

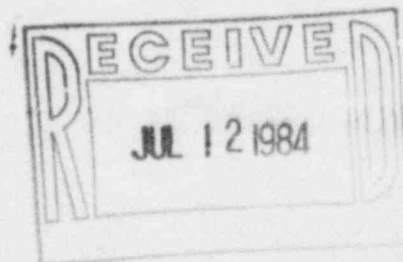


Public Service Company of Colorado

16805 WCR 19 1/2, Platteville, Colorado 80651

50-267

July 2, 1984
Fort St. Vrain
Unit #1
P-84192



Mr. E.H. Johnson, Chief
Reactor Project Branch 1
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

SUBJECT: Post Accident Sampling
System Implementation

Reference: 1) P-82423 DW Warembourg to RA Clark,
dated September 27, 1982
2) G-83349, GL Madsen to OR Lee,
dated September 22, 1983
3) P-83352, FJ Borst to GL Madsen,
dated October 28, 1983

Dear Mr. Johnson:

This is to confirm that the Fort St. Vrain Post Accident Sampling System is currently installed and operable, effective June 1, 1984. As you are probably aware, our post accident sampling system utilized the identical sample line as our normal primary coolant sampling system; thus we are able to verify on a continuing basis that the sampling system is operable. Per REFERENCE 3, however, it was necessary to make one modification to the collection system to enable us to obtain the small (approximately 0.04 SCC) sample required. This modification was made via Temporary Configuration Report number 83-1103 and involved installing a more sensitive pressure gauge in the system. Design Change Action Request 467, dated 5/15/84 was also issued for this change.

The procedure for obtaining post accident samples of primary coolant is contained in Health Physics Procedure (HPP)-14, Analytical Instrumentation. Mr. Ron Baer of your office is on controlled distribution for this procedure. As a courtesy, a copy of the applicable portion of HPP-14 is attached.

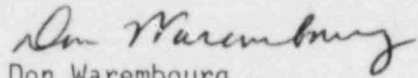
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If you have any further questions on this matter, please contact Mr. Ted Borst of my staff at (303) 571-7436.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Don Warembourg".

Don Warembourg
Manager, Nuclear Production
Fort St. Vrain Nuclear
Generating Station

DWW/dal

Attachment



5.12 PRIMARY COOLANT SAMPLING DURING ACCIDENT CONDITIONS

5.12.1 Initial Requirements

- a) Determine the expected radiological conditions in the access to and in the Analytical Instrumentation Room.
- b) Determine the expected activity of the Primary Coolant, as required.
- c) Stop all the sample flows to I-9325 from the Control Room.
- d) Don the proper protective clothing based on the determinations in STEPS a) and b).
- e) Monitor radiation levels when entering the A.I. Room.
- f) Set up a portable shielded container, if needed, as not to exceed 3 Rem (Whole Body) or 18.75 Rem (Extremities) to any individual involved. (EMERGENCY LIMIT: 25 REM, WHOLE BODY)
- g) Proceed to the A.I. Room and establish the valve lineup per Attachment HPP-14B.6.
- h) Set up A.I. panel to collect sample as per following procedure.
- i) Notify Radiochemistry Lab personnel of pending sample.

5.12.2 2 ml Sample Collection

- a) Place 2 ml vial into lucite dummy and insert dummy into facility such that the needle will pierce the center of the vial cap. Lucite dummy must be inserted one way only, and dummy is marked as to top.
- b) CLOSE facility door and tighten latch firmly.
- c) Ensure valves HS-93433, HS-93434, HS-93413, HS-93432, HS-93414, and HS-93416 are CLOSED.
- d) OPEN valve HS-93415. If micro switches ZS-93416 and ZS-93415 are actuated, the valve will open.



- e) OPEN valves HS-93431 and HS-93435, then evacuate system using P-9301. Evacuate to 20-25" Hg.
- f) SHUT off P-9301.
- g) CLOSE HS-93435 and HS-93431.
- h) Bypass the RT 7312 control actions, if required, to allow the opening of the Primary Coolant sample line to I-9325, then OPEN the appropriate sample isolation valve (HS-9316 or HS-93256).
- i) OPEN HS-93433 and HS-93434. Adjust pressure to a maximum of 2.5 psig as indicated on PI-93405 using PCV-93412.
- j) Purge sample line >100 cc/min for a minimum of one minute, as indicated on FI-93607.
- k) Record initial vacuum indication on PI 93406.
- l) Open sample metering valve very slowly until approximately a 0.4 inch decrease in vacuum is observed on PI-93406.
- m) Close the metering valve.
- n) Record final vacuum indication on PI 93406.
- o) CLOSE HS-93415 and HS-93435.
- p) Remove the sample bottle from the collection facility and place in the shielded container, if necessary.
- q) SHUT the sample isolation valve from the Control Room.
- r) Transport the sample by the most direct route to the on-site analysis area, and place directly into the shielded storage area, if required, until sample is to be analyzed.



PUBLIC SERVICE COMPANY OF COLORADO

FORT ST. VRAIN NUCLEAR GENERATING STATION

Attach. HPP-14K

Issue 18

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VOLUME COLLECTED IN VARIOUS SERUM VIALS BASED ON EVACUATION AND BACKFILL METHOD

DELTA IN.CH.	V(3) sec	V(125) sec	DELTA IN.CH.	V(3) sec	V(125) sec	DELTA IN.CH.	V(3) sec	V(125) sec
12.00	1.09	48.65	8.00	0.72	32.43	4.00	0.36	16.22
11.90	1.08	48.24	7.90	0.72	32.03	3.90	0.35	15.81
11.80	1.07	47.84	7.80	0.71	31.62	3.80	0.34	15.40
11.70	1.06	47.43	7.70	0.70	31.22	3.70	0.34	15.00
11.60	1.05	47.03	7.60	0.69	30.81	3.60	0.33	14.59
11.50	1.04	46.62	7.50	0.68	30.40	3.50	0.32	14.19
11.40	1.03	46.22	7.40	0.67	30.00	3.40	0.31	13.78
11.30	1.02	45.81	7.30	0.66	29.59	3.30	0.30	13.38
11.20	1.01	45.40	7.20	0.65	29.19	3.20	0.29	12.97
11.10	1.01	45.00	7.10	0.64	28.78	3.10	0.28	12.57
11.00	1.00	44.59	7.00	0.63	28.38	3.00	0.27	12.16
10.90	0.99	44.19	6.90	0.62	27.97	2.90	0.26	11.76
10.80	0.98	43.78	6.80	0.62	27.57	2.80	0.25	11.35
10.70	0.97	43.38	6.70	0.61	27.16	2.70	0.24	10.95
10.60	0.96	42.97	6.60	0.60	26.76	2.60	0.24	10.54
10.50	0.95	42.57	6.50	0.59	26.35	2.50	0.23	10.13
10.40	0.94	42.16	6.40	0.58	25.95	2.40	0.22	9.73
10.30	0.93	41.76	6.30	0.57	25.54	2.30	0.21	9.32
10.20	0.92	41.35	6.20	0.56	25.13	2.20	0.20	8.92
10.10	0.91	40.94	6.10	0.55	24.73	2.10	0.19	8.51
10.00	0.91	40.54	6.00	0.54	24.32	2.00	0.18	8.11
9.90	0.90	40.13	5.90	0.53	23.92	1.90	0.17	7.70
9.80	0.89	39.73	5.80	0.53	23.51	1.80	0.16	7.30
9.70	0.88	39.32	5.70	0.52	23.11	1.70	0.15	6.89
9.60	0.87	38.92	5.60	0.51	22.70	1.60	0.14	6.49
9.50	0.86	38.51	5.50	0.50	22.30	1.50	0.14	6.08
9.40	0.85	38.11	5.40	0.49	21.89	1.40	0.13	5.68
9.30	0.84	37.70	5.30	0.48	21.49	1.30	0.12	5.27
9.20	0.83	37.30	5.20	0.47	21.08	1.20	0.11	4.86
9.10	0.82	36.89	5.10	0.46	20.68	1.10	0.10	4.46
9.00	0.82	36.49	5.00	0.45	20.27	1.00	0.09	4.05
8.90	0.81	36.08	4.90	0.44	19.86	0.90	0.08	3.65
8.80	0.80	35.67	4.80	0.43	19.46	0.80	0.07	3.24
8.70	0.79	35.27	4.70	0.43	19.05	0.70	0.06	2.84
8.60	0.78	34.86	4.60	0.42	18.65	0.60	0.05	2.43
8.50	0.77	34.46	4.50	0.41	18.24	0.50	0.05	2.03
8.40	0.76	34.05	4.40	0.40	17.84	0.40	0.04	1.62
8.30	0.75	33.65	4.30	0.39	17.43	0.30	0.03	1.22
8.20	0.74	33.24	4.20	0.38	17.03	0.20	0.02	0.81
8.10	0.73	32.84	4.10	0.37	16.62	0.10	0.01	0.41

ASSUME ACTUAL VOLUME OF 2.71 sec FOR THE SMALL VIAL
AND 121.3 sec FOR THE LARGE VIAL.