Oyster Creek
Reactor Pressure Vessel Fluence Profiles

This document contains excerpts of the following reports, plus the associated e-mail correspondence:

- Tables 3-1 and 3-2 from TransWare Enterprises, Inc. Report No. EXL-FLU-001-R-004, Revision 0, "OYSTER CREEK REACTOR PRESSURE VESSEL NEUTRON FLUENCE DISTRIBUTION," faxed on 04/05/2010 from Greg Harttraft (Exelon) to Eric Focht (NRC).

- Tables 7-1, 7-2, and 7-3 from TransWare Enterprises, Inc. Report No. EXL-FLU-001-R-002, Revision 0, "FLUENCE EVALUATION FOR OYSTER CREEK REACTOR PRESSURE VESSEL," faxed on 04/08/2010 from Greg Harttraft (Exelon) to Eric Focht (NRC).

Stevens, Gary

From: Focht, Eric
Sent: Monday, April 05, 2010 3:31 PM
To: Gregory.Harttraft@exeloncorp.com
Cc: guy.deboo@exeloncorp.com; Stevens, Gary
Subject: RE: Oyster Creek fluence report

Hi, Greg. Our fax number is 301-251-7420.

Thanks,
Eric

Eric Focht
Materials Engineer
US Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Division of Engineering
Office: (301) 251-7649
Blackberry: (202) 525-8601

From: Gregory.Harttraft@exeloncorp.com [mailto:Gregory.Harttraft@exeloncorp.com]
Sent: Monday, April 05, 2010 3:29 PM
To: Focht, Eric
Cc: guy.deboo@exeloncorp.com
Subject: RE: Oyster Creek fluence report

Please provide a Fax number and I can send the info.

Thanks,
Greg Harttraft

From: Focht, Eric [mailto:Eric.Focht@nrc.gov]
Sent: Thursday, April 01, 2010 1:36 PM
To: Harttraft, Gregory F:(GenCo-Nuc)
Cc: DeBoo, Guy:(GenCo-Nuc); Stevens, Gary
Subject: RE: Oyster Creek fluence report

Hi, Gary.

If you can't send us the reports in their entirety, can you extract and send to us the following:

1. Chapter 3 from TransWare Enterprises, Inc. Report No. EXL-FLU-001-R-004, Revision 0, "OYSTER CREEK REACTOR PRESSURE VESSEL NEUTRON FLUENCE DISTRIBUTION." and

2. Chapter 7 from TransWare Enterprises, Inc. Report No. EXL-FLU-001-R-002, Revision 0, " FLUENCE EVALUATION FOR OYSTER CREEK REACTOR PRESSURE VESSEL"

Thank you very much.

-Eric

Eric Focht
Materials Engineer
US Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Division of Engineering
Office: (301) 251-7649
Blackberry: (202) 525-8601

From: guy.deboo@exeloncorp.com [mailto:guy.deboo@exeloncorp.com]
Sent: Wednesday, March 31, 2010 2:39 PM
To: Focht, Eric
Cc: Gregory.Harttraft@exeloncorp.com
Subject: RE: Oyster Creek fluence report

Eric,

The Oyster Creek Stn would prefer sending the specific information needed from the report to you separately rather than sending the actual report. They requested that you contact Greg Harttraft directly to specify the information needed. He will then extract the data from the report and send it to you. Since Gary Stevens is familiar with the report, his assistance describing the necessary information may be helpful.

Here is Greg's contact information.

Greg Harttraft
Oyster Creek NPS
609-971-2287

Please get back to me if you have any problems with this request.

Thanks Guy

From: Focht, Eric [mailto:Eric.Focht@nrc.gov]
Sent: Tuesday, March 23, 2010 1:42 PM
To: DeBoo, Guy:(GenCo-Nuc)
Subject: Oyster Creek fluence report

Hello, Guy. As part of our effort to revise 10CFR50 App G, we are need of the fluence distribution (fluence vs. elevation) for the vessel. We have found a reference to a report on Oyster Creek that may have the info we need. If we use the report as part of our technical basis, we would have to make it publicly available (via ADAMS). The report we are looking for is TransWare report referenced as EXL-FLU-001-R004. If you have this report, may we have a copy and eventually make it publicly available?

Thanks,
Eric

Eric Focht
Materials Engineer
US Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Division of Engineering
Office: (301) 251-7649
Blackberry: (202) 525-8601

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TO: ERIC FOCHT

~~18~~ 16 PAGES (W/O THIS COVER)

GREG

Table 3-1
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Elevation

Azimuth (degrees)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
0.00	2.01E+18	3.20E+18
0.25	2.01E+18	3.20E+18
0.50	2.01E+18	3.21E+18
0.75	2.01E+18	3.21E+18
1.00	2.02E+18	3.21E+18
1.25	2.02E+18	3.21E+18
1.50	2.02E+18	3.21E+18
1.75	2.03E+18	3.23E+18
2.00	2.04E+18	3.24E+18
2.25	2.04E+18	3.25E+18
2.50	2.05E+18	3.26E+18
2.75	2.06E+18	3.28E+18
3.00	2.08E+18	3.30E+18
3.25	2.09E+18	3.32E+18
3.50	2.10E+18	3.34E+18
3.75	2.11E+18	3.36E+18
4.00	2.12E+18	3.37E+18
4.25	2.13E+18	3.39E+18
4.50	2.14E+18	3.40E+18
4.75	2.15E+18	3.42E+18

Table 3-1 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Elevation

Azimuth (degrees)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
5.00	2.16E+18	3.43E+18
5.25	2.17E+18	3.44E+18
5.50	2.17E+18	3.46E+18
5.75	2.19E+18	3.48E+18
6.00	2.20E+18	3.49E+18
6.25	2.21E+18	3.51E+18
6.50	2.22E+18	3.52E+18
6.75	2.23E+18	3.54E+18
7.00	2.24E+18	3.55E+18
7.25	2.25E+18	3.57E+18
7.50	2.26E+18	3.59E+18
7.75	2.28E+18	3.61E+18
8.00	2.30E+18	3.64E+18
8.25	2.32E+18	3.67E+18
8.50	2.33E+18	3.70E+18
8.75	2.36E+18	3.73E+18
9.00	2.38E+18	3.76E+18
9.25	2.40E+18	3.79E+18
9.50	2.42E+18	3.82E+18
9.75	2.44E+18	3.85E+18

Table 3-1 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Elevation

Azimuth (degrees)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
10.00	2.45E+18	3.88E+18
10.25	2.47E+18	3.90E+18
10.50	2.49E+18	3.93E+18
10.75	2.51E+18	3.98E+18
11.00	2.54E+18	4.03E+18
11.25	2.57E+18	4.07E+18
11.50	2.60E+18	4.12E+18
11.75	2.63E+18	4.17E+18
12.00	2.66E+18	4.22E+18
12.25	2.69E+18	4.27E+18
12.50	2.72E+18	4.32E+18
12.75	2.73E+18	4.35E+18
13.00	2.75E+18	4.38E+18
13.25	2.77E+18	4.41E+18
13.50	2.78E+18	4.43E+18
13.75	2.80E+18	4.46E+18
14.00	2.81E+18	4.49E+18
14.25	2.83E+18	4.51E+18
14.50	2.84E+18	4.54E+18
14.75	2.86E+18	4.56E+18

Table 3-1 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Elevation

Azimuth (degrees)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
15.00	2.88E+18	4.59E+18
15.25	2.89E+18	4.62E+18
15.50	2.91E+18	4.64E+18
15.75	2.93E+18	4.67E+18
16.00	2.95E+18	4.71E+18
16.25	2.97E+18	4.74E+18
16.50	2.99E+18	4.77E+18
16.75	3.00E+18	4.78E+18
17.00	3.00E+18	4.78E+18
17.25	3.01E+18	4.79E+18
17.50	3.01E+18	4.80E+18
17.75	3.02E+18	4.81E+18
18.00	3.03E+18	4.82E+18
18.25	3.04E+18	4.83E+18
18.50	3.05E+18	4.84E+18
18.75	3.03E+18	4.80E+18
19.00	3.00E+18	4.77E+18
19.25	2.98E+18	4.74E+18
19.50	2.96E+18	4.70E+18
19.75	2.94E+18	4.67E+18

Table 3-1 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Elevation

Azimuth (degrees)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
20.00	2.93E+18	4.64E+18
20.25	2.91E+18	4.61E+18
20.50	2.89E+18	4.58E+18
20.75	2.89E+18	4.59E+18
21.00	2.90E+18	4.60E+18
21.25	2.90E+18	4.61E+18
21.50	2.91E+18	4.62E+18
21.75	2.91E+18	4.62E+18
22.00	2.91E+18	4.63E+18
22.25	2.91E+18	4.63E+18
22.50	2.91E+18	4.64E+18
22.75	2.90E+18	4.62E+18
23.00	2.89E+18	4.60E+18
23.25	2.88E+18	4.59E+18
23.50	2.86E+18	4.57E+18
23.75	2.84E+18	4.54E+18
24.00	2.82E+18	4.51E+18
24.25	2.80E+18	4.47E+18
24.50	2.78E+18	4.44E+18
24.75	2.76E+18	4.40E+18

Table 3-1 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Elevation

Azimuth (degrees)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
25.00	2.74E+18	4.37E+18
25.25	2.71E+18	4.33E+18
25.50	2.69E+18	4.29E+18
25.75	2.68E+18	4.28E+18
26.00	2.68E+18	4.28E+18
26.25	2.67E+18	4.27E+18
26.50	2.67E+18	4.26E+18
26.75	2.67E+18	4.26E+18
27.00	2.67E+18	4.25E+18
27.25	2.67E+18	4.25E+18
27.50	2.67E+18	4.25E+18
27.75	2.67E+18	4.26E+18
28.00	2.67E+18	4.26E+18
28.25	2.67E+18	4.26E+18
28.50	2.67E+18	4.27E+18
28.75	2.67E+18	4.26E+18
29.00	2.67E+18	4.25E+18
29.25	2.66E+18	4.25E+18
29.50	2.66E+18	4.24E+18
29.75	2.67E+18	4.26E+18

Table 3-1 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Elevation

Azimuth (degrees)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
30.00	2.69E+18	4.28E+18
30.25	2.71E+18	4.30E+18
30.50	2.72E+18	4.33E+18
30.75	2.75E+18	4.37E+18
31.00	2.79E+18	4.41E+18
31.25	2.82E+18	4.46E+18
31.50	2.85E+18	4.50E+18
31.75	2.89E+18	4.56E+18
32.00	2.93E+18	4.61E+18
32.25	2.97E+18	4.67E+18
32.50	3.01E+18	4.73E+18
32.75	3.05E+18	4.79E+18
33.00	3.10E+18	4.85E+18
33.25	3.14E+18	4.92E+18
33.50	3.18E+18	4.98E+18
33.75	3.22E+18	5.03E+18
34.00	3.25E+18	5.07E+18
34.25	3.28E+18	5.12E+18
34.50	3.31E+18	5.16E+18
34.75	3.35E+18	5.21E+18

Table 3-1 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Elevation

Azimuth (degrees)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
35.00	3.38E+18	5.26E+18
35.25	3.42E+18	5.32E+18
35.50	3.46E+18	5.37E+18
35.75	3.51E+18	5.44E+18
36.00	3.56E+18	5.51E+18
36.25	3.61E+18	5.59E+18
36.50	3.66E+18	5.66E+18
36.75	3.73E+18	5.75E+18
37.00	3.79E+18	5.84E+18
37.25	3.85E+18	5.93E+18
37.50	3.91E+18	6.02E+18
37.75	3.94E+18	6.05E+18
38.00	3.96E+18	6.08E+18
38.25	3.99E+18	6.11E+18
38.50	4.01E+18	6.15E+18
38.75	4.02E+18	6.16E+18
39.00	4.03E+18	6.17E+18
39.25	4.04E+18	6.18E+18
39.50	4.05E+18	6.19E+18
39.75	4.08E+18	6.24E+18

Table 3-1 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Elevation

Azimuth (degrees)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
40.00	4.12E+18	6.29E+18
40.25	4.15E+18	6.34E+18
40.50	4.18E+18	6.39E+18
40.75	4.24E+18	6.47E+18
41.00	4.30E+18	6.56E+18
41.25	4.36E+18	6.65E+18
41.50	4.41E+18	6.74E+18
41.75	4.45E+18	6.80E+18
42.00	4.49E+18	6.86E+18
42.25	4.53E+18	6.91E+18
42.50	4.56E+18	6.97E+18
42.75	4.55E+18	6.95E+18
43.00	4.53E+18	6.93E+18
43.25	4.51E+18	6.90E+18
43.50	4.50E+18	6.88E+18
43.75	4.49E+18	6.86E+18
44.00	4.48E+18	6.85E+18
44.25	4.47E+18	6.84E+18
44.50	4.46E+18	6.82E+18
44.75	4.45E+18	6.81E+18
45.00	4.44E+18	6.80E+18

Table 3-2
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Azimuth

Elevation (cm)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
531.6537	8.07E+17	1.15E+18
534.1937	8.62E+17	1.23E+18
536.7337	9.22E+17	1.32E+18
539.2737	9.85E+17	1.41E+18
541.8137	1.05E+18	1.51E+18
544.3537	1.12E+18	1.61E+18
546.8937	1.20E+18	1.72E+18
549.4337	1.28E+18	1.84E+18
551.9737	1.37E+18	1.96E+18
554.5137	1.47E+18	2.10E+18
557.0537	1.53E+18	2.19E+18
559.5937	1.60E+18	2.29E+18
562.1337	1.68E+18	2.40E+18
564.6737	1.75E+18	2.51E+18
567.2137	1.83E+18	2.62E+18
569.7537	1.92E+18	2.74E+18
572.2937	1.97E+18	2.82E+18
574.8337	2.03E+18	2.90E+18

Table 3-2 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Azimuth

Elevation (cm)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
577.3737	2.09E+18	2.98E+18
579.9137	2.14E+18	3.06E+18
582.4537	2.21E+18	3.15E+18
584.9937	2.27E+18	3.24E+18
587.5337	2.31E+18	3.30E+18
590.0737	2.36E+18	3.36E+18
592.6137	2.40E+18	3.43E+18
595.1537	2.45E+18	3.49E+18
597.6937	2.49E+18	3.56E+18
600.2337	2.54E+18	3.62E+18
602.7737	2.57E+18	3.67E+18
605.3137	2.61E+18	3.72E+18
607.8537	2.64E+18	3.78E+18
610.3937	2.68E+18	3.83E+18
612.9337	2.72E+18	3.88E+18
615.4737	2.75E+18	3.94E+18
618.0137	2.79E+18	3.99E+18
620.5537	2.82E+18	4.04E+18
623.0937	2.86E+18	4.09E+18
625.6337	2.89E+18	4.14E+18
628.1737	2.93E+18	4.19E+18
630.7137	2.97E+18	4.25E+18

Table 3-2 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Azimuth

Elevation (cm)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
633.2537	3.00E+18	4.30E+18
635.7937	3.03E+18	4.35E+18
638.3337	3.07E+18	4.40E+18
640.8737	3.10E+18	4.45E+18
643.4137	3.13E+18	4.50E+18
645.9537	3.17E+18	4.56E+18
648.4937	3.20E+18	4.61E+18
651.0337	3.24E+18	4.67E+18
653.5737	3.27E+18	4.72E+18
656.1137	3.31E+18	4.78E+18
658.6537	3.35E+18	4.83E+18
661.1937	3.38E+18	4.89E+18
663.7337	3.42E+18	4.95E+18
666.2737	3.45E+18	5.00E+18
668.8137	3.49E+18	5.06E+18
671.3537	3.52E+18	5.11E+18
673.8937	3.56E+18	5.17E+18
676.4337	3.59E+18	5.23E+18
678.9737	3.63E+18	5.28E+18
681.5137	3.66E+18	5.34E+18
684.0537	3.70E+18	5.39E+18
686.5937	3.73E+18	5.45E+18

Table 3-2 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Azimuth

Elevation (cm)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
689.1337	3.77E+18	5.51E+18
691.6737	3.81E+18	5.57E+18
694.2137	3.84E+18	5.62E+18
696.7537	3.87E+18	5.67E+18
699.2937	3.90E+18	5.73E+18
701.8337	3.93E+18	5.78E+18
704.3737	3.96E+18	5.83E+18
706.9137	4.00E+18	5.89E+18
709.4537	4.03E+18	5.94E+18
711.9937	4.06E+18	5.99E+18
714.5337	4.09E+18	6.05E+18
717.0737	4.12E+18	6.10E+18
719.6137	4.15E+18	6.15E+18
722.1537	4.18E+18	6.21E+18
724.6937	4.21E+18	6.25E+18
727.2337	4.23E+18	6.30E+18
729.7737	4.26E+18	6.35E+18
732.3137	4.29E+18	6.40E+18
734.8537	4.32E+18	6.45E+18
737.3937	4.34E+18	6.50E+18
739.9337	4.36E+18	6.53E+18
742.4737	4.38E+18	6.57E+18

Table 3-2 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Azimuth

Elevation (cm)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
745.0137	4.40E+18	6.61E+18
747.5537	4.43E+18	6.65E+18
750.0937	4.45E+18	6.69E+18
752.6337	4.47E+18	6.73E+18
755.1737	4.48E+18	6.76E+18
757.7137	4.50E+18	6.79E+18
760.2537	4.51E+18	6.82E+18
762.7937	4.52E+18	6.85E+18
765.3337	4.54E+18	6.88E+18
767.8737	4.55E+18	6.91E+18
770.4137	4.55E+18	6.92E+18
772.9537	4.56E+18	6.93E+18
775.4937	4.56E+18	6.94E+18
778.0337	4.56E+18	6.95E+18
780.5737	4.56E+18	6.96E+18
783.1137	4.56E+18	6.97E+18
785.6537	4.55E+18	6.96E+18
788.1937	4.54E+18	6.95E+18
790.7337	4.53E+18	6.95E+18
793.2737	4.52E+18	6.94E+18
795.8137	4.51E+18	6.93E+18
798.3537	4.50E+18	6.92E+18

Table 3-2 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Azimuth

Elevation (cm)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
800.8937	4.47E+18	6.88E+18
803.4337	4.44E+18	6.83E+18
805.9737	4.41E+18	6.79E+18
808.5137	4.38E+18	6.75E+18
811.0537	4.36E+18	6.71E+18
813.5937	4.33E+18	6.67E+18
816.1337	4.27E+18	6.59E+18
818.6737	4.22E+18	6.51E+18
821.2137	4.17E+18	6.44E+18
823.7537	4.12E+18	6.36E+18
826.2937	4.07E+18	6.29E+18
828.8337	4.02E+18	6.21E+18
831.3737	3.94E+18	6.09E+18
833.9137	3.86E+18	5.97E+18
836.4537	3.79E+18	5.85E+18
838.9937	3.71E+18	5.73E+18
841.5337	3.64E+18	5.61E+18
844.0737	3.57E+18	5.50E+18
846.6137	3.46E+18	5.32E+18
849.1537	3.35E+18	5.15E+18
851.6937	3.25E+18	4.98E+18
854.2337	3.15E+18	4.82E+18

Table 3-2 (Continued)
RPV Inner Surface Neutron Fluence for Energy >1.0 MeV at the Peak Fluence Azimuth

Elevation (cm)	Fluence for 32 EFPY (n/cm^2)	Fluence for 50 EFPY (n/cm^2)
856.7737	3.06E+18	4.66E+18
859.3137	2.96E+18	4.51E+18
861.8537	2.83E+18	4.30E+18
864.3937	2.71E+18	4.10E+18
866.9337	2.59E+18	3.91E+18
869.4737	2.48E+18	3.73E+18
872.0137	2.37E+18	3.56E+18
874.5537	2.27E+18	3.39E+18
877.0937	2.08E+18	3.12E+18
879.6337	1.92E+18	2.86E+18
882.1737	1.76E+18	2.63E+18
884.7137	1.62E+18	2.41E+18
887.2537	1.49E+18	2.22E+18
889.7937	1.37E+18	2.04E+18
892.3337	1.26E+18	1.87E+18
894.8737	1.15E+18	1.72E+18
897.4137	1.06E+18	1.58E+18

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TO: ERIC FOCHT

2 ~~18~~ PAGES (W/O THIS COVER)

GREG

Table 7-1
Maximum >1.0 MeV Neutron Fluence in RPV Welds

Shell Location	Weld ID#	32 EFPY Fluence (n/cm^2)	50 EFPY Fluence (n/cm^2)
Upper	2-563A	7.94E+10	1.18E+11
	2-563B	6.10E+10	9.03E+10
	2-563C	7.94E+10	1.18E+11
Upper Intermediate	2-563D	3.60E+16	5.23E+16
	2-563E	4.07E+16	6.01E+16
	2-563F	3.60E+16	5.23E+16
Lower Intermediate	2-564A	4.12E+18	6.16E+18
	2-564B	3.02E+18	4.66E+18
	2-564C	2.50E+18	3.85E+18
Circumferential	3-564	2.69E+18	3.76E+18
Lower	2-564D	1.99E+18	2.98E+18
	2-564E	2.20E+18	3.30E+18
	2-564F	2.66E+18	3.71E+18

Table 7-2
Maximum >1.0 MeV Neutron Fluence in RPV Shells

Shell Location	32 EFPY Fluence (n/cm^2)	50 EFPY Fluence (n/cm^2)
Upper	1.92E+11	2.92E+11
Upper Intermediate	7.59E+16	1.07E+17
Lower Intermediate	4.66E+18	6.97E+18
Lower	2.69E+18	3.76E+18

Also provided are the RPV elevations at which the fluence reached a value of 1.0E+17 n/cm^2 for both 32 EFPY and 50 EFPY. Table 7-3 lists the RPV elevations where this occurs for both time projections.

Table 7-3
Elevations at which Fluence Reaches 1.0E+17 n/cm^2 in RPV Shells

Shell Location	Elevation for 32 EFPY Fluence	Elevation for 50 EFPY Fluence
Lower	491.5404 cm (193.52 in)	485.9107 cm (191.30 in)
Upper	934.7868 cm (368.03 in)	945.3969 cm (372.20 in)