



POWER AUTHORITY OF THE STATE OF NEW YORK  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

DOCKET NO. 50-333

ATTACHMENT TO LER 83-012/04T-0

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The Nine Mile Point Unit #1 plant was shut down at the time, with the circulating water pumps off, and one service water pump in operation. The normal INTAKE and DISCHARGE tunnels were operating in reverse flow mode due to the installation of a new tempering gate. In this mode, the INTAKE sampling equipment was sampling the service water effluent, and the DISCHARGE sampling equipment was sampling the inlet water flow. In this configuration, the liquid waste discharge line, which empties into the normal DISCHARGE tunnel, was effectively discharging into the plant inlet due to the reverse flow. Therefore the INTAKE and DISCHARGE sampling points were downstream of the liquid waste discharge rather than their normal upstream locations. Therefore, the tritium, as expected, was from previous, planned, legal discharges in October and does not represent a tritium contamination of Lake Ontario water. Inlet water grab samples taken and analyzed in November and December showed only naturally occurring radionuclides.