

Washington Public Power Supply System

Box 1223

Elma, Washington 98541-1223

(206)482-4428

Docket No. 50-508

June 27, 1984

G03-84-410

Director of Nuclear Reactor Regulation
ATTN: Mr. G. Knighton, Chief
Licensing Branch No. 3
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: NUCLEAR PROJECT 3
NRC STRUCTURAL DESIGN AUDIT

References: a) Letter, A. Vietti to G. W. Knighton, dated 9/6/83
b) Letter, G. W. Knighton to D. W. Mazur, dated
November 2, 1983
c) Letter #G03-84-213, G. C. Sorensen to G. W. Knighton,
dated April 6, 1984
d) Letter V. Nerses to G. W. Knighton, dated June 15, 1984

On September 26, 1983 members of the NRC Structural Engineering and Licensing Branches arrived at the offices of the WNP-3 Architect/Engineer, Ebasco Services Inc., in New York City. The purpose of this visit was to commence a week long audit as scheduled in reference a).

The Supply System hereby responds to those open items detailed in reference b) which transmitted to the Supply System the NRC Staff reviewers Audit Report documenting the results of the Audit exit meeting on September 30, 1983. Also included in this package is a response to NRC Question 220.22.

As you are aware, the Supply System has made arrangements to meet with the responsible NRC personnel in Bethesda and formally present these responses (ref. d).

This meeting is scheduled for July 10, 1984. The focus of our presentation will be on Audit Finding Number 1, though we will be prepared to discuss the full range of our responses to the NRC's Structural Design Audit of WNP-3.

13001
7/12/84

Mr. G. Knighton, Chief

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NRC STRUCTURAL DESIGN AUDIT

Should you require additional information or clarification, the Supply System point of contact for this matter is Mr. D. W. Coleman, Licensing Project Manager (206/482-4428 ext. 5436).

Sincerely,

D. W. Coleman for

G. C. Sorensen, Manager
Regulatory Programs

GCS/pm

cc: J. A. Adams - NESCO
V. Nerses - NRC
J. Porrovecchio - Ebas J (NYO)
N. S. Reynolds (Bishop, Liberman, Cook, Purcell & Reynolds)
D. Smithpeter - BPA
S. F. Swearngin - BPA
A. A. Tuzes - CE
WNP-3 Files (703)

Attachments: 1. SEB Audit Finding No. 1
2. SEB Audit Finding No. 5
3. SEB Audit Finding No. 8
4. SEB Audit Finding No. 11
5. SEB Audit Finding No. 12
6. SEB Audit Finding No. 14
7. SEB Audit Finding No. 15
8. SEB Audit Finding No. 17
9. SEB Audit Finding No. 18
10. SEB Audit Finding No. 19
11. SEB Audit Finding No. 20
12. SEB Audit Finding No. 21
13. SEB Audit Finding No. 22
14. SEB Audit Finding No. 23
15. SEB Audit Finding No. 24
16. SEB Audit Finding No. 25
17. NRC Question No. 220.22

WNP-3 LICENSING DOCUMENTS

TRACKING SYSTEM

LEGEND

SCN - FSAR CHANGE NOTICE

STS - STATUS

BO - SUPPLY SYSTEM RESPONSE DEFERRED

PC - PARTIAL COMPLETION OF RESPONSE

C - SUPPLY SYSTEM CONSIDERS RESPONSE TO BE COMPLETE

* - COMMITMENT MADE IN THE SUPPLY SYSTEM RESPONSE IS BEING TRACKED

ITFM ID - SUPPLY SYSTEM INTERNAL TRACKING NUMBER

NOTE: The attached status list reflects only those NRC questions where the Supply System has provided some type of response (see Legend above). Questions are not listed if a response has not yet been provided.

WPP-3 LICENSING DOCUMENTS TRACKING SYSTEM HISTORY
 RESPONSES TO NRC QUESTIONS
 AS OF 27 JUN 1984

QUESTION NUMBER	SCN #	FSAR SECTION	AMEND #	NRC LTR DATE	RESPONSE DATE	STS	ITEM ID
004 001	N/A	03 11	NA	19820820	19830117	80	83-573
004 001	N/A	03 11	NA	19820820	19830203	C	83-569
004 002	N/A	N/A	NA	19820820	19821022	80	82-301
004 003	N/A	03 02	NA	19820820	19821022	80	82-323
004 003	N/A	03 02 00	NA	19820820	19840406	C	84-099
004 004	N/A	03 01	NA	19820820	19821022	C	82-302
004 004	N/A	03 08	NA	19820820	19821022	C	82-303
004 005	N/A	09 05 01	NA	19820820	19821022	PC	82-324
004 005	N/A	09 05A	NA	19820820	19830616	PC	83-575
004 005	N/A	09 05 00	NA	19820820	19840406	C*	84-008
004 005	N/A	03 08	NA	19820820	19821022	80	82-325
004 006	0334A	03 08 04 01	05	19820820	19830117	C*	83-097
004 007	N/A	N/A	NA	19820820	19821022	C	82-304
004 008	N/A	N/A	NA	19820820	19821022	80	82-305
004 009	N/A	N/A	NA	19820820	19821022	80	82-306
004 010	N/A	06 02	NA	19820820	19821022	80	82-326
004 010	0232	06 02	02	19820820	19821130	PC*	82-232
004 010	N/A	06 01	NA	19820820	19840117	80	84-240
004 011	N/A	03 09	NA	19820820	19821022	80	82-327
004 011	N/A	03 09	NA	19820820	19830117	PC	83-574
004 011	N/A	03 10 00	NA	19820820	19840406	C	84-009
004 011	N/A	03 09	NA	19820820	19840406	C	84-241
004 012	N/A	14 02 12 06	NA	19820820	19821022	C	82-307
004 013	N/A	14	NA	19820820	19821022	C	82-308
001 014	0212	113 03-5	02	19820820	19821022	C*	82-212
100 001	N/A	01 08 03	NA	19820820	19821022	PC	82-249
100 002	N/A	NSSS	NA	19820820	19821022	80	82-250
100 003	N/A	NSSS	NA	19820820	19830117	C*	83-416
100 004	N/A	N/A	NA	19820820	19821022	C	82-252
210 001	N/A	03 08 02 04	NA	19820820	19821022	C	82-253
210 002	0224	03 09 01 02	02	19820820	19821022	C	82-254
210 003	0600	03 09 03B	01	19820820	19821022	C	82-224
210 004	N/A	03 09 03 04	NA	19820820	19821022	PC	82-189
210 004	N/A	03 09 03 04	05	19820820	19840117	PC	83-400
210 005	0170	03 09 06	02	19820820	19821022	80	82-297
210 006	0191	05 02 01 01	02	19820820	19830117	C	82-256
210 007	N/A	05 04 01 01 02	NA	19820820	19821022	C	82-170
210 015	N/A	N/A	NA	19820820	19821022	C	82-191
210 025	N/A	N/A	NA	19820625	19821022	C	82-258
210 035	N/A	N/A	NA	19820625	19820730	C	82-328
210 045	N/A	N/A	NA	19820625	19820730	PC*	82-329
210 055	N/A	N/A	NA	19820625	19820730	C*	82-330
210 065	N/A	N/A	NA	19820625	19820730	C	82-331
210 075	N/A	N/A	NA	19820625	19820730	C	82-332
210 075	N/A	N/A	NA	19820625	19820730	C*	82-333
210 085	N/A	N/A	NA	19820625	19820730	C	82-334
210 095	N/A	N/A	NA	19820625	19820730	PC	82-335

MRP-3 LICENSING DOCUMENTS TRACKING SYSTEM HISTORY
 RESPONSES TO NRC QUESTIONS
 AS OF 27 JUN 1984

QUESTION NUMBER	SCN #	FSAR SECTION	APPEND #	NRC LTR DATE	RESPONSE DATE	STS	ITEM ID
210 005	N/A	N/A	NA	19820625	19821111	C	82-336
210 005	N/A	N/A	NA	19820625	19820730	C	82-337
210 100	N/A	N/A	NA	19820625	19820730	C	82-338
210 115	N/A	N/A	NA	19820625	19820730	C*	82-339
210 125	N/A	N/A	NA	19820625	19820730	C	82-340
210 135	N/A	N/A	NA	19820625	19820730	PC	82-341
210 135	N/A	N/A	NA	19820625	19820730	C	82-342
210 145	N/A	N/A	NA	19820625	19830615	C	83-380
210 145	N/A	N/A	NA	19830615	19830615	C	83-381
210 165	N/A	N/A	NA	19830615	19830615	PC	83-382
210 165	N/A	N/A	NA	19830615	19830615	C	83-383
210 175	N/A	N/A	NA	19830615	19830615	C	83-384
210 185	N/A	N/A	NA	19830615	19830615	C	83-385
210 195	N/A	N/A	NA	19830615	19830615	C	83-386
210 205	N/A	N/A	NA	19830615	19830615	C	83-387
220 001	0223	03 04 02	02	19820820	19821022	C	82-223
220 002	0194	03 07 01 01	02	19820820	19821022	C	82-184
220 003	N/A	03 07 02 05	NA	19820820	19821022	C	82-259
220 004	0214	03 07 04	02	19820820	19821022	C	82-216
220 004	0216	07 06	02	19820820	19821022	C	82-216A
220 005	0201	03 08 02 05	01	19820820	19821022	C	82-201
220 006	N/A	03 08 03	NA	19820820	19821022	C	82-260
220 007	0193	03 08 04 01 03	02	19820820	19821022	C	82-183
220 008	N/A	03 08 04 01 02	NA	19820820	19821022	BO	82-261
220 008	N/A	03 08 04 01 02	NA	19820820	19821022	C	83-099
220 009	0225	03 08 05 01	02	19820820	19821022	C	82-225
220 010	N/A	03 03 02	NA	19830503	19830902	C	83-417
220 011	N/A	03 04	NA	19830503	19830902	C	83-419
220 012	N/A	03 05 03	NA	19830503	19830902	C	83-422
220 013	N/A	03 07 01	NA	19830503	19840406	C	84-010
220 013	N/A	02 07	NA	19830503	19840406	C	84-153
220 014	N/A	03 07	NA	19830503	19830908	C	83-423
220 014	N/A	03 08	NA	19830503	19830908	C	83-424
220 015	N/A	03 07 02	NA	19830503	19840406	C	84-011
220 015	N/A	03 07 01	NA	19830503	19840406	C	84-012
220 016	N/A	03 07 02 05	NA	19830503	19830902	C	83-425
220 017	N/A	03 07 02 03	NA	19830503	19840117	C	84-156
220 018	N/A	07 06	NA	19830503	19830902	PC	83-428
220 019	N/A	03 07 02 01	NA	19830503	19830902	C	83-429
220 020	N/A	03 07 03 02	04	19830503	19830902	C	83-358
220 021	0560	03 07	NA	19830503	19840406	BO	84-161
220 022	N/A	01 08 01	06	19830503	19840627	C	84-254
220 022	0660	01 08 03 13 7 21	06	19830503	19840627	C	84-255
220 023	N/A	03 07	NA	19830503	19830902	C	83-430
220 024	0555	03 07 03 15	04	19830503	19830902	C	83-352
220 025	N/A	05 08 02	NA	19830503	19840117	C*	83-431
220 026	N/A	03 08	NA	19830503	19840117	C	83-432

WNP-3 LICENSING DOCUMENTS TRACKING SYSTEM HISTORY
 RESPONSES TO NRC QUESTIONS
 AS OF 27 JUN 1984

QUESTION NUMBER	SCN #	FSAR SECTION	AMEND. #	NRC LTR DATE	RESPONSE DATE	STS	ITEM ID
220 027	N/A	03 08 02	NA	19830503	19830902	C	83-434
220 028	N/A	03 08 02	NA	19830503	19830902	C	83-435
220 029	N/A	03 08 03	NA	19830503	19830902	C	83-436
220 030	N/A	03 08 03	NA	19830503	19840117	C	84-163
220 031	N/A	03 08 03	NA	19830503	19830902	C	83-437
220 032	N/A	03 08 04	NA	19830503	19830902	C	83-440
220 033	N/A	03 08 04	NA	19830503	19830715	C	83-441
220 034	N/A	03 08 04	NA	19830503	19830902	C	83-442
220 035	N/A	03 08 04	NA	19830503	19830902	C	83-443
220 036	N/A	03 08 04	NA	19830503	19830902	C	83-444
220 037	0619	09 01 02 02	05	19830503	19840117	C	84-141
220 038	0619	03 09 01	05	19830503	19840117	C	84-142
220 039	N/A	03 08 04	NA	19830503	19830902	C	83-446
240 001	N/A	02 04 11 01	NA	19830708	19840307	C	84-015
240 002	0605	02 04 01	05	19830708	19840307	C	84-016
240 003	N/A	02 04 01	NA	19830708	19840427	C	84-017
240 004	N/A	02 04 02	NA	19830708	19840406	C	84-019
240 005	N/A	02 04 02	NA	19830708	19840406	C	84-021
240 006	N/A	02 04 12	05	19830708	19840406	C	84-022
240 007	0629	02 04 13	05	19830708	19840307	C	84-036
240 008	0657	02 04 13	05	19830708	19840406	C	84-037
240 009	0650	02 04 13	05	19830708	19840406	C	84-026
240 010	N/A	02 04 A0	NA	19830708	19840406	C	84-027
240 011	N/A	03 04 01	NA	19830708	19840406	C	84-028
240 012	N/A	03 04 01	NA	19830708	19840307	C	84-038
240 013	N/A	03 04 01	NA	19830708	19840307	C	84-130
240 014	0613	03 04 01	05	19830708	19840307	C	84-131
240 014	0613	02 04 01	05	19830708	19840307	C	84-131
241 001	0196	02 05 04	01	19820820	19821022	C	82-196A
241 001	0196	02 05 05	01	19820820	19821022	C	82-196B
241 002	N/A	02 05 04 05 04	NA	19820820	19821022	C	82-264
241 003	N/A	02 05 04 10	NA	19820820	19821022	C	82-265
241 004	N/A	02 05 04 10	NA	19820820	19821022	C	82-266
241 005	0197	02 05 05 01	01	19820820	19821022	C	82-197
241 006	N/A	02 05 05 01	NA	19820820	19821022	PC	82-267
241 006	0356	02 05 05 01	03	19820820	19830203	C	83-122
241 007	0172	03 07 01 03	02	19820820	19821022	C	82-172
241 008	0173	03 07A 02	02	19820820	19821022	C	82-173
241 009	N/A	03 07A 03	NA	19820820	19821022	C	83-456
241 010	N/A	03 08 04 04	NA	19820820	19821022	C	82-268
241 011	N/A	02 03 04 13	NA	19820820	19821022	C*	82-269
241 012	0439	02 05 04	04	19830412	19830715	C	83-225
241 013	0451	02 05 04	04	19830412	19830715	C	83-238
241 014	0440	02 05 04	04	19830412	19830715	C	83-226
241 015	N/A	02 05 04	NA	19830412	19830715	C	83-457
241 016	N/A	02 05 04	NA	19830412	19830715	C	83-458
241 017	N/A	02 05 04	NA	19830412	19830715	C	83-459

WRP-3 LICENSING DOCUMENTS TRACKING SYSTEM HISTORY
 RESPONSES TO NRC QUESTIONS
 AS OF 27 JUN 1984

QUESTION NUMBER	SCN #	FSAR SECTION	AMEND. #	NRC LTR DATE	RESPONSE DATE	STS	ITEM ID
241 018	N/A	02 05 04	NA	19830412	19830902	C	83-460
241 019	0480	02 05 04	04	19830412	19830902	C	83-268
241 020	N/A	02 05 04	NA	19830412	19840117	C	83-461
241 021	N/A	02 05 04	NA	19830412	19830902	C	83-463
241 022	N/A	02 05 04	NA	19830412	19830902	C	83-464
241 023	N/A	02 05 04	NA	19830412	19831103	C	83-465
241 024	N/A	02 05 04	NA	19830412	19830902	C	83-466
241 025	0493	02 05 04	04	19830412	19830902	C	83-286
250 061	N/A	03 05 01 03	NA	19830820	19821022	C	82-270
250 003	0228	03 04 02 02	02	19830820	19821022	C	82-228
260 000	N/A	03 02 00	NA	19830820	19840406	C	84-102
260 001	N/A	03 02 02	NA	19831017	19840406	C	84-103
270 001	N/A	03 14 01	NA	19820820	19821022	BO	82-310
270 001	0353	03 11 01	03	19820820	19830117	PC	83-119
270 001	0411	03 11 00	04	19820820	19830420	PC	83-192
270 002	N/A	03 11 00	04	19820820	19840406	BO	84-039
270 002	0200	03 11 01	03	19820820	19821022	PC	82-200
270 002	0376	03 11 01	03	19820820	19830203	C	83-147
271 001	N/A	03 10	NA	19820820	19821022	PC	82-271
271 001	0410	03 10-1	04	19820820	19830420	PC	83-191
271 001	0610	03 02 00	05	19820820	19840117	PC	83-411
271 001	N/A	03 02 00	NA	19820820	19840406	BO	84-128
280 001	0193	09 05 01 01 06	02	19820820	19821022	C	82-193
280 002	0186	09 05 01 03	02	19820820	19821022	C	82-146
280 003	0187	09 05 01 03	02	19820820	19821022	C	82-137
280 004	0192	09 05 01 03	02	19820820	19821022	PC	82-152
280 004	N/A	09 05 01	NA	19820820	19830816	PC	83-467
280 004	0409	09 05 01	05	19820820	19840406	PC*	84-033
280 005	N/A	09 05 01 05	NA	19820820	19821022	C*	82-272
281 001	N/A	06 01 01 02	NA	19820820	19821022	BO	82-311
281 001	N/A	06 01 01 02	NA	19820820	19830117	BO	83-570
281 001	N/A	06 01 01 02	NA	19820820	19830420	PC	83-468
281 001	0629	06 05 02	05	19820820	19840307	C	84-034
281 002	N/A	09 03 02	NA	19820820	19821022	C	82-274
281 003	0214	10 04 06	02	19820820	19821022	C	82-214
281 004	N/A	10 04 08 01	NA	19820820	19821022	BO	82-312
281 004	N/A	10 04 08 01	NA	19820820	19830203	BO	83-469
281 005	0476	06 01 02	04	19830412	19830715	C	83-263
281 006	0474	09 01 03	05	19830412	19840117	C*	83-285
281 007	0513	09 03 05	04	19830412	19840117	C*	83-415
281 008	0441	01 07	04	19830412	19830902	PC	83-304
281 009	0442	01 09	04	19830412	19830715	C	83-227
281 009	0442	09 03 02	04	19830412	19830715	C	83-228
281 010	0457	09 03 02	04	19830412	19830715	C	83-229
281 011	N/A	09 02	NA	19830412	19830715	C	83-244
281 012	0458	09 03 04	04	19830412	19830715	C	83-472
							83-245

NRP-3 LICENSING DOCUMENTS TRACKING SYSTEM HISTORY RESPONSES TO NRC QUESTIONS AS OF 27 JUN 1984

QUESTION NUMBER	SCN #	FEAR SECTION	AMEND. #	NRC LTR DATE	RESPONSE DATE	STB	ITEM ID
281 013	0530	09 03 04	NA	19830412	19830902	C	83-473
281 014	N/A	05 04 21	NA	19830412	19830902	PC	83-474
281 015	N/A	10 04 06	NA	19830412	19830715	C	83-475
281 016	0596	09 01 02	06	19830412	19830902	C	83-476
281 017	0597	09 01 02	06	19830412	1983 7902	C	83-477
311 001	N/A	RE 02 01 01 02	NA	19820820	19821022	C	82-275
311 002	N/A	13 03	NA	19820820	19821022	C	82-276
311 003	N/A	03 05 01 06	NA	19820820	19821022	BO	82-313
311 003	N/A	03 05 01 06	NA	19820820	19830117	BO	82-277
311 003	0611	02 02 02 06	03	19820820	19840117	C	83-412
311 003	0611	03 05 01 06	05	19820820	19840117	C	83-413
321 001	N/A	06 05 01	NA	19830412	19830902	C	83-479
321 002	0492	10 04 02	04	19830412	19830902	C	83-282
321 002	0492	11 03	04	19830412	19830902	C	83-283
321 003	0488	11 01	04	19830412	19831103	PC	83-276
321 003	0488	11 03	04	19830412	19831103	PC	83-277
321 003	0488	09 04 03	05	19830412	19840406	C	84-089
321 004	N/A	11 03	NA	19830412	19830908	C	83-480
321 005	0443	11 05	04	19830412	19830715	C	83-230
321 006	0514	11 05	04	19830412	19830908	C	83-306
410 001	N/A	03 04 01 02	NA	19820820	19821022	C	82-278
410 002	N/A	03 05 01 01	NA	19820820	19821022	BO	82-314
410 002	N/A	03 05 01 01	NA	19820820	19830203	C	83-481
410 003	N/A	03 05 01 01	NA	19820820	19821022	BO	82-315
410 003	N/A	03 05 01 01	NA	19820820	19830203	PC	83-482
410 004	N/A	03 05 01 02	NA	19820820	19821022	BO	82-316
410 004	N/A	03 05 01 02	NA	19820820	19830203	PC	83-576
410 005	0175	03 05 01 04	01	19820820	19821022	C	82-193
410 006	N/A	03 05 01 04	NA	19820820	19821022	C	82-279
410 007	N/A	03 05 02	NA	19820820	19821022	BO	82-318
410 007	0230	03 05 02	02	19820820	19830117	C	82-230
410 008	0219	09 02 05	01	19820820	19821022	C	82-219
410 008	0394	09 02 05	03	19820820	19830324	C	83-170
410 009	N/A	09 02 06	NA	19820820	19821022	C	82-280
410 010	0218	09 02 08	01	19820820	19821022	C	82-218
410 011	0204	09 04	02	19820820	19821022	C	82-204
410 012	N/A	09 04 07	NA	19820820	19821022	BO	82-281
410 012	0375	09 04 07	03	19820820	19830203	C	83-146
410 013	N/A	10 04 07	NA	19820820	19821022	C	82-282
410 014	N/A	10 04 09 03	NA	19820820	19821022	BO	82-283
410 015	N/A	03 04 01	NA	19830412	19830715	C	83-483
410 016	N/A	03 05 01	NA	19830412	19830902	PC	83-484
410 017	N/A	03 05 01	NA	19830412	19830902	C	83-485
410 018	N/A	03 05 01 01	NA	19830412	19830902	C	83-486
410 019	N/A	03 05 01 02	NA	19830412	19830902	C	83-487
410 020	N/A	09 05 01	NA	19830412	19840307	C	84-035
410 021	0632	03 05 01	05	19830412	19840406	PC	84-104

WNP-3 LICENSING DOCUMENTS TRACKING SYSTEM HISTORY RESPONSES TO NRC QUESTIONS AS OF 27 JUN 1984

QUESTION NUMBER	SCN #	FSAR SECTION	AMEND. #	NRC LTR DATE	RESPONSE DATE	SIS	ITEM ID
410 022	N/A	03 05 01	NA	19830412	19840406	C	84-041
410 023	N/A	03 05 01 04	NA	19830412	19830715	C	83-488
410 024	N/A	03 05 01	NA	19830412	19830902	C	83-489
410 025	N/A	03 06 01	NA	19830412	19830902	C	83-490
410 026	0653	02 06 00	05	19830412	19840406	PC	84-042
410 027	0444	03 05 01	04	19830412	19830715	C	83-231
410 028	0460	03 06 01	04	19830412	19830715	C	83-246
410 029	0521	05 02 05	04	19830412	19830902	C	83-313
410 030	N/A	09 01 01	NA	19830412	19830902	C	83-491
410 031	N/A	09 01 02	NA	19830412	19831103	C	83-492
410 032	N/A	09 01 02	NA	19830412	19830902	C	83-493
410 033	0462	09 01 03	04	19830412	19830715	C	83-249
410 035	0478	07 02 05	04	19830412	19830902	C	83-265
410 036	0461	09 03 01	04	19830412	19830902	C	83-247
410 037	N/A	09 03 03	NA	19830412	19830715	C	83-494
410 038	N/A	09 04	NA	19830412	19830902	C	83-495
410 039	N/A	09 04 00	NA	19830412	19840307	C	84-043
410 040	0618	01 08 01	05	19830412	19840117	C	84-137
410 040	0618	01 08 03(9.4.1)	05	19830412	19840117	C	84-138
410 040	0618	02 02 03	05	19830412	19840117	C	84-139
410 041	N/A	09 04 01	NA	19830412	19840117	C	84-140
410 042	N/A	09 04 01	NA	19830412	19830715	C	83-496
410 043	N/A	09 04 01	NA	19830412	19840307	C	84-044
410 044	N/A	09 04 02	NA	19830412	19830715	C*	83-497
410 045	N/A	09 04 03	NA	19830412	19830715	C	83-498
410 046	N/A	09 04	NA	19830412	19830902	C	83-499
410 047	0540	10 03	04	19830412	19830715	C	83-500
410 048	N/A	10 04 07	NA	19830412	19830902	C	83-336
410 049	0463	10 04 07	04	19830412	19830715	C	83-501
410 050	0493	10 04 07	04	19830412	19830902	C	83-250
410 051	0445	10 04 07	04	19830412	19830715	C	83-284
410 052	N/A	10 04 07	NA	19830412	19830715	C	83-232
410 053	0574	10 04 09	05	19830412	19830902	C	83-502
421 001	0188	07 03	02	19820820	19840406	C*	84-045
421 001	0378	07 03	03	19820820	19821022	PC	82-188
421 002	N/A	07 06 02	03	19820820	19830203	C	83-148
430 001	N/A	RE 08 00	NA	19820820	19821022	C	82-284
430 002	0231	10 04 01	02	19820820	19821022	C	82-285
430 003	N/A	09 05 03	NA	19830503	19821022	C	82-231
430 004	N/A	09 05 03	NA	19830503	19830902	C	83-503
430 005	N/A	09 05 03	NA	19830503	19830902	C	83-504
430 006	0599	09 05 03	04	19830503	19830902	C	83-505
430 007	N/A	09 05 03	04	19830503	19830902	C	83-357
430 008	N/A	09 05 04	NA	19830503	19830902	C	83-506
430 009	0502	09 05 04	04	19830503	19830902	C	83-507
430 010	N/A	09 05 04	NA	19830503	19830902	C	83-293
							83-508

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QUESTION NUMBER	SCN #	FSAR SECTION	AMEND. #	NRC LTR DATE	RESPONSE DATE	STS	ITEM ID
430 011	0646	09 05 04	03	19830503	19840427	C	P1-109
430 012	0503	09 05 04	04	19830503	19830902	C	63-294
430 013	0501	09 05 04-1	04	19830503	19830902	C	83-292
430 014	0609	09 05 04	NA	19830503	19840307	C*	84-046
430 015	0536	09 05 04	04	19830503	19830902	C	83-331
430 016	0556	09 05 04	04	19830503	19830902	C	83-354
430 017	N/A	09 05 04	NA	19830503	19830715	C*	83-509
430 018	0505	09 05 04	04	19830503	19830902	C	83-296
430 019	N/A	09 05 04	NA	19830503	19830902	C	83-510
430 020	0504	09 05 04	04	19830503	19830902	C	83-295
430 021	N/A	09 05 04	NA	19830503	19831122	C	83-511
430 022	0549	09 05 04	04	19830503	19830902	C	83-345
430 023	N/A	09 05 04	NA	19830503	19840117	C*	84-183
430 024	0511	09 05 04	04	19830503	19830902	C	83-302
430 025	0534	09 05 05	04	19830503	19830902	C	83-329
430 026	N/A	09 05 05	NA	19830503	19840427	C*	84-110
430 027	0643	09 05 05	03	19830503	19840427	C	84-111
430 028	0642	09 05 05	03	19830503	19840427	C	84-112
430 029	0645	08 03 01	03	19830503	19840427	C*	84-113
430 030	0617	09 05 05	03	19830503	19840427	C	84-114
430 031	N/A	09 05 05	NA	19830503	19840427	C	84-115
430 032	0557	09 05 05	04	19830503	19830902	C	83-335
430 033	N/A	09 05 06	NA	19830503	19840427	C	84-116
430 034	0544	09 05 06	04	19830503	19830902	C	83-340
430 035	N/A	09 05 06	NA	19830503	19830902	C	83-512
430 036	0570	09 05 06	04	19830503	19831122	C	83-369
430 037	0571	09 05 06	04	19830503	19831122	C	83-370
430 038	N/A	09 05 06	NA	19830503	19830902	PC	83-513
430 039	N/A	09 05 06	NA	19830503	19840427	C	84-117
430 040	N/A	09 05 06	NA	19830503	19840427	C	84-118
430 041	0533	09 05 07	04	19830503	19830902	C	83-514
430 042	0638	09 05 07	03	19830503	19840427	C	83-328
430 043	0636	09 05 07	03	19830503	19840427	C	84-119
430 044	0637	09 05 07	03	19830503	19840427	C	84-120
430 045	N/A	09 05 07	NA	19830503	19840427	C*	84-121
430 046	N/A	09 05 07	NA	19830503	19840427	C	84-122
430 047	0648	09 05 07	03	19830503	19840427	C	84-129
430 048	0656	09 05 07	03	19830503	19840427	C	84-123
430 049	N/A	09 05 07	NA	19830503	19840427	C	84-124
430 050	0644	09 05 07	03	19830503	19840427	C	83-571
430 051	0561	09 05 08	04	19830503	19830902	C	83-359
430 054	0552	09 05 08	04	19830503	19830902	C	83-346
430 055	N/A	09 05 08	NA	19830503	19830902	C	83-516
430 056	0595	09 05 08	04	19830503	19830902	C	83-395
430 057	N/A	09 05 08	NA	19830503	19830902	C	83-517
430 059	N/A	08 03 01	NA	19830503	19840427	C	84-126

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QUESTION NUMBER	SCN #	FSAR SECTION	AMEND. #	NRC LTR DATE	RESPONSE DATE	SIS	ITEM ID
430 060	0539	10 02	04	19830503	19830902	C	83-335
430 061	N/A	10 02	NA	19830503	19831122	C	83-518
430 062	N/A	10 03	NA	19830503	19830902	C	83-519
430 063	N/A	10 04 01	NA	19830503	19830902	C	83-520
430 064	N/A	10 04 01 04	NA	19830503	19831122	C	83-521
430 065	N/A	10 04 01	NA	19830503	19830902	C	83-522
430 066	N/A	10 04 01	NA	19830503	19830902	C	83-523
430 067	N/A	10 04 01	NA	19830503	19830902	C	83-524
430 068	N/A	10 04 01	NA	19830503	19830908	C	83-525
430 069	0633	08 01	05	19830511	19840406	C	84-157
430 069	0633	03 01	05	19830511	19840406	C	84-158
430 070	N/A	08 02 01	NA	19830511	19840406	C	84-048
430 073	0614	08 02 01	05	19830511	19840406	C	84-049
430 076	N/A	08 02 01	NA	19830511	19840307	C	84-050
430 081	N/A	08 03 01	NA	19830511	19840406	BO	84-051
430 082	N/A	08 03 01	NA	19830511	19840406	PC	84-052
430 084	N/A	08 03 01	NA	19830511	19840427	C	84-127
430 086	N/A	08 03 01	NA	19830511	19840406	C	84-053
430 087	N/A	08 03 01	NA	19830511	19840406	C	84-054
430 088	0617	08 03 01	05	19830511	19840406	C	84-055
430 094	N/A	08 03 02	NA	19830511	19840406	C	84-056
430 095	N/A	08 03 02	NA	19830511	19840406	C	84-057
430 097	N/A	08 03 02	NA	19830511	19840406	C*	84-059
440 001	N/A	05 04 07 01 03	NA	19820820	19821022	BO	82-319
440 001	0190	05 04 07 01 03	02	19820820	19830117	C	82-190
440 005	N/A	05 04 07	NA	19830511	19840307	C	84-020
450 001	N/A	06 05 02	NA	19830412	19840117	BO	84-242
450 001	N/A	06 05 02	NA	19830412	19840307	C	84-059
450 002	0464	06 05 02	04	19830412	19830715	C	83-251
450 003	0465	06 05 03	04	19830412	19830715	C	83-252
450 004	N/A	06 05 03	04	19830412	19830902	C	83-526
450 005	0533	09 04 02	04	19830412	19831103	C	83-347
450 005	0553	09 04 03	04	19830412	19831103	C	83-350
450 006	N/A	15 06 03	NA	19830412	19831122	C	83-527
450 007	0531	06 05 03	04	19830412	19830902	C	83-326
450 008	N/A	15 06 05	04	19830412	19840406	C	84-107
450 009	0332	15 06 05	04	19830412	19830902	C	83-327
450 010	N/A	15 07 04	NA	19830412	19831103	C	83-528
450 011	N/A	15 07 04	NA	19830412	19830902	C	83-529
450 012	N/A	15	NA	19830412	19831122	C	83-530
451 001	N/A	02 03 01 02	NA	19820820	19821022	C	82-296
451 002	0217	15 06 02 05	02	19820820	19821022	C	82-217A
451 002	0217	15 06 03 02 05	02	19820820	19821022	C	82-217B
451 003	0474	02 03 03	04	19830412	19830715	C*	83-261
451 004	0475	02 03 03	04	19830412	19830902	C	83-262
451 005	N/A	02 03 03	NA	19830412	19830715	C	83-532
451 006	0622	06 02 06	05	19830412	19840406	C*	84-062

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 RESPONSES TO NRC QUESTIONS
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QUESTION NUMBER	SCN #	FSAR SECTION	AMEND. #	NRC LTR DATE	RESPONSE DATE	BTS	ITEM ID
451 007	N/A	02 03 01	NA	19830412	19830715	C	83-533
460 001	0073	11 05	02	19820820	19821022	PC	82-073
460 001	0388	11 05 02 02 02	04	19820820	19831122	C	83-162
471 001	N/A	12 03 04	NA	19820820	19821022	PC	82-287
471 001	N/A	12 03 04	NA	19820820	19830324	PC	83-534
471 001	N/A	12 03 04	NA	19820820	19840117	C	84-235
471 002	0207	12 03 04	02	19820820	19821022	C	82-207
471 003	0175	12 03 04	02	19820820	19821022	C	82-175
471 004	0220	12 04 03	02	19820820	19821022	C	82-220
471 005	N/A	12 05 01	NA	19820820	19821022	C	82-286
471 006	N/A	12 05 02	NA	19820820	19821022	PC	82-289
471 006	0918	12 05	04	19820820	19831122	C	83-310
471 007	0208	12 05 02	02	19820820	19821022	C	82-208
471 008	0209	12 05 03	02	19820820	19821022	C	82-209
471 010	N/A	12 01 02	NA	19820412	19830715	C	83-535
471 011	0432	12 01	04	19820412	19830908	C	83-215
471 011	0432	12 02	04	19820412	19830908	C	83-216
471 011	0432	12 03	04	19820412	19830908	C	83-217
471 011	0432	12 04	04	19820412	19830908	C	83-218
471 012	N/A	12 02 02	NA	19820412	19840117	C*	83-536
471 013	N/A	12 01	NA	19820412	19830902	C	83-537
471 013	N/A	12 01	NA	19820412	19830902	C	83-236
471 013	0449	12 05	04	19820412	19830902	C	83-538
471 016	N/A	12 03	NA	19820412	19830902	C	83-539
471 016	N/A	12 04	NA	19820412	19830902	C	83-540
471 017	N/A	12 05	NA	19820412	19830715	C	83-541
471 018	N/A	12 05	NA	19820412	19830715	C*	83-541
471 019	0450	13 01	04	19820412	19830902	C	83-237
471 020	N/A	12 05	NA	19820412	19831103	C	83-542
471 021	N/A	12 03 00	NA	19820412	19840307	C	84-064
471 022	N/A	01 08	NA	19820412	19830902	C	83-543
471 022	N/A	12 03	NA	19820412	19830902	C	83-544
471 023	0421	01 08 03(12 3)	05	19820412	19840117	C	83-204
471 024	N/A	12A	NA	19820412	19830715	C	83-545
471 025	0573	12 03	05	19820412	19840117	C	83-372
480 001	N/A	06 02 01 01 02	NA	19820820	19821022	C	82-290
480 002	N/A	06 02 01 01	NA	19820820	19821022	BD	82-320
480 002	N/A	06 02 01 01	NA	19820820	19830117	C	82-291
480 003	N/A	06 02 01 05	NA	19820820	19821022	PC	82-292
480 004	N/A	06 02 02 03	NA	19820820	19821022	C	82-293
480 005	0227	06 02 04	02	19820820	19821130	BD	82-321
480 006	0194	06 02 04	02	19820820	19821022	PC	82-227
480 007	N/A	06 02 01	NA	19830503	19821022	PC	82-174
480 008	N/A	06 02 01	NA	19830503	19830902	C	83-546
480 009	N/A	06 02 01	NA	19830503	19840406	C	84-108
480 010	N/A	06 02 02	NA	19830503	19830902	C	83-548
480 011	N/A	06 02 02	NA	19830503	19830902	C	83-549

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QUESTION NUMBER	SCN #	FSAR SECTION	AMEND. #	NRC LTR DATE	RESPONSE DATE	STS	ITEM ID
480 012	N/A	06 02 02	NA	19830503	19840117	C	83-550
480 012	N/A	06 02	NA	19830503	19840117	C	83-551
480 013	N/A	06 02 03	NA	19830503	19831122	C	83-552
480 014	0490	06 02 03	04	19830503	19830902	C	83-280
480 015	0489	06 02 03	04	19830503	19830902	C	83-279
480 016	N/A	06 02 04	NA	19830503	19830902	80	83-553
480 017	0506	06 02 04	04	19830503	19831122	C	83-297
480 018	0577	06 02 04	04	19830503	19831122	C	83-376
480 019	0562	06 02	05	19830503	19840117	PC	83-360
480 019	0562	14 02 12 02 27	05	19830503	19840117	PC	83-361
480 019	N/A	06 02 00	NA	19830503	19840307	C*	84-091
480 020	0654	06 02 05	05	19830503	19840406	C	84-066
480 021	N/A	06 02 05 02 01	NA	19830503	19831122	C	83-554
480 022	N/A	06 02 05	NA	19830503	19831103	C	83-555
480 023	N/A	06 02 05	NA	19830503	19830908	C	83-556
480 024	N/A	06 02 06	NA	19830503	19840117	C	84-236
480 025	N/A	06 02 02	NA	19830503	19830902	C	83-557
480 026	0616	06 03	05	19830503	19840117	C	84-134
480 026	0616	06 02 01 05	05	19830503	19840117	C	84-135
490 001	N/A	04 04	NA	19830503	19821022	80	82-322
492 001	0497	04 04 00	04	19830503	19830902	C	83-288
492 002	N/A	04 04 00	NA	19830503	19840406	PC	84-067
492 003	N/A	04 04 00	NA	19830503	19840406	C*	84-068
620 001	N/A	18	NA	19820820	19821022	C	82-297
630 001	0210	13 02 02	02	19820820	19821022	C	82-210
630 002	0211	13 02 05	02	19820820	19821022	C	82-211
630 003	N/A	13 02	NA	19830412	19830715	C	83-558
630 004	N/A	13 02	NA	19830412	19830902	PC	83-559
630 005	0485	13 02	04	19830412	19830902	C	83-273
630 006	N/A	13 02	NA	19830412	19830902	C	83-360
630 007	N/A	13 02	NA	19830412	19830715	C	83-561
630 008	N/A	13 02	NA	19830412	19830715	C	83-562
630 009	0568	13 02	04	19830412	19830908	C	83-367
630 010	N/A	13 02	NA	19830412	19830902	C*	83-563
630 011	0486	13 02	04	19830412	19830902	C	83-274
630 012	N/A	13 02	NA	19830412	19830715	C	83-564
640 001	0206	14 02 04	02	19820820	19821022	C*	82-206
640 001	N/A	14 02 04 02 02	NA	19830601	19830902	C	83-565
640 002	N/A	14 02 05	NA	19820820	19821022	C*	82-298
640 002	0548	14 02 07	04	19830601	19830902	C	83-344
640 003	N/A	14 02 12	NA	19820820	19821022	C*	82-299
640 003	0569	14 02 12	04	19830601	19830902	C	83-368
640 004	N/A	14 02 12	NA	19830601	19830902	C	83-566
640 005	0519	14 02 12 02 29	04	19830601	19830902	C	83-311
640 006	0547	14 02 12	04	19830601	19830902	C	83-343
640 007	0546	14 02 12 02 30	04	19830601	19830902	C	83-342
640 008	N/A	14 02 12 02 02	NA	19830601	19830902	C	83-567

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QUESTION NUMBER	SCN #	FSAR SECTION	AMEND #	NRC LTR DATE	RESPONSE DATE	STS	ITEM ID
640 009	0567	14 02 12 02 16	04	19830601	19830902	C	83-366
640 010	0566	14 02 12 02 12	04	19830601	19830902	C	83-365
640 011	0579	14 02 12 02 18	04	19830601	19830902	C	83-378
640 012	0551	14 02 12 02 04	04	19830601	19830902	C	83-347
640 013	0550	14 02 12 02 02	04	19830601	19830902	C	83-346
640 014	0545	14 02 12 02 12	04	19830601	19831103	C	83-341
640 015	N/A	14 02 12 02 12	NA	19830601	19831103	C	83-568
640 016	N/A	13 05	NA	19831014	19840117	C	84-238
810 001	N/A	13 03 02	NA	19820820	19821022	BO	82-300
AF01	N/A	N/A	NA	19841102	19840627	C	84-252
AF02	N/A	N/A	NA	19831102	19831102	C	83-447
AF03	N/A	N/A	NA	19831102	19831102	C	83-449
AF05	N/A	N/A	NA	19831102	19840627	C	81-071
AF06	N/A	N/A	NA	19831102	19831102	C	83-449
AF07	N/A	N/A	NA	19831102	19831102	C*	83-450
AF08	N/A	N/A	NA	19831102	19831102	C	83-451
AF09	N/A	N/A	NA	19831102	19831102	C	83-452
AF10	N/A	N/A	NA	19831102	19831102	C	83-453
AF11	N/A	N/A	NA	19831102	19840627	C	84-253
AF12	N/A	N/A	NA	19831102	19840627	C	84-073
AF13	N/A	N/A	NA	19831102	19831102	C	83-454
AF14	N/A	N/A	NA	19831102	19840627	C	84-074
AF15	N/A	N/A	NA	19831102	19840627	C	84-075
AF16	N/A	N/A	NA	19831102	19831102	C	83-455
AF17	N/A	N/A	NA	19831102	19840627	C	84-076
AF18	N/A	N/A	NA	19831102	19840627	C	84-077
AF19	N/A	N/A	NA	19831102	19840627	C*	84-078
AF20	N/A	N/A	NA	19831102	19840627	C	84-079
AF21	N/A	N/A	NA	19831102	19840627	C	84-080
AF22	N/A	N/A	NA	19831102	19840627	C	84-087
AF23	N/A	N/A	NA	19831102	19840627	C	84-081
AF24	N/A	N/A	NA	19831102	19840627	C	84-082
AF25	N/A	N/A	NA	19831102	19840627	C	84-083
NS5501	N/A	N/A	NA	19840419	19840514	C	84-246

TOTAL COUNT = 504

AUDIT FINDING NO. 1

In order to proceed with the audit, it was decided to discuss with Ebasco the deconvolution analysis for the plant. This issue was previously raised in review of the FSAR. Ebasco has applied the deconvolution methodology to a finite element model of the rock site. Since the rock is essentially elastic, in the range of interest, a reduction in motion at the base mat from that postulated at the surface would not be expected. In the analysis, credit was taken for such a reduction and the staff has disagreed that such results would not be expected for a rock site.

Accordingly, the staff will require that the recommendations of NUREG 0800, Section 3.7.2 will be followed. Specifically, either an elastic half-space analysis should be performed to confirm the finite elements analysis, or the site should be considered as a rock site, and a fixed-base analysis should be performed. In any case, the full value of the SSE/OBE should be input at the base mat without reduction.

RESPONSE TO FINDING NO. 1

An elastic half-space approach of seismic dynamic analysis of Category I structures has been performed in response to the staff's request. The analysis results confirm the acceptability of the finite element/boundaries approach employed for the WNP-3 seismic design.

The details of the elastic half-space analysis and comparison of the analysis results to the WNP-3 design basis are presented in Attachment 1.

ATTACHMENT 1