



Log # TXX-96521
File # 10119
Ref. # NRCB 96-01

December 13, 1996

C. Lance Terry
Group Vice President

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)
DOCKET NOS. 50-445 AND 50-446
SUPPLEMENTAL RESPONSE TO NRC BULLETIN NO. 96-01:
CONTROL ROD INSERTION PROBLEMS

- REF: 1) TU Electric letter logged TXX-96096 from C. L. Terry to the NRC dated April 8, 1996.
2) TU Electric letter logged TXX-96510 from C. L. Terry to the NRC dated November 14, 1996.

Gentlemen:

TU Electric responded to NRC Bulletin 96-01 via Reference 1.

Requested Action (3) from the bulletin required that TU Electric measure and evaluate at each outage of sufficient duration during calendar year 1996 (end of cycle, maintenance, etc.) the control rod drop times and rod recoil data for all control rods, and if appropriate plant conditions exist where the vessel head is removed, measure and evaluate drag forces for all rodged fuel assemblies.

Requested Action (4) from the bulletin required that for each reactor trip during calendar year 1996, TU Electric verify that all control rods promptly fully inserted (bottomed) and obtain other available information to assess the operability and any performance trend of the rods.

TU Electric obtained rod drop times, rod recoil data, and drag force data at the end of cycle for Unit 1, Cycle 5 during the fifth refueling outage for Unit 1. The results were submitted to the NRC via Reference 2.

TU Electric subsequently obtained rod drop times, rod recoil data, and drag force data at the beginning of cycle 6 for Unit 1. The results are included in Attachment 1. During the rod drop time testing, each Rod Control Cluster Assembly (RCCA) exhibited a minimum of two recoils and no significant outliers were noted in the drag force data.

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If you have any questions regarding the attached information, please contact Mr. J. D. Seawright at (817) 897-0140.

Sincerely,

C. L. Terry
C. L. Terry

By: *Roger D. Walker*
Roger D. Walker
Regulatory Affairs Manager

JDS/grp
Attachment

c - Mr. L. J. Callan, Region IV
Mr. T. J. Polich, NRR
Mr. J. I. Tapia, Region IV
Resident Inspector, CPSES

Comanche Peak - Unit 1, Cycle 06

Rod Bank	Core Loc	Assm ID	Fuel Type	Startup BOC	
				Burnup (MWD/MTU)	Time (sec)
CBA	H-06	G88	Siemens "PCA" Zirc-4	26192	1.47
CBA	H-10	G76	Siemens "PCA" Zirc-4	26213	1.45
CBA	F-08	G34	Siemens "PCA" Zirc-4	26070	1.44
CBA	K-08	G19	Siemens "PCA" Zirc-4	26066	1.48
CBB	F-02	G54	Siemens "PCA" Zirc-4	17903	1.48
CBB	B-10	G78	Siemens "PCA" Zirc-4	17689	1.48
CBB	K-14	G69	Siemens "PCA" Zirc-4	17784	1.46
CBB	P-06	G83	Siemens "PCA" Zirc-4	17726	1.45
CBB	B-06	G30	Siemens "PCA" Zirc-4	18244	1.44
CBB	F-14	G61	Siemens "PCA" Zirc-4	17798	1.45
CBB	P-10	G08	Siemens "PCA" Zirc-4	18068	1.45
CBB	K-02	G22	Siemens "PCA" Zirc-4	18104	1.45
CBC	H-02	G71	Siemens "PCA" Zirc-4	23607	1.46
CBC	B-08	G48	Siemens "PCA" Zirc-4	23774	1.45
CBC	H-14	G46	Siemens "PCA" Zirc-4	23805	1.48
CBC	P-08	G82	Siemens "PCA" Zirc-4	23789	1.46
CBC	F-06	G60	Siemens "PCA" Zirc-4	25781	1.45
CBC	F-10	G66	Siemens "PCA" Zirc-4	25717	1.46
CBC	K-10	G55	Siemens "PCA" Zirc-4	25754	1.47
CBC	K-06	G29	Siemens "PCA" Zirc-4	25622	1.47
CBD	D-04	G64	Siemens "PCA" Zirc-4	25973	1.45
CBD	M-12	G67	Siemens "PCA" Zirc-4	25897	1.48
CBD	D-12	G80	Siemens "PCA" Zirc-4	25899	1.46
CBD	M-04	G31	Siemens "PCA" Zirc-4	25796	1.51
CBD	H-08	C29	Westinghouse "Standard" Zirc-4	18175	1.49
SBA	D-02	G36	Siemens "PCA" Zirc-4	27178	1.46
SBA	B-12	G53	Siemens "PCA" Zirc-4	27286	1.46
SBA	M-14	G03	Siemens "PCA" Zirc-4	27222	1.47
SBA	P-04	G26	Siemens "PCA" Zirc-4	27151	1.46
SBA	B-04	G79	Siemens "PCA" Zirc-4	26882	1.46
SBA	D-14	G68	Siemens "PCA" Zirc-4	26832	1.47
SBA	P-12	G88	Siemens "PCA" Zirc-4	26751	1.47
SBA	M-02	G43	Siemens "PCA" Zirc-4	26870	1.46
SBB	G-03	G56	Siemens "PCA" Zirc-4	21628	1.44
SBB	C-09	G18	Siemens "PCA" Zirc-4	21369	1.44
SBB	J-13	G94	Siemens "PCA" Zirc-4	21666	1.45
SBB	N-07	G05	Siemens "PCA" Zirc-4	21738	1.45
SBB	C-07	G65	Siemens "PCA" Zirc-4	21992	1.47
SBB	G-13	G01	Siemens "PCA" Zirc-4	21860	1.45
SBB	N-09	G17	Siemens "PCA" Zirc-4	21282	1.45
SBB	J-03	G42	Siemens "PCA" Zirc-4	21983	1.44
SBC	E-03	G39	Siemens "PCA" Zirc-4	19012	1.47
SBC	C-11	G35	Siemens "PCA" Zirc-4	18892	1.45
SBC	L-13	G89	Siemens "PCA" Zirc-4	18700	1.47
S3C	N-05	G91	Siemens "PCA" Zirc-4	18784	1.44
SBD	C-05	C92	Siemens "PCA" Zirc-4	18786	1.43
SBD	E-13	G72	Siemens "PCA" Zirc-4	18750	1.46
SBD	N-11	G49	Siemens "PCA" Zirc-4	18717	1.44
SBD	L-03	G15	Siemens "PCA" Zirc-4	18681	1.45
SBE	H-04	G04	Siemens "PCA" Zirc-4	23935	1.44
SBE	D-08	G62	Siemens "PCA" Zirc-4	23930	1.42
SBE	H-12	G24	Siemens "PCA" Zirc-4	23570	1.45
SBE	M-08	G13	Siemens "PCA" Zirc-4	23672	1.44

Average Rod Drop Time: 1.46

Standard Deviation: 0.016

Comanche Peak - Unit 1, Cycle 06
1RF05 Control Rod Drive Shaft LATCH

Rod Bank	Core Location	Assembly ID	Fuel Type	RCCA Latch Drag Force (lbs)	
				Dashpot Region	Out of Dashpot Region
CBA	H-06	G86	Siemens "PCA" Zirc-4	7	5
CBA	H-10	G76	Siemens "PCA" Zirc-4	15	5
CBA	F-08	G34	Siemens "PCA" Zirc-4	10	5
CBA	K-08	G19	Siemens "PCA" Zirc-4	10	5
CBB	F-02	G54	Siemens "PCA" Zirc-4	10	5
CBB	B-10	G78	Siemens "PCA" Zirc-4	10	5
CBB	K-14	G69	Siemens "PCA" Zirc-4	15	5
CBB	P-06	G83	Siemens "PCA" Zirc-4	15	5
CBB	B-06	G30	Siemens "PCA" Zirc-4	5	5
CBB	F-14	G61	Siemens "PCA" Zirc-4	5	5
CBB	P-10	G08	Siemens "PCA" Zirc-4	15	5
CBB	K-02	G22	Siemens "PCA" Zirc-4	10	10
CBC	H-02	G71	Siemens "PCA" Zirc-4	15	15
CBC	B-08	G48	Siemens "PCA" Zirc-4	5	0
CBC	H-14	G46	Siemens "PCA" Zirc-4	15	10
CBC	P-08	G82	Siemens "PCA" Zirc-4	15	10
CBC	F-06	G60	Siemens "PCA" Zirc-4	15	10
CBC	F-10	G66	Siemens "PCA" Zirc-4	5	0
CBC	K-10	G55	Siemens "PCA" Zirc-4	30	5
CBC	K-06	G29	Siemens "PCA" Zirc-4	15	5
CBD	D-04	G64	Siemens "PCA" Zirc-4	15	15
CBD	M-12	G67	Siemens "PCA" Zirc-4	15	10
CBD	D-12	G80	Siemens "PCA" Zirc-4	15	10
CBD	M-04	G31	Siemens "PCA" Zirc-4	15	10
CBD	H-08	C29	Westinghouse "Standard" Zirc-4	7	5
SBA	D-02	G36	Siemens "PCA" Zirc-4	15	10
SBA	B-12	G53	Siemens "PCA" Zirc-4	10	5
SBA	M-14	G03	Siemens "PCA" Zirc-4	10	5
SBA	P-04	G26	Siemens "PCA" Zirc-4	15	5
SBA	B-04	G79	Siemens "PCA" Zirc-4	15	10
SBA	D-14	G68	Siemens "PCA" Zirc-4	10	5
SBA	P-12	G88	Siemens "PCA" Zirc-4	15	5
SBA	M-02	G43	Siemens "PCA" Zirc-4	15	5
SBB	G-03	G56	Siemens "PCA" Zirc-4	10	10
SBB	C-09	G18	Siemens "PCA" Zirc-4	10	5
SBB	J-13	G94	Siemens "PCA" Zirc-4	15	10
SBB	N-07	G05	Siemens "PCA" Zirc-4	20	5
SBB	C-07	G65	Siemens "PCA" Zirc-4	5	5
SBB	G-13	G01	Siemens "PCA" Zirc-4	10	0
SBB	N-09	G17	Siemens "PCA" Zirc-4	25	10
SBB	J-03	G42	Siemens "PCA" Zirc-4	10	5
SBC	E-03	G39	Siemens "PCA" Zirc-4	10	5
SBC	C-11	G35	Siemens "PCA" Zirc-4	10	5
SBC	L-13	G89	Siemens "PCA" Zirc-4	15	10
SBC	N-05	G91	Siemens "PCA" Zirc-4	15	5
SBD	C-05	G92	Siemens "PCA" Zirc-4	5	5
SBD	E-13	G72	Siemens "PCA" Zirc-4	10	5
SBD	N-11	G49	Siemens "PCA" Zirc-4	25	10
SBD	L-03	G15	Siemens "PCA" Zirc-4	10	5
SBE	H-04	G04	Siemens "PCA" Zirc-4	10	10
SBE	D-08	G62	Siemens "PCA" Zirc-4	20	10
SBE	H-12	G24	Siemens "PCA" Zirc-4	15	10
SBE	M-08	G13	Siemens "PCA" Zirc-4	15	5