

BFN-18

TABLE 10.17-1
LIQUID SAMPLES
(Sheet 1)

<u>Item</u>	<u>Description</u>	<u>Location</u>	<u>Purpose</u>	<u>Remarks</u>
1	Reactor Water	Recirculation Pipe	Monitor reactor water when cleanup system is isolated	Grab Sample Sample Cooling
2	Reactor Water Cleanup a. Filter-Demineralizer Influent b. Filter-Demineralizer Effluent	Filter-demineralizer inlet pipe Outlet piping from each filter demineralizer	Monitor reactor water conductivity Filter-demineralizer efficiency	Cont. (a), C.E.(b) Grab Sample Cont. (a), C.E.(b) Grab Sample
3	Steam Samples	Main steam lines (before stop valve)	Various	Grab Sample
4	Standby Liquid Control System a. Tank b. Recirculation Line	At tank Recirculation pipe	Borate Concentration Borate Concentration	Grab Sample Grab Sample
5	Pressure Suppression Pool	Suppression Recirculation and equipment test line	Check radiochemical concentrations	Grab Sample
6	Feedwater	After last heater	Corrosion studies	Grab Sample Sample Cooling
7	Closed Loop Cooling Water a. Closed Loop Cooling Water b. Closed Loop Cooling Water	Outlet of each major heat exchanger Pump Discharge	Determine location of heat exchanger leaks Check corrosion inhibitor concentration	Grab Sample Grab Sample

* For notes, see final sheet of Table 10.17-1

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TABLE 10.17-1
LIQUID SAMPLES
(Sheet 2)

<u>Item</u>	<u>Description</u>	<u>Location</u>	<u>Purpose</u>	<u>Remarks</u>
8	Waste Disposal			
a.	Waste Surge Tank	Outlet Pipe	Process data	Grab Sample
b.	Waste Collector Tank	Pump Discharge	Process data	Grab Sample
c.	Floor Drain Collector Tank	Pump Discharge	Process data	Grab Sample
d.	Chemical Waste Tank	Pump Discharge	Process data	Grab Sample
e.	Waste Sample Tank	Pump Discharge	Recycle/Discharge suitability	Grab Sample
f.	Floor Drain Sample Tank	Pump Discharge	Discharge suitability	Grab Sample
g.	Fuel Pool Filter-Demineralizer Influent	Inlet Pipe	Fuel pool quality	Grab Sample
h.	Fuel Pool Filter-Demineralizer Effluent	Outlet Pipe	Filter-Demineralizer Efficiency	Cont.(a),C.E.(b) Grab Sample
i.	Floor Drain Filter Effluent	Outlet Pipe	Filter Efficiency	Cont.(a),C.E.(b) Grab Sample
j.	Waste Demineralizer Effluent	Outlet Pipe	Demineralizer Efficiency	Cont.(a),C.E.(b) Grab Sample
9	Condensate			
a.	Condensate	Condensate Pump Discharge	Condensate quality and tube leaks	Cont.(a),C.E.(b) Grab Sample
b.	Condensate Demineralizer Effluent	Condensate Booster Pump Discharge	Treated condensate quality	Cont.(a),C.E.(b) Grab Sample
10	Raw Cooling Water	Discharge from Closed Cooling Water Heat Exchanger	Determine no radioactivity release	Grab Sample
11	Makeup/Reuse			
a.	Demineralized Water Storage Tank	At Tank	Water quality	Grab Sample
b.	Condensate Storage Tank	At Tank	Water quality	Grab Sample

* For notes, see final sheet of Table 10.17-1

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LIQUID SAMPLES
(Sheet 3)

<u>Item</u>	<u>Description</u>	<u>Location</u>	<u>Purpose</u>	<u>Remarks</u>
12	Special Samples a. Laundry Drain Tanks	Pump Discharge	Discharge suitability	Grab Sample
13	RHR Heat Exchanger	Service Water Discharge	No Radioactive release	Grab Sample

NOTES:

- a. Continuously flowing sample.
- b. Sample line conductivity element.

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TABLE 10.17-2
GASEOUS SAMPLES

<u>Activity Item</u>	<u>Description</u>	<u>Location</u>	<u>Purpose</u>	<u>Remarks</u>
1	Air Ejector Off-gas Sample (c)	After Air Ejectors (Before 30 min. holdup)	Activity Release	Cont.(a),R.E.(b) Grab Sample
2	Offgas Filter Samples	Inlet and Outlet (After 30 min. holdup)	Determine filter efficiency	Grab Sample
3	Stack Sample a. Noble Gas b. Particulate c. Iodine	Stack	Activity release Particle release Iodine release	Cont. (a), R.E.(b) Grab Sample (c) Grab Sample (c)
4	Ventilation a. Reactor Bldg. b. Radwaste Bldg. c. Turbine Bldg.	Fan Discharge Fan Discharge Fan Discharge	Activity release Activity release Activity release	Cont.(a),R.E.(b) Grab Sample Grab Sample Grab Sample
5	Standby Gas Treatment System	Before and after each filter	Filter efficiency	Grab Sample

NOTES:

- a. Continuous flowing sample, continuously monitored.
- b. Radiation element on sample line, continuously monitored.
- c. Post-accident high range, continuously monitored.