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 SORENSEN, G.C. Washington Public Power Supply System  
 RECIP. NAME RECIPIENT AFFILIATION  
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Forwards response to SER (NUREG-0892) Confirmatory Issue 7  
 Question 110.42 re component supports. Data quantifies:  
 difference between support design load w/& w/o inclusion  
 of thermal loads.

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## Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

September 14, 1983  
G02-83-831

Docket No. 50-397

Director of Nuclear Reactor Regulation  
Attention: Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2  
NUREG-0892, SAFETY EVALUATION REPORT,  
CONFIRMATORY ISSUE NO. 7 - COMPONENT SUPPORTS  
(FSAR QUESTION 110.42)

- References:
- 1) Letter, A. Schwencer (NRC) to D. W. Mazur (SS),  
dated August 3, 1983
  - 2) Letter, G02-83-584, G. D. Bouchev (SS) to A.  
Schwencer (NRC), "Safety Evaluation Report  
(NUREG-0892) Confirmatory Issue No. 7 -  
Component Supports", dated June 30, 1983
  - 3) Letter, G02-82-1021, G. D. Bouchev (SS) to A.  
Schwencer, same subject, dated December 30, 1982

The attached information is provided in response to reference 1, question 110.42, and as agreed in recent telephone conversations (9/1/83) between NRC (R. Auluck) and Supply System (P. L. Powell) staff.

The attachment tabulates those supports identified in reference 2, paragraphs 2b.18 and 2b.19. This data quantifies the difference between the support design load with and without the inclusion of the thermal loads (faulted load combination including piping thermal expansion induced loads).

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A. Schwencer

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September 14, 1983

NUREG-0892, SAFETY EVALUATION REPORT, CONFIRMATORY ISSUE NO. 7 -  
COMPONENT SUPPORTS (FSAR QUESTION 110.42)

Should you have any questions, please contact Mr. P. L. Powell, Acting  
Manager, WNP-2 Licensing.

Very truly yours,

*Alan Hoster Bar*

G. C. Sorensen, Acting Manager  
Nuclear Safety and Regulatory Programs

PWH/tmh  
Enclosure

cc: R Auluck - NRC  
WS Chin - BPA  
A Toth - NRC Site



10-1-73

10-1-73

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 13

215	2413	3143
216	2549	2584
2121	3923	5802
21	2941 (3132)	4345
620	4516	5165
1093	4290 (4293)	6342
1011	1726	1901
397	1740	1908

Anchor Group 17

390	7686	7745
16/62	20961	22219
16/67	17183	18077

Anchor Group 18

16	20123	20690
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Anchor Group 20

601	500	600
41z	450	550
41x	300	400
1515	150 (200)	250
1535	150 (200)	250
1525	150 (200)	250

Anchor Group 23

10	21512	22226
14	17537	19849
2020	57913	63704
1140	22632	23393
44	58531	58734
50	28889 (32386)	40796
57	48964	53898
61	78806	86917
1185	27524	27869

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 24

1109x	1497	1971
1109y	1454 (1713)	2195
114	1661	1675
1222	779 (1257)	1629
1250z	883 (955)	1393
703x	1040	1061
703z	1734	2040
173	903 (911)	1358
1086	1117	1380
98	1974	1976
102y	1069	1346
102z	1764	2368

Anchor Group 25 \* NOTE: All supports passed in Phase II Sample

30Fx	10959	14896
30Fy	2078	2206
30Fz	1144	1271
30Mx	5231	5468
30My	1413	1438
30Mz	22964	30616
99	9672	9760
371	8281 (14062)	18163
380	5017 (12037)	14545
382	7064 (13030)	16443
602	3708 (6086)	7867
278	6958	7222
406	162 (283)	363
411	246 (329)	452
412	65	80
256z	2295	2591
256x	4253	4672
499	2063	2354
296z	1344 (1456)	2128
239Fx	5810 (12045)	14866
239Fz	11706 (18647)	24475
239Mx	61908 (77883)	108768
239My	11641 (20110)	25859
239Mz	37676 (65730)	84314
284Fx	3220	4395
284Fz	3612	4213
284Mx	4236 (5769)	7562
284My	24994	26436
284Mz	14844 (18394)	24710

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 25 (Continued)

250Fz	4480	6188
250Mx	23264 (31889)	43160
250My	29472 (35502)	49882
42My	38822 (44925)	55465

Anchor Group 26

92x	178	212
85x	53	62
36x	224 (443)	551
150x	271	330
59z	267	324
59x	460	535
65x	479	530
8x	81	100
104Fx	112	120
104Mx	167	170
104Mz	315	326
415Fx	236	264
415Fz	60 (97)	127
415My	256 (502)	629
415Mz	404	556
70Fx	956	1052
70Fy	5033	5035
70Fz	776	797
70My	1547	1701
108x	220	269
108y	397	398
244y	1178 (1317)	1690
240	2275 (4064)	5101
1148	1716	1856
152y	1414	1647
152z	701	866
1237x	774 (1087)	1465
1237z	660	800
1109x	259	281
1144x	414	460
1144z	987	989
1120x	143	178
1209	20 (33)	42
1213x	105	150
206Fx	99	119
206Fz	36 (47)	65
206Mx	78 (80)	121
206My	136 (214)	281
206Mz	118 (181)	236

(Continued)

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 26 (Continued)

251Fx	643	665
251Fy	12678	12705
251Mx	15922	16049
251My	1535	1641
251Mz	1498 (2127)	2850

Anchor Group 27

452	24753	26571
100y	2188	2234
25x	322	329
25y	711 (1010)	1219
19x	210	211
29x	237	258
29z	132	196
24	83	86
430	284	311
511	603 (645)	945
21	93	96
153Fx	4822	5804
153My	3032 (3893)	5353
153Mz	13381	13931
432Fx	575 (660)	944
432Fy	1290	1300
432Fz	300	425
432My	583	746
15Fx	368 (723)	877
15Fy	4371	4453

Anchor Group 28 \*NOTE: All supports passed in Phase II Sample

15	6296	6578
800x	3925	4367
800z	2286	3207
164	4730	6663
640	14423	17690
600	4133	5069
57	2211 (3061)	4015
53x	2942 (3427)	4828
53z	3550	3852
4Fx	3495	3640
4My	8076	8588
48Fx	2272	2610
48Fz	3729	3902
48Mx	33314	37057
48Mz	17801	21484



<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 29

650	2967	3820
750	15071	16197
1950	6729	7768
53	6754 (7313)	10209
17Fx	6590 (10983)	13351

Anchor Group 30

802	2702	2963
445x	5677	6028
445z	2880	3245
261x	5340 (5554)	8037
261z	6430	7269
315x	3698	4322
315z	3548	3650
4240	297	320

Anchor Group 32 \*NOTE: All supports passed in Phase II Sample

77x	1048	1054
77z	1400	1530
83x	1089	1127
83z	1260	1571
98x	2366	2432
98y	2483	2591
101x	1097	1127
101y	1711	1957
11x	573	590
181x	1268	1517
181z	1178	1381
20x	733 (1198)	1495
20z	717	1013
261	1120	1500
290	320 (408)	557
34y	1990	2029
37z	358 (404)	583
40y	1255	1280
40z	352	432
44z	450	590
47z	685 (799)	1139
64	507 (601)	854

Continued

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 32 (Continued)

67x	282	392
67z	1076	1176
69x	465	502
207z	1049 (1262)	1735
223x	83 (97)	124
2015	495	539
73Fx	913	919
73Fz	1493	1558
73Mx	9263	9276
73My	794	1007
73Mz	5017	5030
105Fx	1063	1068
105Fz	1981 (2472)	2934
105Mx	2422	2479
105My	4256	4585
105Mz	1192 (1583)	2126

Anchor Group 33

555	5060	5696
570	4599	5298
300Fx	2177	3248
300Fy	3378	3419
300Fz	5412	7128
300Mx	34892	35511
300My	20251	25872

Anchor Group 34

1031	7818 (8212)	10090
950Fx	5547	8815
950Fz	5448 (6490)	8339
950Mx	33513	36525
950My	18548 (22546)	30638
950Mz	48141	61278

Anchor Group 35

106	4365	4871
1142	2120 (2724)	3277

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
Anchor Group <u>36</u>	*NOTE: All supports passed in Phase II Sample	
43x	2062	2494
43y	3557	3875
1061	7858	9247
1071	5929	6960
836	9584	12040
880	4929	6732
93	12335	13000
353	6716	7142
1350	8977	9321
1356	11604	12369
338	5168	6612
1338	5318	6162
1266	5063	5088
1233	1995	2691
244	4522	4576
1273x	5370	5567
1273z	5237	6276
1340x	449 (959)	1156
1340z	337 (663)	829
1219	12139	13879
1220	10564	12861
1225	10317	10732
1460	11241	12450
414x	7432	7618
414z	9876	9986
418	10040	10115
419	7157	7170
422	2426	2833
423	3439	3449
424	9563	11075
425	9280	9295
428	8477	8489
429x	2806	2828
429z	6164	7388
40Fx	2568	2943
40Fy	2383	2399
40Fz	4752	4831
40Mx	17427	18043
40My	20976	26379
40Mz	5158	7015
500My	1547 (2295)	2856
500Mx	2896 (3722)	4900

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
Anchor Group <u>37</u>		
1329	6577	6865
1252	12670	14517
1250	18647	19122
1314	11824	12541
1020	12646	12707
4140	9554	10587
2250	11701	13930
213	5851	7018
2102	7308	7564
6202	10532	10553
1220	14436	15183
1245	5611	5614
246x	3487	3602
246z	4878 (5847)	8241
1034x	7647	8850
1034z	9483	13434
1345x	9583	12162
1345y	6982	7146
1992	5139	7384
990	3678	5250
998	6635	7555
1850	4674	6091
1855	4537	5670
1215	11166	11885
1325	5745	6877
121x	8693	9249
121y	2647	2652
127	8100	8930
118Fx	4394	4874
118Fy	3366	3473
118Fz	4570	5139
118Mx	20934	21062
118My	32076	37627
118Mz	6109	6238
3520Fx	25299	29481
3520Fy	16677	17195
3520Fz	5562 (6439)	8763
3520Mx	37972	50622
3520My	23866 (30324)	41135
3520Mz	101633	115562



<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 38, 39, 40, & 41

5216y	39091 (40841)	50113
166	7583	10485
621y	9246	9546
621z	4663 (7759)	10089
623z	2211 (3013)	4118
138	30209	32373
142	19676 (20019)	25383
144y	16322	17162
500y	3079	3165
500z	1253 (1795)	2421
490z	590 (691)	986
186y	31178	31388
1902z	10988 (11465)	14462
405	15460	16777
750	13600 (17283)	23604
8108Fz	43652 (56787)	78591
8108Mx	363282	436626
8108My	123245 (143169)	204485
8108Mz	198335 (209558)	296673

Anchor Group 42

141y	845	846
196	2396	2423
22x	2966	3181
23	5665	6073
33x	2280	3114

Anchor Group 47

111	1191	1254
1328z	654	672
411	867	949
611	371 (484)	618
314Fy	678	688
314Mx	984	1063

Anchor Group 48

671	1797	1959
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<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 50

502	1341	1379
84My	12530	13184
631Fx	3945	4139
631Fz	6524	6788
631Mz	8400	9836
61	6503	6568

Anchor Group 52

1316x	379	381
314Fy	648	657
314Mx	948	1027
287Fx	1401	1421

Anchor Group 55

81y	207	243
11Sk	117	118
324x	54 (70)	96
330x	16 (19)	25
335y	63	65

Anchor Group 59

446	999	1110
63	463 (486)	584
6502	260	297
7500	897	1071

Anchor Group 61

416x	809	835
1405	2322	2360
1404	1586	1613
1403	499	508
1422	827	831
2591	1278	1350
229	1313 (2472)	3009
2250	1806 (2100)	2943
258	1212 (1493)	2000
368	456	489
1374	693	696
1376	448	461
80Fx	2518 (2762)	3747
80Fz	2284 (2308)	3088
80My	17896	18422
80Mz	24679	29500



<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group	<u>65</u>	
17	967	1129
65	2502	2587
141	2666	2847
1Fx	3223	3412
1Fy	2954	3207
1Fz	1437	1705
1My	9092	11014

Anchor Group	<u>66</u>	
66	3615	3772
14	4616	4890
17	1681	1937
1Fx	5337	6202
1Fy	4121	4377
1Fz	2590	3128
1Mx	34649	35177
1My	36802	39360

Anchor Group	<u>68</u>	
2201	7482 (7543)	11253
44	5552	5799
430	4292	5753
420	11533	11926
401	7662	9890

Anchor Group	<u>70</u>	
7	2053	2321
141	4140	4613
17	1642	2094
100Fx	1735	1924
100Fy	3504	3731
100Fz	1447	1536
100Mz	17576	18449

Anchor Group	<u>71</u>	
288	321	421
55	582	670
56z	1027	1161
56x	776	852
63x	876	1052
65	845	1083

Continued

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group	<u>71 (Continued)</u>	
678	328 (420)	576
23Fx	1563	2053
23Fz	1548	1991
23Mx	9835	10429
23My	2086 (2458)	3500
23Mz	11322 (12012)	17638
133Fy	3735	4550

Anchor Group	<u>73</u>	
231	840 (973)	1302

Anchor Group	<u>74</u>	
452	391 (479)	655

Anchor Group	<u>75</u>	
7	205	207
76	382	384

Anchor Group	<u>76</u>	
26y	487	489
25x	990	992
24y	439	513
24x	2138	2144
112	1059	1062
8z	393	490
6z	449	506
5z	595	619
4	803	805
3x	1397	1401
3z	441	447
223z	443	469

Anchor Group	<u>77</u>	
880	1862	1885
90	1775	1807
4200	530	632
800	607	608
83	848	901
990x	716	810
31Fx	1061	1072

Continued



<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 77 (Continued)

31Fz	1364	1383
31Mx	2239	2452
77Fx	831	883
77Fz	1351	4568
77Mz	2233	2600

Anchor Group 78

52z	563	670
523x	347	362
725x	8624	9094
725z	924	1036
54x	1058	1272
54z	852	954
55x	1125	1210
55z	1129	1262
56x	1017	1048
56z	996 (1136)	1624
58x	1014	1154
58z	1343 (2254)	2899
59x	1703	1735
690x	1627	1777
690y	1471	1681
71x	1384	1462
73x	1206	1234
73y	1344	1430
74x	951	965
74y	1486	1578
1060	7241	7855
1210	751	756
1211	2286	2355
1230Fx	565	623
1230Fz	529	541
1230Mx	478	494
1230My	2624	2631
1230Mz	2497	2918

Anchor Group 79

158	992	1323
165y	985 (1183)	1444
165x	413 (452)	656
1670	274	314
141	287	307
1560x	2914	4225
1560z	1996	2241
1280	206	233

Continued

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 79 (Continued)

1302x	915 (1027)	1468
1302z	831	946
168Fx	374	415
168Fy	836	850
168Fz	383	415
168Mx	135	190
168My	1348	1350
168Mz	1846	1954
170y	685	697
170z	276	344
172	304 (359)	506
178	490	509

Anchor Group 89

1611	7019	8600
1580Fy	7170	8237
1580Mx	27508	32898

Anchor Group 90

18	3869	3943
1Fx	5266	5740
1Fy	18090 (18409)	23385
1Fz	4883	5577
1Mx	31890	34222
1Mz	34617	40137
216Fx	7507	7541
216Fz	7610	8952
216Mx	46201	58252
166Fz	1333	1821

Anchor Group 92

1466Sk	1911 (2897)	3850
408	3770	3992
1429z	1686 (2432)	3273
4251z	3224	4651
4251x	4802 (5172)	7486
1429x	2099 (2102)	3115
444x	308	452
444z	723	1008

Anchor Group 94

11	32388	41632
1Fx	10375	13582





<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 95

1500	4042	4046
1501	1569 (3303)	4083
1502	5552	7375
1590	1793	1997
1202	919	1123
1203	779	1030
1504	4899 (9380)	11752
105Fx	20224 (26710)	32077
105Fy	19535	21666
105Mx	45444	56369
105Mz	125075	127156

Anchor Group 97

1Mz	19172 (25044)	32204
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Anchor Group 98

340	7769	8184
42y	11052	11088
53y	9673	10186
53x	9953	11021
1181y	17491	21318
112	22166	25897
87	10005	11296
296	13078 (13873)	16810
1580Fy	7170	8191
1580Mx	27508	33679
1580Mz	4392 (8903)	11952

Anchor Group 99

8x	265	287
8z	342	411
901x	421	453
901z	1319	1401
274y	548	584
274z	171	219
279y	459	487
279z	132	150
128x	261 (353)	482
32y	453	519
35	330	376
215	1025	1074

Continued

<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 99 (Continued)

217x	103	114
217z	3938	4652
43z	620	640
46y	518	526
46z	150	171
50	160	184
249	209 (211)	267
245x	157	162
245z	95	136
254x	88	109
254z	78	87
259x	76 (98)	135
259z	120	130
56z	197	241
225Fx	334	355
225Fz	4706	5305
225Mx	895	1118
225My	4931	5342
283Fx	253	357
283Fz	120	132
283Mx	234	328
283My	355	391
283Mz	783	815

Anchor Group 100, 101 & 102

287	143	175
290y	337	341
290z	136	200
297z	146 (187)	257
303x	286	353
303z	205 (268)	369
306x	280	304
306z	257	274
309x	263	264
309z	214	219
328x	332	458
328z	645 (764)	1083
336x	156 (207)	284
336z	461 (794)	1019
444x	179	244
444z	423	568
232x	370	408
232z	464	486
320Fx	696	708
320Fz	447	451
320Mx	2713	2758
320My	105 (147)	197
320Mz	4390	4493



Data Point No.	Phase I Faulted Load Combination	NRC Faulted Load Combination
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Anchor Group 103, 104, 105 & 106

14x	225	226
14z	306	331
16x	344	347
16z	295	323
17x	270	274
17z	312	353
375	961	1096
575	1968	2140
620y	2300 (4534)	5558
620z	1386	1652
125x	237	249
125z	295	334
127x	235	251
127z	248	274
128x	291	349
128z	208	285
137	427	458
117Fz	338	352
117Mx	1887 (1896)	2287
117Mz	479	516
265Fx	500	527
265Fy	945	1000
265Fz	311	337
265Mx	3237	3724
265My	2323	2427
265Mz	648	751

Anchor Group 107

18	9637	9742
150Fx	2885	3243
150Fy	1467 (1707)	2134
150Fz	1657	2105
150My	11379	13373

Anchor Group 108

451x	1130	1474
451y	1540	1591
250z	1146	1623
431y	1680	1703
4310x	891	1292

Data Point No.	Phase I Faulted Load Combination	NRC Faulted Load Combination
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\*NOTE: All supports passed in Phase II Sample

Anchor Group 109 & 110

74x	78 (114)	153
77x	152	154
80x	90 (105)	150
80y	143	147
83x	64 (167)	199
88x	50 (56)	81
88y	132 (142)	176
93x	36 (38)	56
98	69 (150)	181
104x	75 (76)	113
113z	20 (44)	54
153x	65 (95)	126
153z	70	84
400x	111	160
400z	172	183
1281	943	988
134x	211	272
136	450 (520)	691
97	131 (319)	384

Anchor Group 114

45Fx	8466	8549
45Fz	13991 (16288)	20098
45My	125351	128821

Anchor Group 115

189	6797 (9487)	12691
199	5968 (10125)	12815

Anchor Group 116

14	11214	12948
15	4696	5348
16	7885	9057

Anchor Group 121

68Fx	646 (777)	1097
68Fy	1046 (1097)	1472
68Fz	348 (403)	569
68Mx	434 (456)	658
68My	668 (704)	1006



<u>Data Point No.</u>	<u>Phase I Faulted Load Combination</u>	<u>NRC Faulted Load Combination</u>
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Anchor Group 124

802y	1707	2340
804	902 (1119)	1486
20	121	149

Anchor Group 154

1490	1007	1078
900	1192	1268
1905y	961 (962)	1337
1905z	1524	1613
36x	831 (1377)	1748
55x	305 (502)	651
65x	1272 (2268)	2840

Anchor Group 155

370y	1427	1436
370x	820	836
40z	422	465
62	1357	1378
1747	291 (367)	477
1088	279	294
85	426	431
999	84	108
114	487	510
5312z	483	492
5312y	196	197
5308z	196	223
1522z	251	307
5324	85	87
1182	1585	1708
50Fx	2504	2665
50Fy	981 (1030)	1259
50Fz	630	648
50My	3060	3570

#### Explanatory Notes:

- 1) All loads are given in absolute terms and do not indicate direction.
- 2) All loads are taken from Phase I data; Phase II anchor groups are identified but loads are not included.
- 3) Subscript "x", "y", or "z" indicate multiple support directions at a particular data point.
- 4) Subscript "F" indicates forces at an anchor.
- 5) Subscript "M" indicates moments at an anchor.
- 6) All loads are given in pounds (force) except for subscript "M" entries which are in foot-pounds.
- 7) When the faulted load combination is not the limiting design condition, the design load is shown in parentheses.



1. The first part of the document is a list of names and titles of the members of the committee. The names are listed in alphabetical order. The titles are listed in the order in which they appear in the document. The names and titles are as follows: