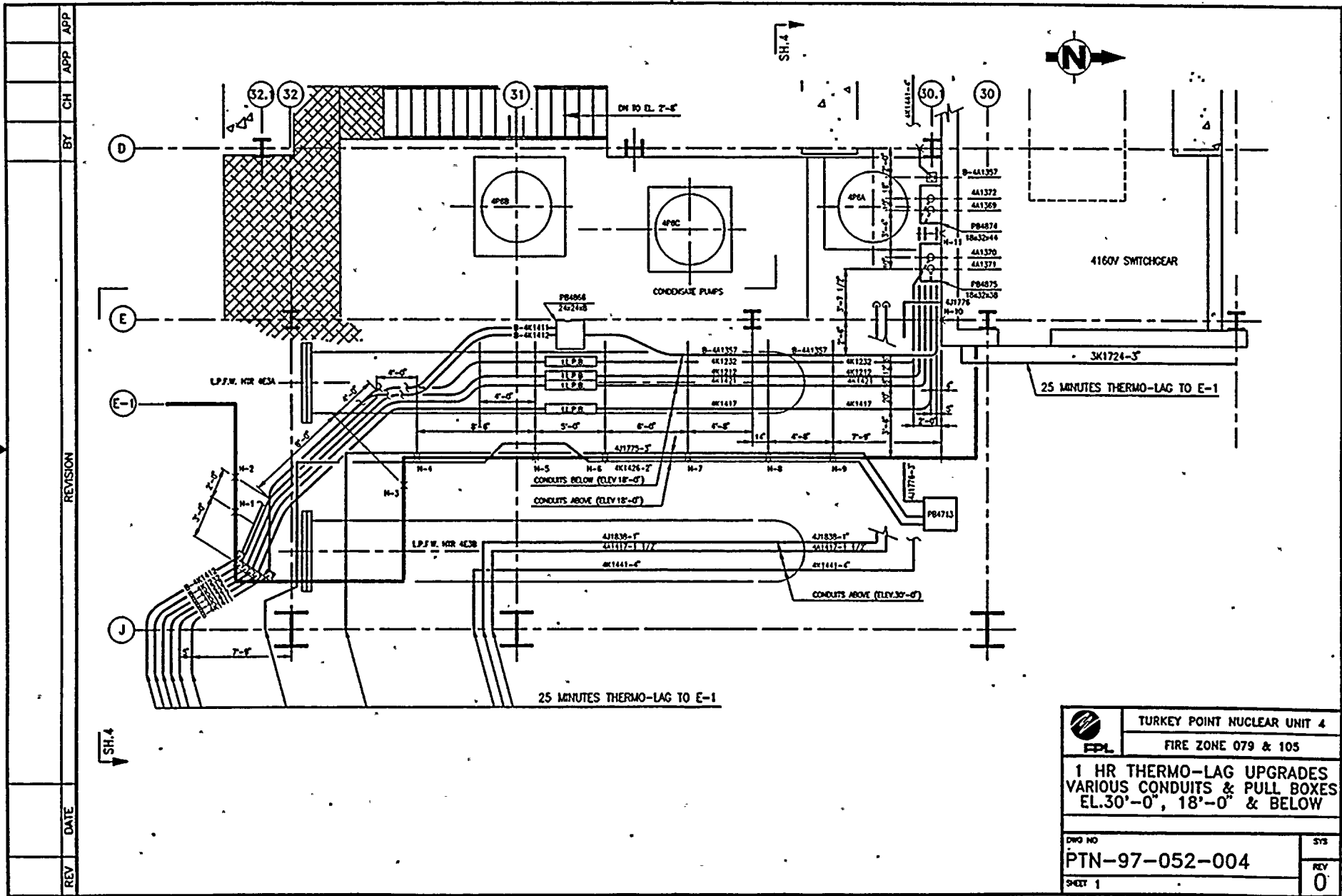


- NOTES:
1. 1-HOUR RATED FIRE BARRIERS WITH AUTOMATIC SPRINKLERS FROM COLUMN A TO E-1.
 2. ELECTRICAL RACKS/FIRE BARRIERS INCLUDING 1-HOUR FIRE EXHAUSTANCE BARRIERS ARE TO BE UPGRADED WITH MEMO-A-10 770-8 (IN ACCORDANCE WITH SPECIFICATION 104-131, REVISION 0)
 3. BARRIERS LOCATED BETWEEN 8'-0" WEST OF COLUMN C AND 10'-0" WEST OF COLUMN B SHD REQUIRE FIRE BARRIERS WILL ALSO BE PROTECTED WITH STAINLESS STEEL SHIELDS. INSTALL SHIELDS IN ACCORDANCE WITH PC/M 97-052, REVISION 1, ATTACHMENT 6.


REV	DATE	REVISION	BY	CHK	APP	APP	REV	DATE	REVISION	BY	CHK	APP	APP

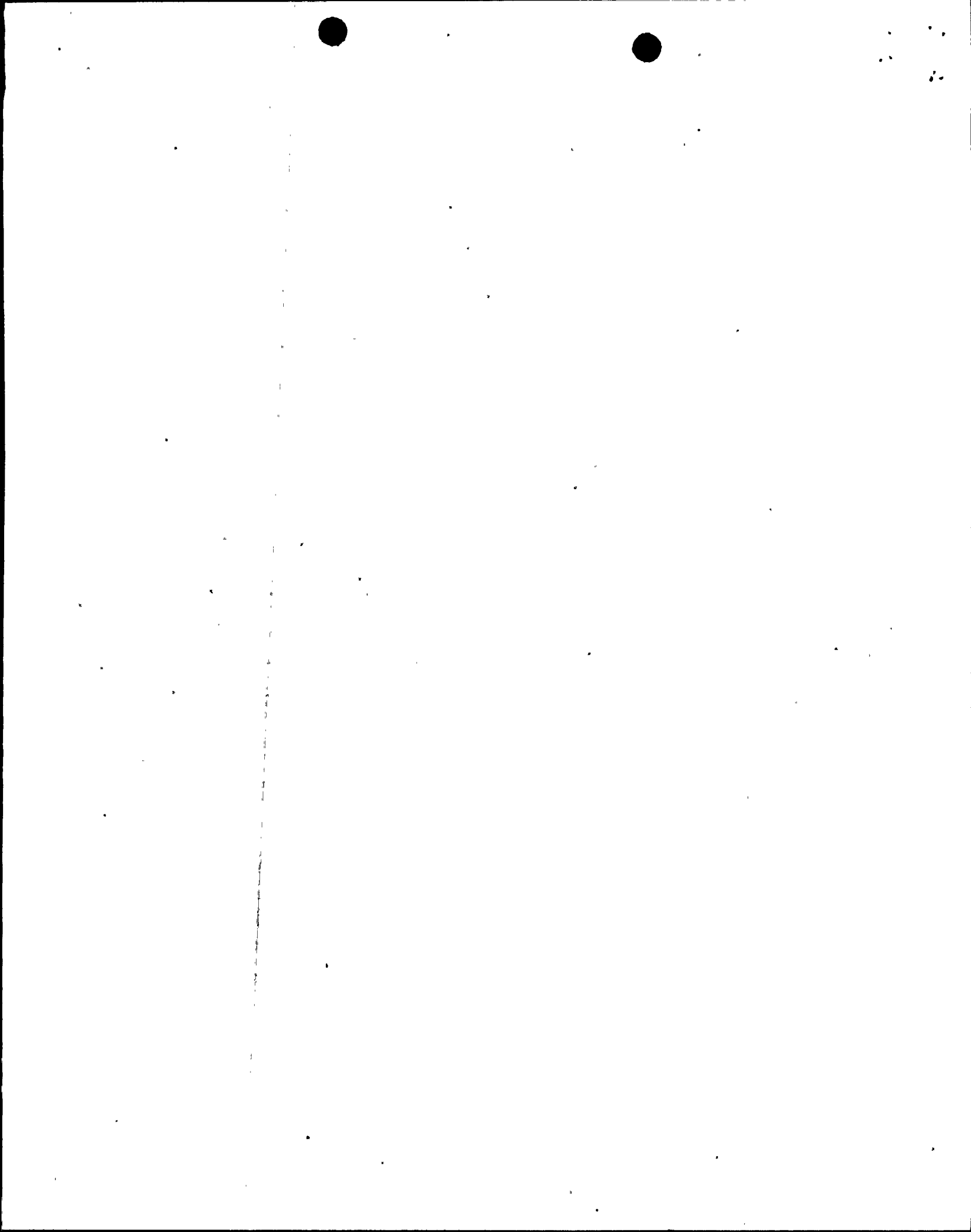
	TURKEY POINT NUCLEAR UNIT 4	DRAWING NUMBER	978
	LINE OIL FIRE PROTECTION	PTN-M-97-052-004	REV
		SHEET 4	0

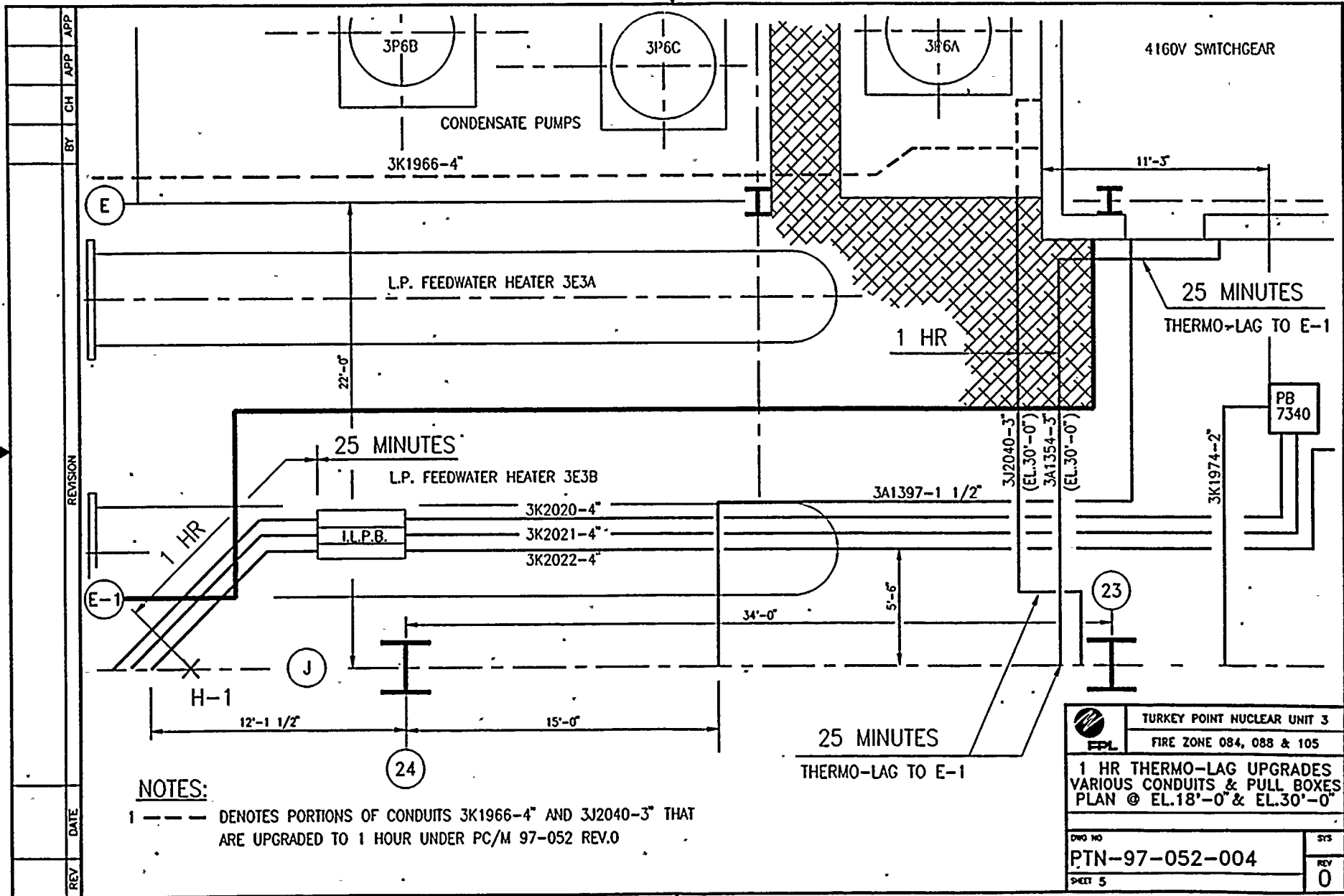




REV	DATE	REVISION	BY	CH	APP	APP

 TURKEY POINT NUCLEAR UNIT 4 FIRE ZONE 079 & 105	
1 HR THERMO-LAG UPGRADES VARIOUS CONDUITS & PULL BOXES EL.30'-0", 18'-0" & BELOW	
DWG NO	SYS
PTN-97-052-004	REV
SHEET 1	0



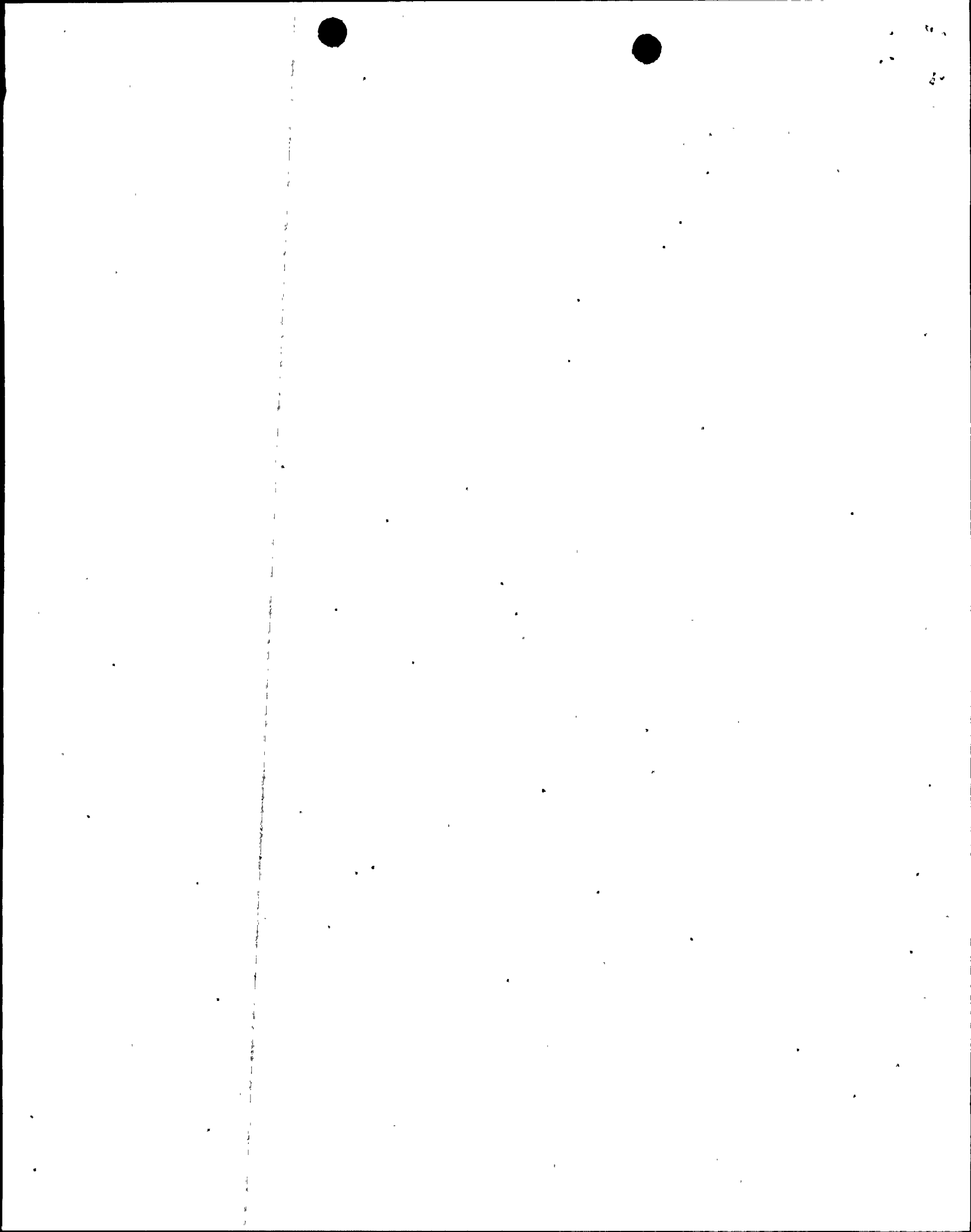


NOTES:

1 - - - DENOTES PORTIONS OF CONDUITS 3K1966-4" AND 3J2040-3" THAT ARE UPGRADED TO 1 HOUR UNDER PC/M 97-052 REV.0

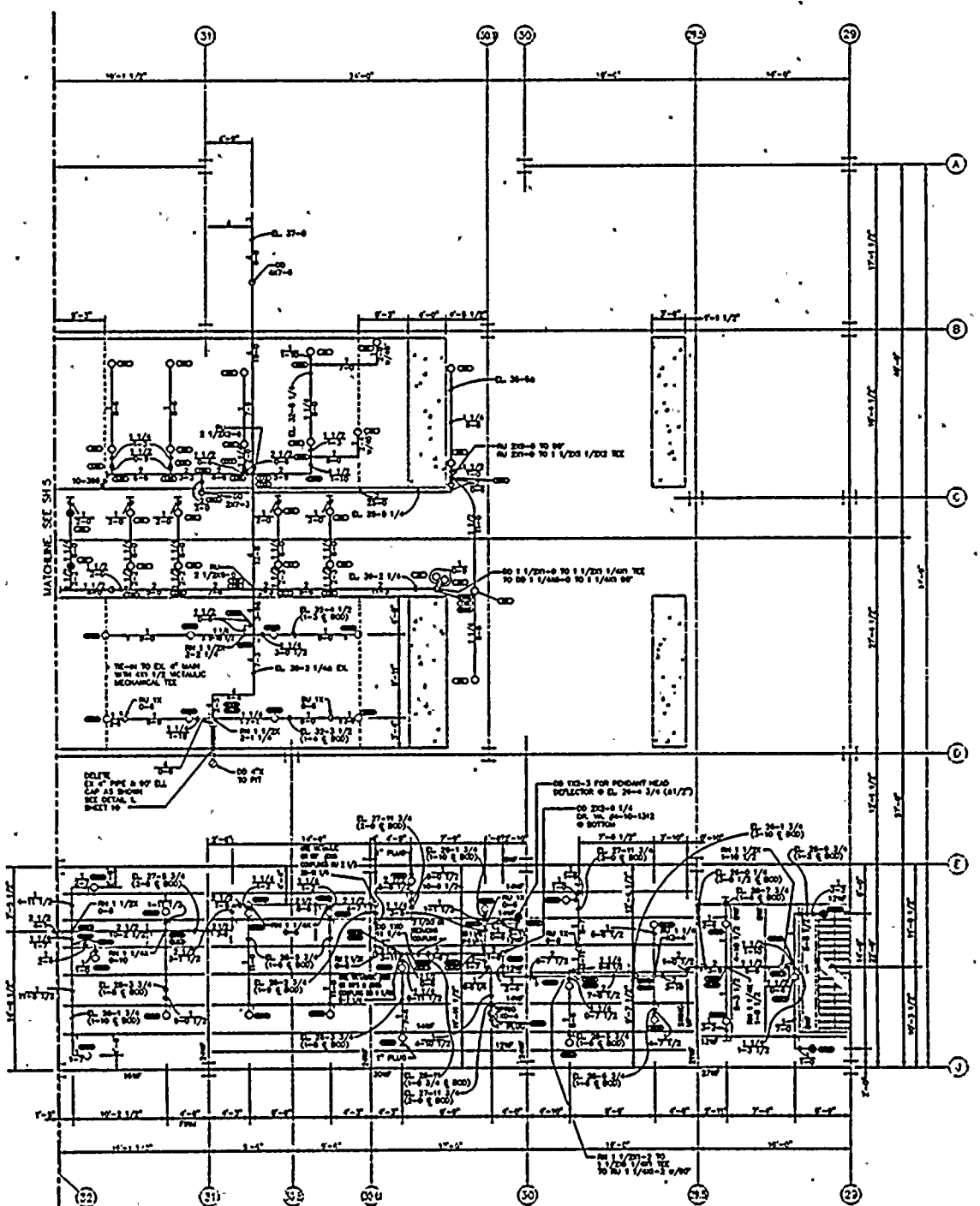
TURKEY POINT NUCLEAR UNIT 3	
FPL	
FIRE ZONE 084, 088 & 105	
1 HR THERMO-LAG UPGRADES VARIOUS CONDUITS & PULL BOXES PLAN @ EL.18'-0" & EL.30'-0"	
DWG NO	SYS
PTN-97-052-004	REV
SHEET 5	0

11.1.17.8 SIZE 14x17
 ptw004ns.dwg





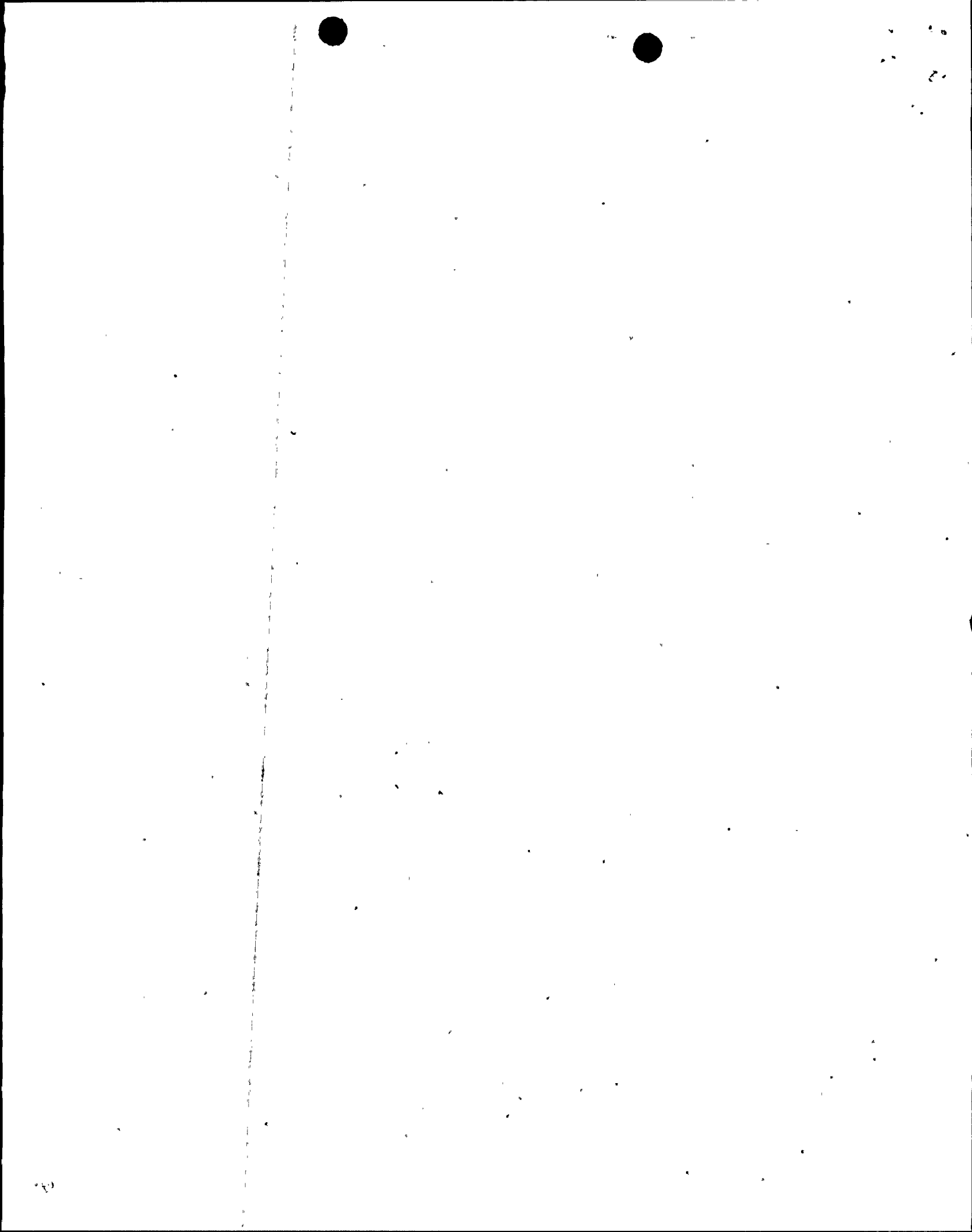
NOTES:
 1. FOR NOTES SEE SHEET 1.
 2. FOR LEGEND SEE SHEET 1.

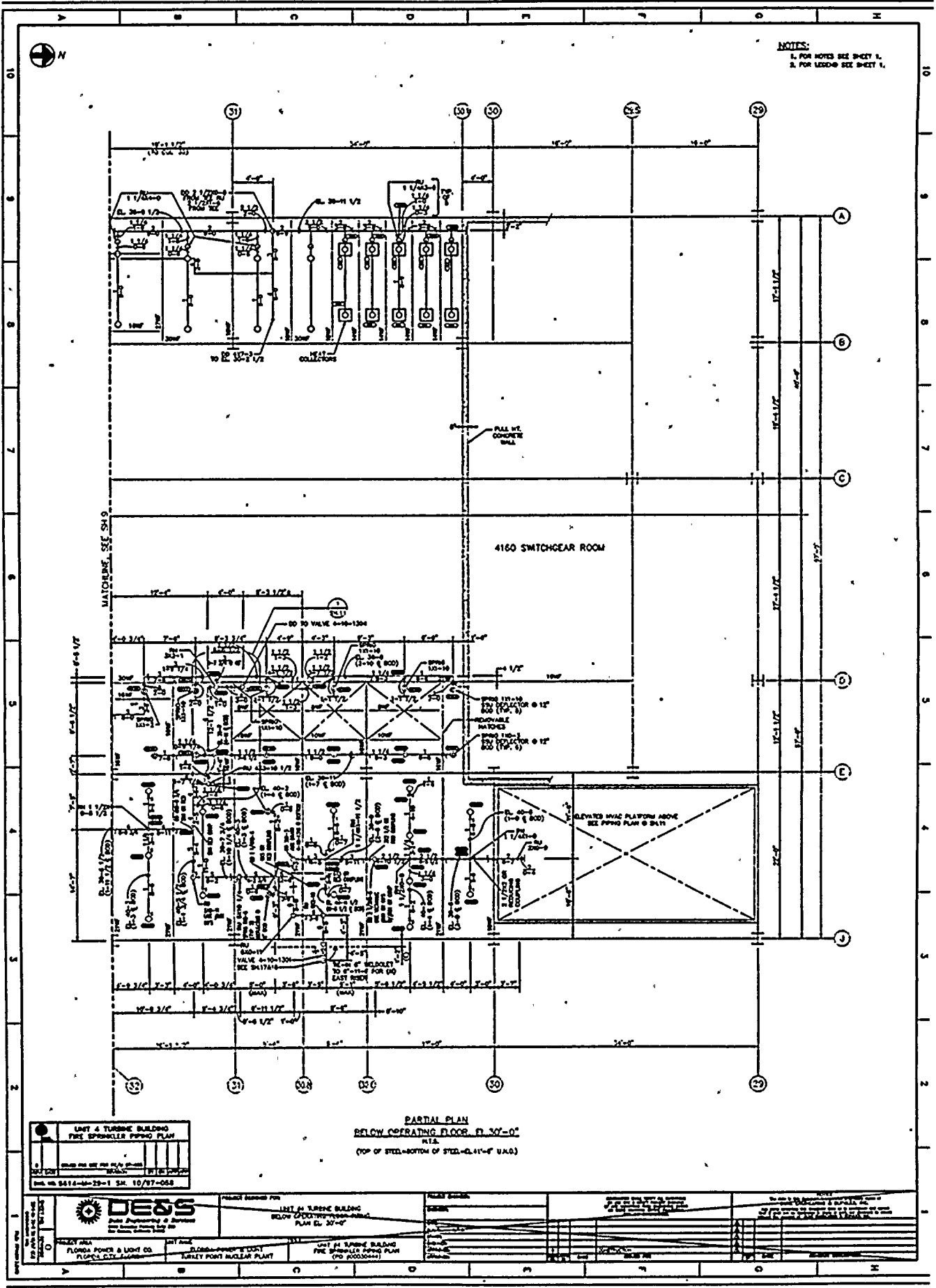


PARTIAL PLAN
 BELOW MEZZANINE FLOOR FL. 16'-0"
 (TOP OF 2ND-FLOOR OF STAIR-CL. 29-11 3/4)

LIGHT 4 TURBINE BUILDING FIRE SPRINKLER PIPING PLAN	
DRAWN BY: [Blank] CHECKED BY: [Blank]	DATE: [Blank]
SHEET NO. 5416-AM-29-1 DTL 8/17-05B	

	PROJECT NO. [Blank]	PROJECT NAME [Blank]	PROJECT LOCATION [Blank]
	CLIENT: FLORIDA POWER & LIGHT CO. FLORIDA CITY SERVICES	PROJECT: TURBINE BUILDING LIGHT 4 TURBINE BUILDING FIRE SPRINKLER PIPING PLAN (NO PROVISIONS)	DRAWN BY: [Blank] CHECKED BY: [Blank]



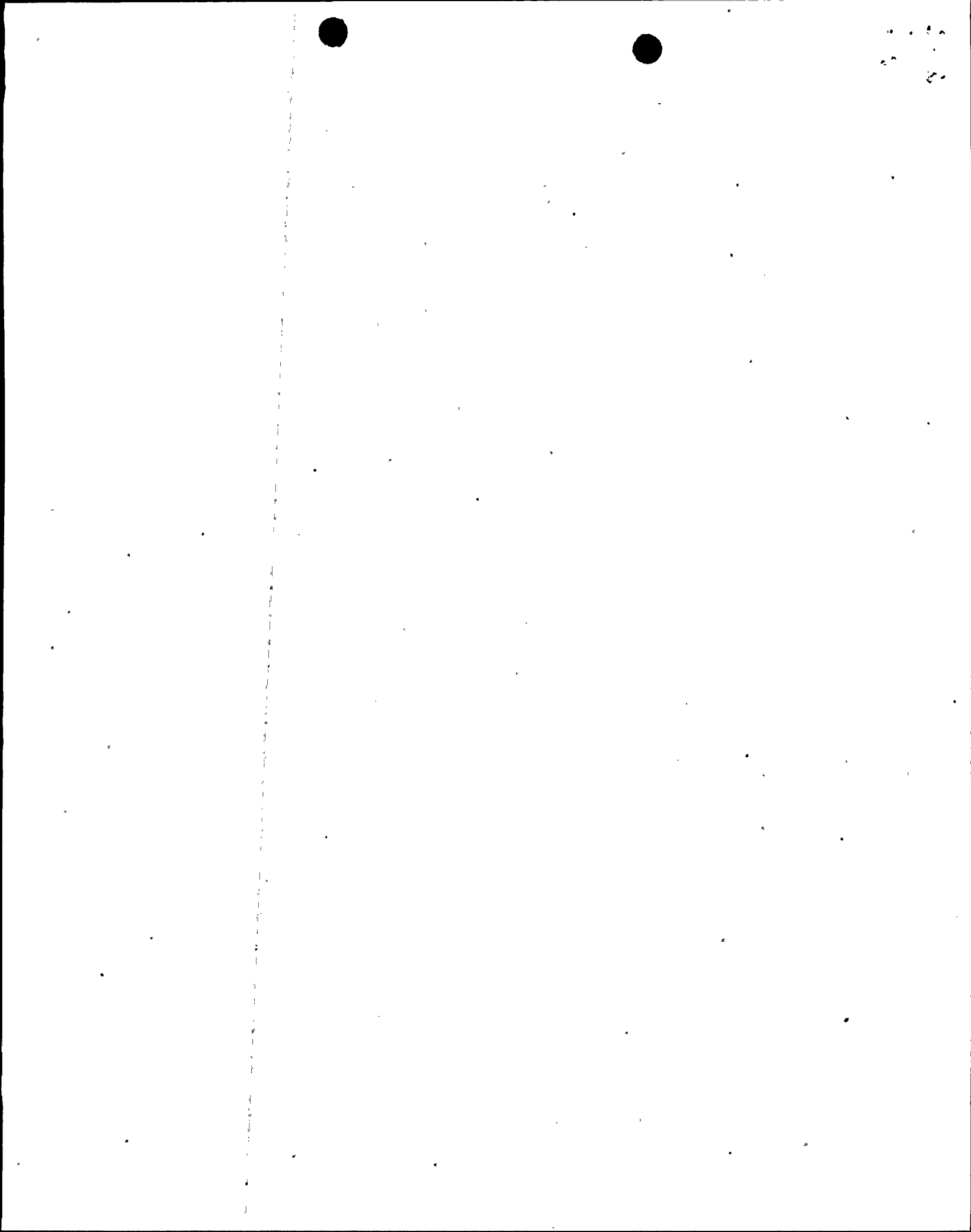


NOTES:
 1. FOR NOTES SEE SHEET 1.
 2. FOR LEGEND SEE SHEET 1.

PARTIAL PLAN
 BELOW OPERATING FLOOR, FL. 30'-0"
 AIA
 (TOP OF STEEL-BOTTOM OF STEEL-CL-11'-6" WALL)

UNIT 4 TURBINE BUILDING FIRE SPRINKLER PIPING PLAN	
DATE	10/27/08
DESIGNED BY	DESS
CHECKED BY	DESS
APPROVED BY	DESS

 DESS Design Engineering & Services 10000 W. 11th Avenue, Suite 100 Denver, CO 80202 Phone: 303.751.1111 Fax: 303.751.1112 www.dess.com	UNIT 4 TURBINE BUILDING BELOW OPERATING FLOOR - AIA PLAN FL. 30'-0"	PROJECT NUMBER: 08-000000-0000 SHEET NO.: 08-000000-0000-0000 DATE: 10/27/08	UNIT 4 TURBINE BUILDING FIRE SPRINKLER PIPING PLAN (FD 00000000)	UNIT 4 TURBINE BUILDING FIRE SPRINKLER PIPING PLAN (FD 00000000)
	UNIT 4 TURBINE BUILDING FLOOR PLAN - AIA PLAN FL. 30'-0"	UNIT 4 TURBINE BUILDING FLOOR PLAN - AIA PLAN FL. 30'-0"	UNIT 4 TURBINE BUILDING FLOOR PLAN - AIA PLAN FL. 30'-0"	UNIT 4 TURBINE BUILDING FLOOR PLAN - AIA PLAN FL. 30'-0"



TURKEY POINT PLANT
Florida Power and Light Company

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