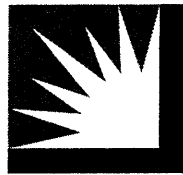


Application No.: 04-02-026
Exhibit No.: SCE-42
Witness: M. Short

Exhibit	SCE-42	
CPUC Proceeding	A. 04-02-026	
Sponsor/Witness	Short	
Date Ident.	6/21/05	Recd. 6/21/05
Jeffrey P. O'Donnell Administrative Law Judge		



SOUTHERN CALIFORNIA
EDISON

An EDISON INTERNATIONAL Company

(U 338-E)

Compliance Filing

Before the
Public Utilities Commission of the State of California

Rosemead, California
May 26, 2005

**Dominion Engineering, Inc. (DEI) Steam Generator Degradation Forecast
Probability of Shutdown**

SONGS 2									
End of Cycle	Data Used In Figure II-6, Updated				Data Used In Original SCE-2 SGR Filing, Figure II-6				
	Refueling Outage	Approx Outage Date	Probability of Shutdown		Reference Date	Probability of Shutdown		Notes	
			DEI Sept 04	DEI June 03		SCE Qualitative	SCE Qualitative w/ DEI June 03 Forecast		
15	16	Oct-09	12%	18%	2009	7%	25%	1	
16	17	Jul-11	32%	37%	2011	14%	51%		
17	18	Apr-13	70%	68%	2012	12%	68%		
18	19	Jan-15	94%	77%	2014	23%	100%		
19	20	Oct-16	99%	92%	2016	8%	100%	1	
20	21	Jul-18	100%	98%	2018	2%	100%		
21	22	Apr-20	100%	100%	2019	0%	100%		
22	23	Dec-21	100%	100%	2021	0%	100%		

Note 1 - This data point was mentioned in direct testimony (SCE-2)

SONGS 3									
End of Cycle	Data Used In Figure II-7, Updated				Data Used In Original SCE-2 SGR Filing, Figure II-7				
	Refueling Outage	Approx Outage Date	Probability of Shutdown		Reference Date	Probability of Shutdown		Notes	
			DEI May 05	DEI June 03		SCE Qualitative	SCE Qualitative w/ DEI June 03 Forecast		
15	16	Oct-10	1%	3%	2009	12%	15%	1	
16	17	Jul-12	8%	8%	2011	14%	22%		
17	18	Apr-14	26%	19%	2013	16%	35%		
18	19	Jan-16	45%	32%	2015	22%	54%		
19	20	Oct-17	63%	45%	2016	30%	75%	1	
20	21	Jul-19	78%	59%	2018	41%	100%		
21	22	Apr-21	90%	73%	2020	27%	100%		

Note 1 - This data point was mentioned in direct testimony (SCE-2)

Figure II-6, Updated
 SONGS 2 Probability of Shutdown Due to Steam Generators

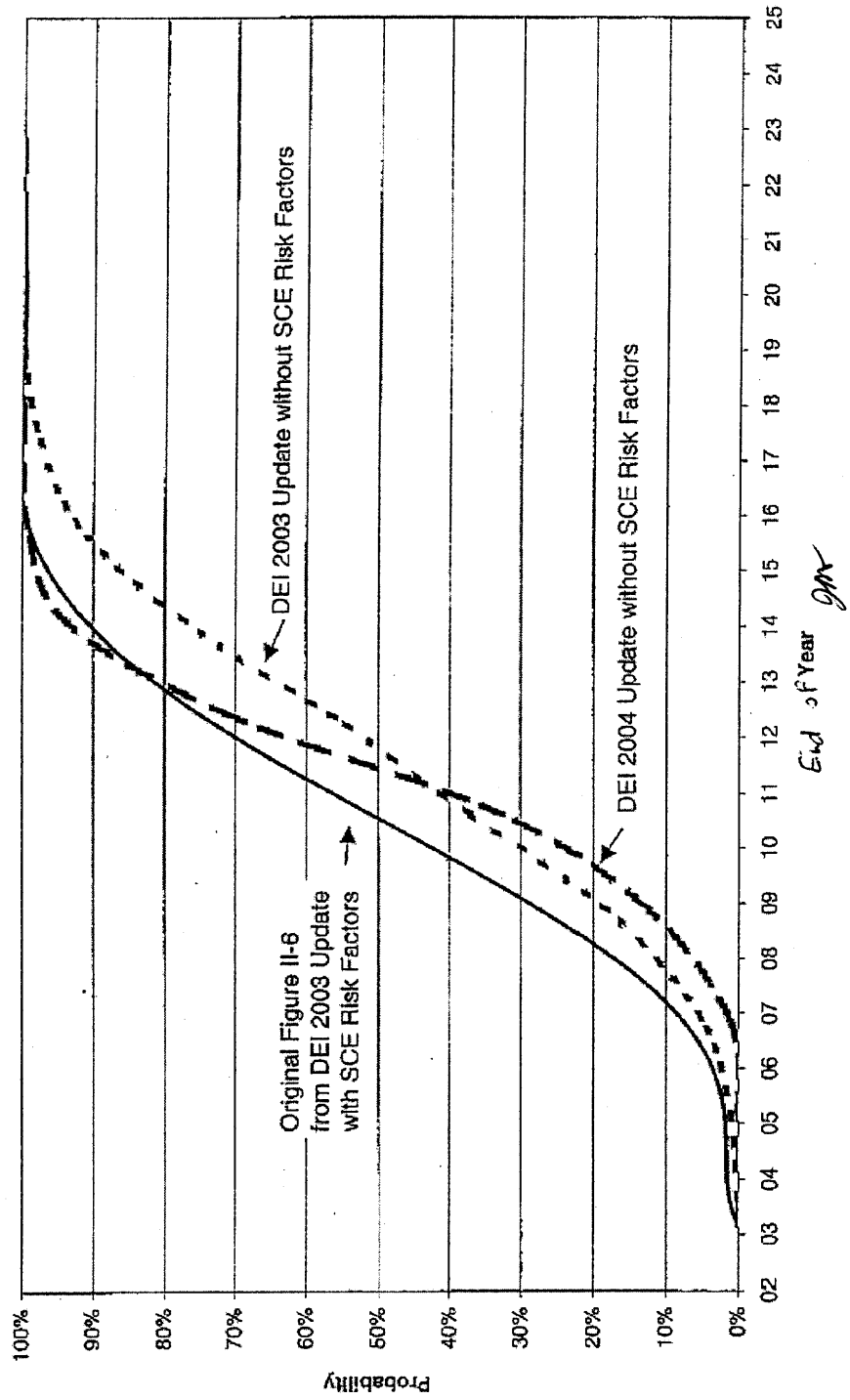
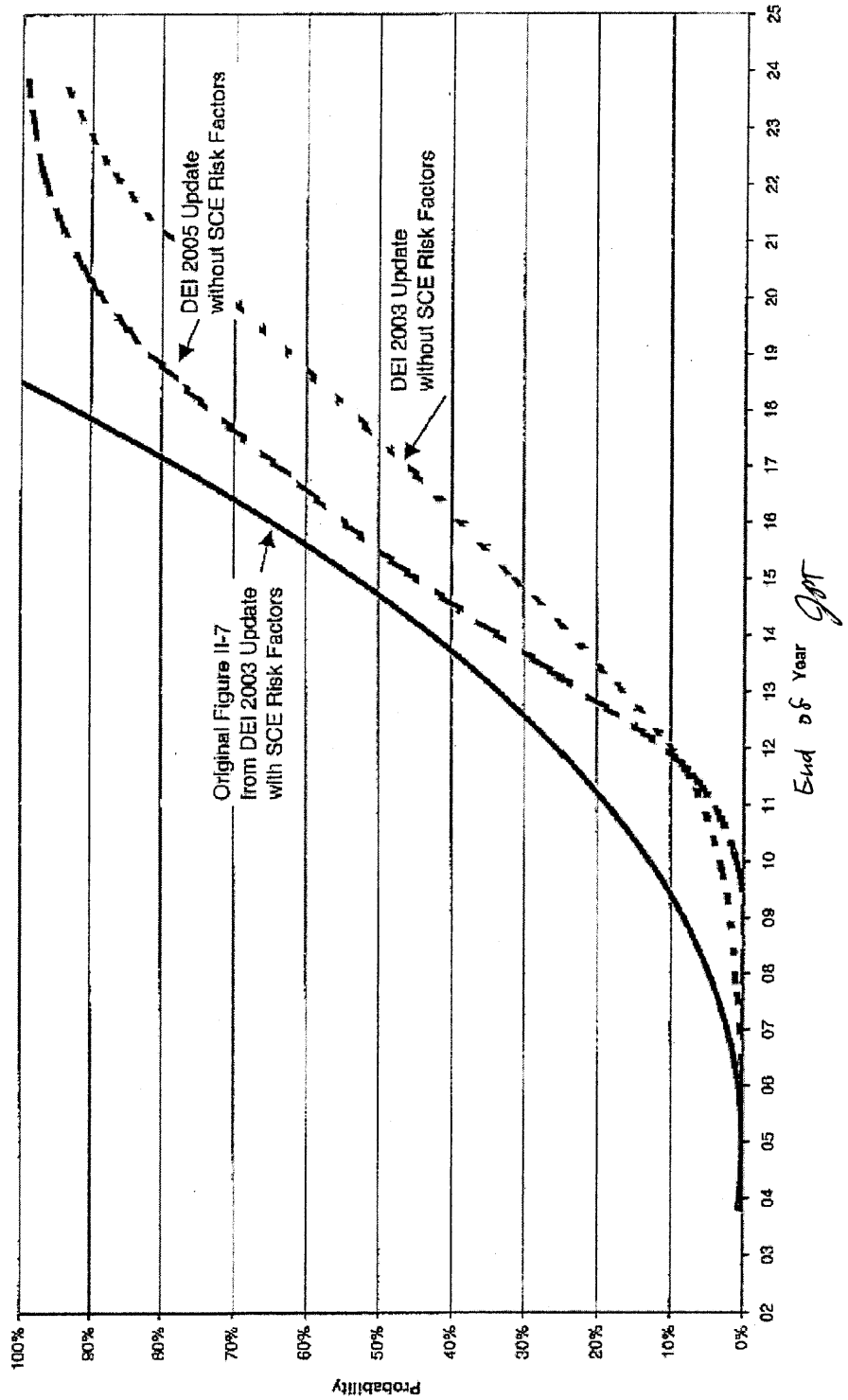


Figure II-7, Updated
 Unit 3 Probability of Shutdown Due to Steam Generators



DEI Steam Generator Degradation Forecast
Probability of Shutdown

Workpapers

Table 1

San Onofre Nuclear Generating Station, Unit 2
 Probability of >2000 Equivalent Tubes Plugged or Probability of >2000 Tubes
 Plugged or Sleeved In Either SG

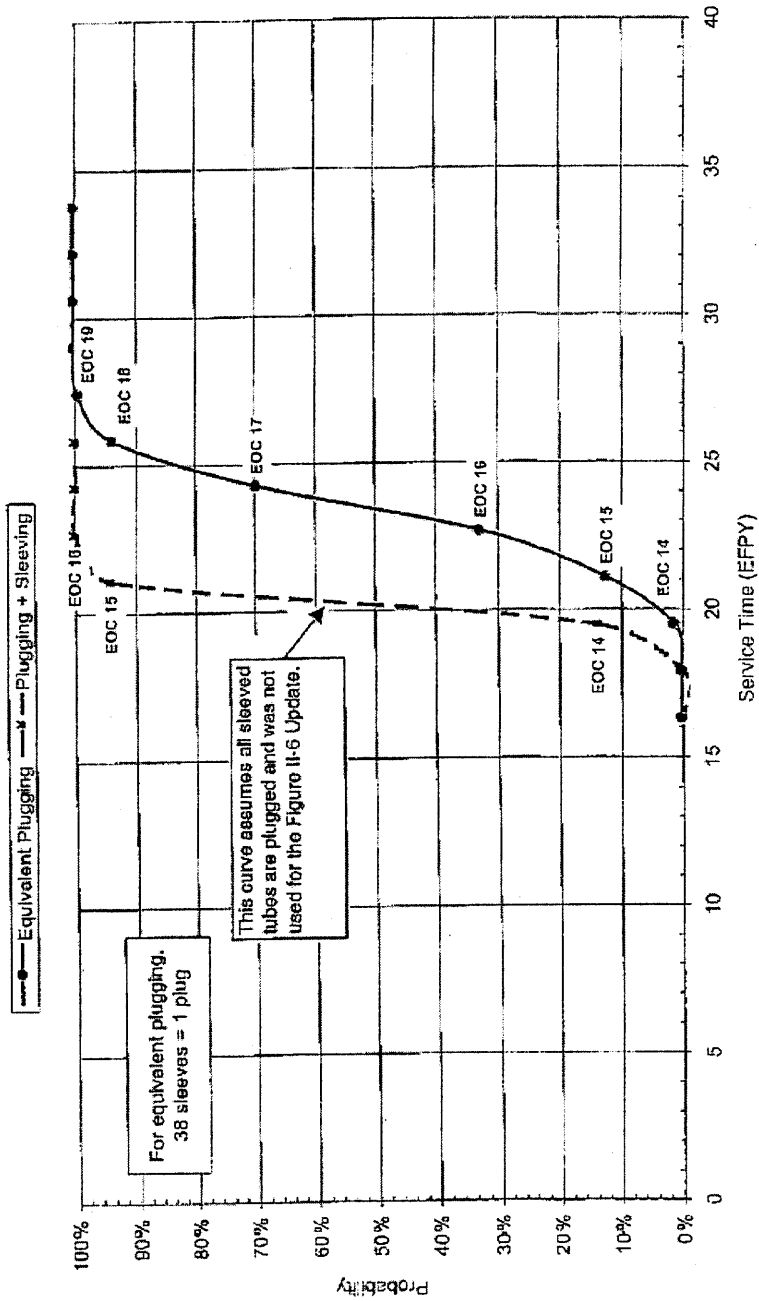
Outage	Estimated EFPYs	Probability Equivalent Plugging >2000 Tubes
EOC 12	16.3	0.00%
EOC 13	17.9	0.00%
EOC 14	19.5	1.22%
EOC 15	21.1	12.26%
EOC 16	22.7	32.45%
EOC 17	24.2	69.52%
EOC 18	25.8	93.64%
EOC 19	27.4	99.30%
EOC 20	29.0	99.95%
EOC 21	30.6	100.00%
EOC 22	32.2	100.00%
EOC 23	33.8	100.00%

↑
 Probability information should
 be considered valid to two
 significant figures.

DOMINION ENGINEERING, INC.

Figure 5

San Onofre Nuclear Generating Station, Unit 2
Probability of >2000 Equivalent Tubes Plugged or Probability of >2000 Tubes
Plugged or Sleeved In Either SG



7/7/2004

SONGS 2 Aggregate (SG 88) 02a.xls

Table 1

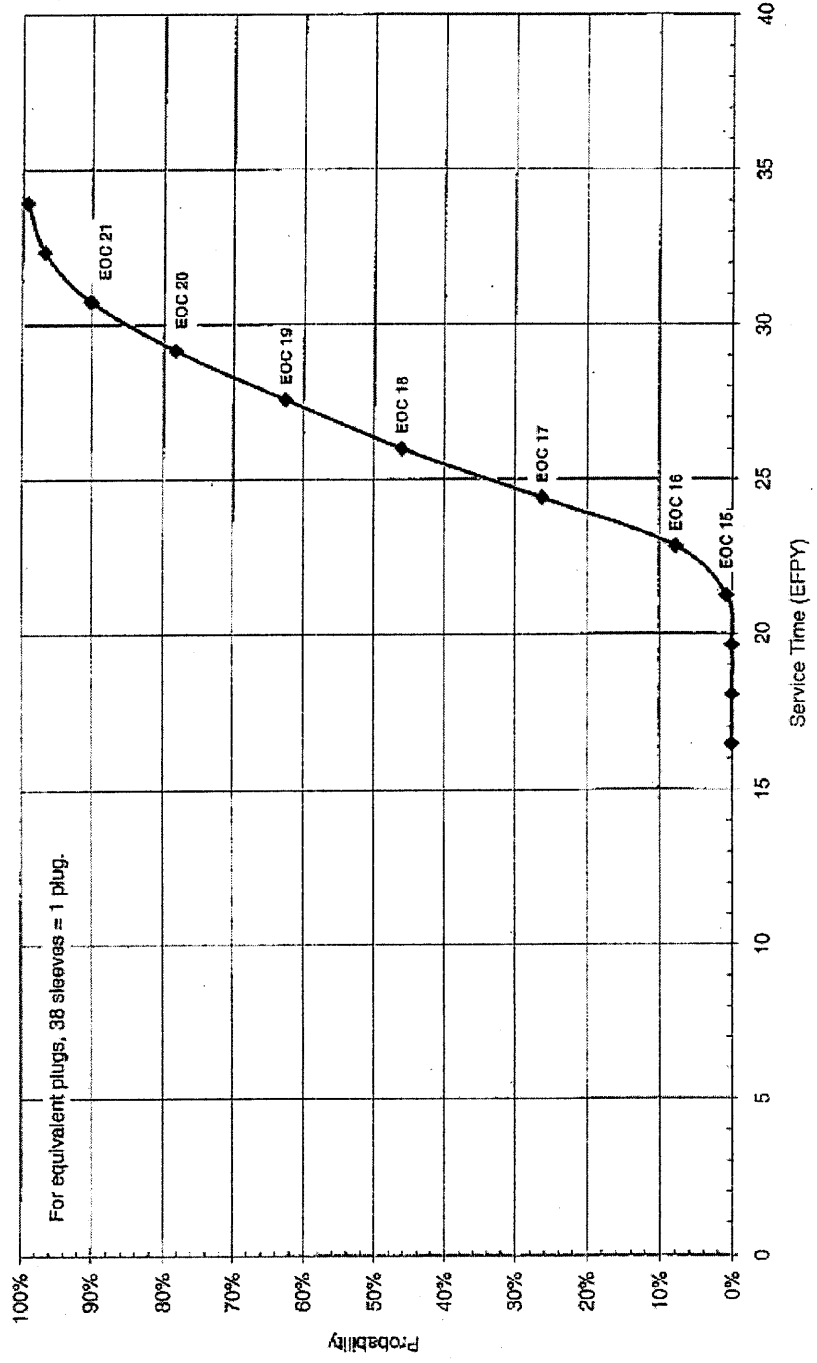
San Onofre Nuclear Generating Station, Unit 3
Probability of >2000 Equiv. Tubes Plugged in Either SG - $T_{hot} = 596^{\circ}\text{F}$

Outage	Estimated EFPYs	Probability Equiv. Plugging >2000 Tubes
EOC 12	16.5	0.0%
EOC 13	18.1	0.0%
EOC 14	19.6	0.0%
EOC 15	21.2	0.7%
EOC 16	22.8	7.7%
EOC 17	24.4	26.3%
EOC 18	26.0	46.0%
EOC 19	27.6	62.6%
EOC 20	29.2	78.3%
EOC 21	30.8	90.1%
EOC 22	32.4	96.7%
EOC 23	33.9	99.3%

↑
 Probability information should
 be considered valid to two
 significant figures.

Figure 5

**San Onofre Nuclear Generating Station, Unit 3
Probability of >2000 Equiv. Tubes Plugged in Either SG - $T_{hot} = 596^{\circ}F$**



CERTIFICATE OF SERVICE

I hereby certify that, pursuant to the Commission's Rules of Practice and Procedure, I have this day served a true copy of COMPLIANCE FILING OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) on all parties identified on the attached service list(s). Service was effected by one or more means indicated below:

- Transmitting the copies via e-mail to all parties who have provided an e-mail address. First class mail will be used if electronic service cannot be effectuated.
- Placing the copies in sealed envelopes and causing such envelopes to be delivered by hand or by overnight courier to the offices of the Commission or other addressee(s).
- Placing copies in properly addressed sealed envelopes and depositing such copies in the United States mail with first-class postage prepaid to all parties.
- Directing Prographics to place the copies in properly addressed sealed envelopes and to deposit such envelopes in the United States mail with first-class postage prepaid to all parties.

Executed this **26th day of May, 2005**, at Rosemead, California.

Jessica Hackenberg
Project Analyst
SOUTHERN CALIFORNIA EDISON COMPANY

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