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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
AUTH.NAME AUTHOR AFFILIATION
UHRIG,R.E. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Operating Reactors Branch 1

SUBJECT: Provides response to NUREG-0578 short-term requirements re subcooled margin,plant shielding review & technical support ctr data display.Detailed info on ability of digital data processing sys to supply subcooling data encl.

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TITLE: Resp to Lesson Learn Task Force - Westinghouse

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P.O. BOX 529100, MIAMI, FL 33152

FLORIDA POWER & LIGHT COMPANY

April 4, 1980
L-80-115

Office of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Schwencer:

Re: Turkey Point Units 3 & 4
Docket Nos. 50-250 & 50-251
NUREG-0578 Short Term Requirements

This letter provides the following information regarding implementation of NUREG-0578 short term requirements at Turkey Point Units 3 & 4:

(1) Subcooled Margin

Detailed information on the ability of the plant's Digital Data Processing System (DDPS) computer to supply subcooling data is attached.

(2) Plant Shielding Review

The approximate completion date for the review of equipment environmental qualification (in connection with short term requirement 2.1.6.b) is August 29, 1980.

(3) TSC Data Display

Parametric information will be transmitted from the Control Room to the Technical Support Center (TSC) by using the DDPS. Two CRTs and one on-line printer, with the capability of accessing the DDPS, will be installed in the TSC.

The DDPS contains approximately 500 channels for each nuclear unit. Approximately 450 channels per unit are in use. Each channel has the capability of monitoring one parameter. Since all DDPS channels are accessible from the TSC, all parameters that can be displayed in the Control Room can also be displayed (and printed out) in the TSC.

The TSC Display System described above will be installed

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and operational by July 1, 1980, pending delivery of the CRTs and on-line printer.

Very truly yours,

Robert E Uhrig

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/MAS/RJA/ah

Attachment

cc: J. P. O'Reilly, Region II
Harold F. Reis, Esquire

DDPS BACK-UP SUB-COOLED MARGIN

CALCULATOR:

Data-General 800 Series Computer with core and disk memory systems. Multiplexers and main frame supplied AC power from one of three sources (see Attachment 1).

INPUT:

In-core temperatures are "K" Type Thermocouples, total of fifty-one inputs divided into two junction boxes with reference temperature corrections (RTD's). Reference temperature can be read on recorder in control room. Also thermocouples can be read in control room on same recorder.

DDPS (Plant Computer) parallels the recorder for thermocouple and reference junction readouts. DDPS uses a constant reference junction temperature when calculating temperature from in-core thermocouples inputs.

OUTPUT:

Output of thermocouples and RTD's in reference junction can be read in control room on recorder, printed on DDPS line printer or displayed on CRT in control room.

INPUT ITEMS:

"K" thermocouples 0-2500^{o}F (IPTS 1968)
RTD's three wire platinum 127.48 Ω @ 160^{o}F.

OUTPUT RANGES:

DDPS:	500^{o}F - 1200^{o}F (Incore TC. Limit of Curve-Fit)
Recorder:	550^{o}F - 650^{o}F (Incore TC)
	100^{o}F - 200^{o}F (RTD)

QUALIFICATIONS:

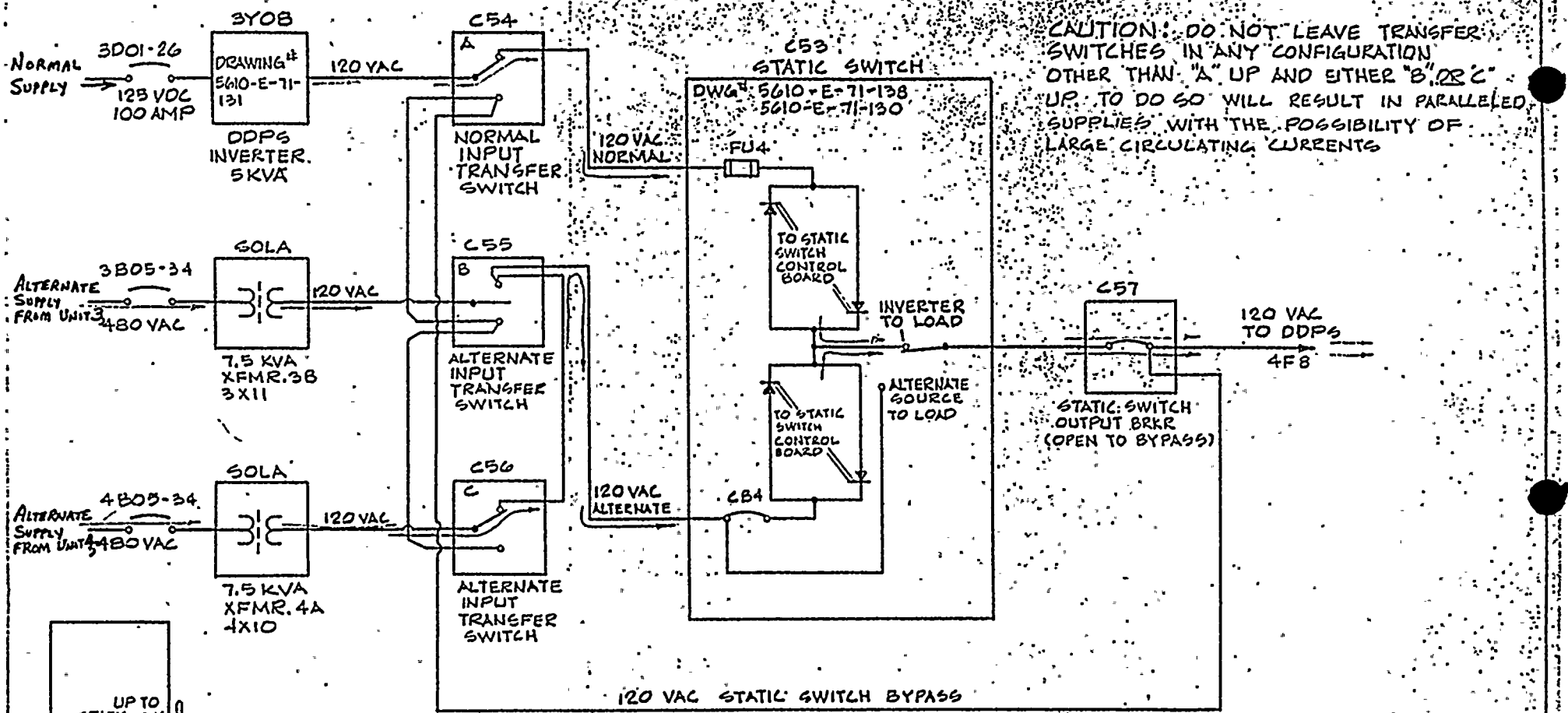
Recorder - Non 1E class component seismic class 1.

DDPS - Powered from vital AC power non-safety grade calculation and inputs (system reliability is > 95%).

Incore TC - Units purchased "Q" list quality class 1. Reference junctions non-1E class. Powered from non-vital power at present (upgrade in consideration for using vital power).

Accuracy -

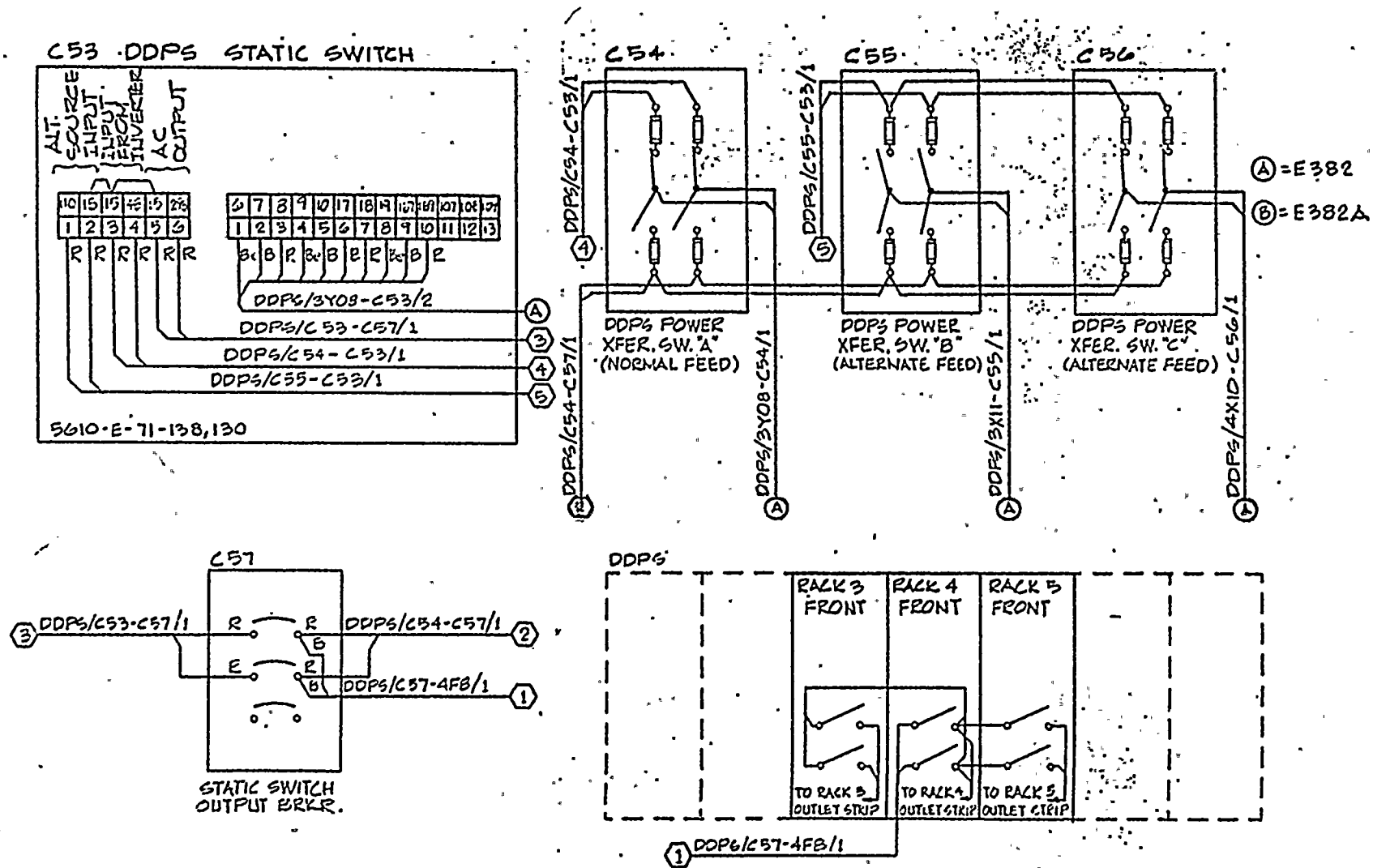
TC Input	± 2.0°F	0-530°F
	± 2.6% of reading	530°F - 700°F
RTD Inputs	± 3.0°F (Based on resistance tolerance at 160°F)	
Recorder	± 0.25% Scale	
DDPS	± 3.0°F (Curve fit)	



NORMAL OPERATION: 1) "A" IN UP POSITION (NORMAL INPUT TO STATIC SWITCH).
2) "B" OR "C" IN UP POSITION (ONE ALTERNATE SOURCE TO STATIC SWITCH).
3) "B" OR "C" (DEPENDING ON 2) IN OFF POSITION (ONE ALTERNATE SOURCE OFF)

CASUALTY OPERATION: (STATIC SWITCH)
1) OPEN C57 STATIC SWITCH OUTPUT BRKR.
2) TURN "A", "B", OR "C" TO DOWN POSITION (BYPASS TO DDPS).

FOR STATIC SWITCH OPERATION, SEE 5610-E-71-140



CHIEF / DIVISION ENGINEER