

September 24, 1996

MEMORANDUM TO: PDIV-I File

FROM: *HA* Tom Alexion

SUBJECT: STATION BLACKOUT MODELING IN THE PROBABILISTIC SAFETY
ANALYSIS FOR PROPOSED STANDBY DIESEL GENERATOR LICENSE
AMENDMENTS, SOUTH TEXAS PROJECT, UNITS 1 AND 2 (STP)
(TAC NOS. M92169 AND M92170)

I received the attached fax from John Flack, who received it from the
licensee.

Docket No. 50-498
and 50-499

Attachment: Fax from Licensee

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Docket File
PUBLIC (PDR)
TAlexion

DOC. NAME: STP92169

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ISBO_INT1.XLWJDG_SBO.XLS

Station Blackout (SBO) Contribution			
Initiators used to calculate SBO			
LOSP	Loss of 345kV Offsite Power		
LOMT	Loss of Power from Main Transformer		
LOSPX	Loss of all Offsite Power		
TLOSP	Loss of 345kV Power		
TLOSPX	Loss of 345kV & 138kV Power		
Frequency of Sequences for:			
Base Case	SBO	3.73E-06	
Base Case	PDS	2.07E-05	
D21AOT	SBO	5.28E-05	
D21AOT	PDS	2.30E-05	
D14RV1	SBO	4.40E-06	
D14RV1	PDS	2.18E-05	
Percent Increase for SBO Frequency from Base Case			
D21AOT			41.81
D14RV1			17.99
Percent Increase for PDS Frequency from Base Case			
D21AOT			10.09
D14RV1			5.28
SBO Percent of Database			
Base Case			18.01
D21AOT			23.03
D14RV1			20.18

Notes

Base Case → Model without request change to DG T/s

D21AOT → Model representing 21 Day submittal

D14RV1 → Model representing 14 Day submittal

SBO → Station Blackout

PDS → Core Damage Frequency