

December 7, 2023

L-23-260

10 CFR 50.36a

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT:

Davis-Besse Nuclear Power Station, Unit 1
Docket Number 50-346, License Number NPF-3
Corrections to the 2022 Combined Annual Radiological Environmental Operating Report
and Radioactive Effluent Release Report for the Davis-Besse Nuclear Power Station

By letter dated May 12, 2023, Energy Harbor Nuclear Corp. submitted the combined 2022 Annual Radiological Environmental Operating Report (AREOR) and Annual Radioactive Effluent Release Report (ARERR) for the Davis-Besse Nuclear Power Station (DBNPS) pursuant to Technical Specifications 5.6.1 and 5.6.2 (ADAMS Accession No. ML23132A322). Subsequent to this submittal, the following errors were identified in the report:

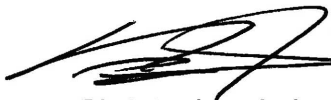
- 1) In Table 14, "Gaseous Effluents – Summation of All Releases", the values for "Particulates with half-lives greater than 8 Days" include Carbon-14 (C-14) values; however, C-14 values are listed separately in the same table. Therefore, the correct quarterly particulate values without C-14 included are 0.00E+00, 1.05E-03, 0.00E+00, and 2.62E-04 Ci, respectively. Accordingly, the quarterly "Average Release Rate for Period" for particulates are now N/A, 1.26E-04, N/A, and 3.30E-05 uCi/sec, respectively.
- 2) In Table 16 "Gaseous Effluents – Mixed Mode Releases, Batch Mode" the value for Tritium (H-3) and Total for the First Quarter of 2022 was reported as "6.38E-0". All values in this table are reported following format: "n.nnE-nn"; the correct value is 6.38E-02 Ci.
- 3) Also in Table 16 the value for H-3 for the Third Quarter of 2022 was reported as 2.40E-04, while the Total was reported as "0.00E+00". The correct total value is 2.40 E-04 Ci.
- 4) Also, in Table 16, under "Fission Gases" "Total for Period" the Units field was blank in the report, it has been entered (Ci).

The corrected pages of the 2022 report are enclosed; the revisions are indicated by a revision bar in the right-hand margin. The issues were determined to constitute small errors in accordance with Regulatory Guide 1.21 Revision 3, Measuring, Evaluating, and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste.

Davis-Besse Nuclear Power Station, Unit 1
L-23-260
Page 2 of 2

There are no regulatory commitments contained in this letter. If there are any questions or if additional information is required, please contact Mr. Alan Filipiak, Manager, Radiation Protection and Chemistry, at (419) 321-8002.

Sincerely,



FILIPIAK
FOR CHRIS JACKSON

Christopher J. Jackson
General Plant Manager, Nuclear
Davis-Besse Nuclear Power Station

GMW

Enclosure: Corrections to the 2022 Annual Radiological Environmental Operating Report, including the Annual Radioactive Effluent Release Report for the Davis-Besse Nuclear Power Station

cc: Regional Administrator, NRC Region III
DB-1 NRC Senior Resident Inspector
DB-1 NRC/NRR Project Manager
Branch Chief, Division of Reactor Projects, Branch 2
Utility Radiological Safety Board

L-23-260
Enclosure

**Corrections to the
2022 Annual Radiological Environmental Operating Report,
including the Annual Radioactive Effluent Release Report**

for the

Davis-Besse Nuclear Power Station

(2 pages follow)

Table 14
Gaseous Effluents - Summation of All Releases

Nuclide	Unit	1st Qtr 2022	2nd Qtr 2022	3rd Qtr 2022	4th Qtr 2022
<u>Fission and Activation Gases</u>					
Total Release	Ci	1.19E-01	5.35E-04	0.00E+00	2.13E-02
Average Release Rate for Period	uCi/sec	1.49E-02	6.43E-05	N/A	2.69E-03
Percent of applicable limits:	See Supplemental Information in ODCM Release Limits Section 3.3, Gaseous Effluent Setpoint Determination				
<u>Iodines</u>					
Total Iodines (I-131)	Ci	9.03E-02	0.00E+00	0.00E+00	2.68E-06
Average Release Rate for Period	uCi/sec	1.13E-02	N/A	N/A	3.38E-07
Percent of applicable limits:	See Supplemental Information in ODCM Release Limits Section 3.3, Gaseous Effluent Setpoint Determination				
<u>Particulates</u>					
Particulates with half-lives greater than 8 days	Ci	0.00E+00	1.05E-03	0.00E+00	2.62E-04
Average Release Rate for Period	uCi/sec	N/A	1.26E-04	N/A	3.30E-05
Percent of applicable limits:	See Supplemental Information in ODCM Release Limits Section 3.3, Gaseous Effluent Setpoint Determination				
<u>Gross Alpha Activity</u>	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<u>Tritium</u>					
Total Release	Ci	6.06E+00	4.95E+00	3.64E+00	3.98E+00
Average Release Rate for Period	uCi/sec	7.75E-01	5.95E-01	4.75E-01	5.02E-01
Percent of applicable limits:	See Supplemental Information in ODCM Release Limits Section 3.3, Gaseous Effluent Setpoint Determination				
<u>Carbon-14</u>					
Total Release	Ci	1.70E+00	2.08E+00	2.71E+00	2.33E+00

Note: The average release rate is taken over the entire quarter, not over the time the time period of the releases.

Table 16
Gaseous Effluents - Mixed Mode Releases
Batch Mode

Nuclide	Unit	1st Qtr 2022 ⁽¹⁾	2nd Qtr 2022 ⁽¹⁾	3rd Qtr 2022 ⁽¹⁾	4th Qtr 2022 ⁽¹⁾
Fission Gases					
Ar-41	Ci	8.11E-02	<LLD	<LLD	1.11E-04
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	3.70E-02	5.35E-04	<LLD	2.12E-02
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	1.04E-03	<LLD	<LLD	<LLD
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD
Total for Period:	Ci	1.19E-01	5.35E-04	0.00E+00	2.13E-02
*Iodines					
I-131	Ci	<LLD	<LLD	<LLD	2.68E-06
I-133	Ci	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD
Total for Period:	Ci	0.00E+00	0.00E+00	0.00E+00	2.68E-06
*Particulates & Tritium					
H-3	Ci	6.38E-02	4.10E-03	2.40E-04	4.67E-03
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD
Ba-La-140	Ci	<LLD	<LLD	<LLD	<LLD
Total for Period:	Ci	6.38E-02	4.10E-03	2.40E-04	4.67E-03

(1) LLDs for Mixed Mode Gaseous Releases – Batch Mode are listed on page 90.

* Release of iodines and particulates are quantified in Mixed Mode Releases, Continuous Mode (Unit Station Vent)