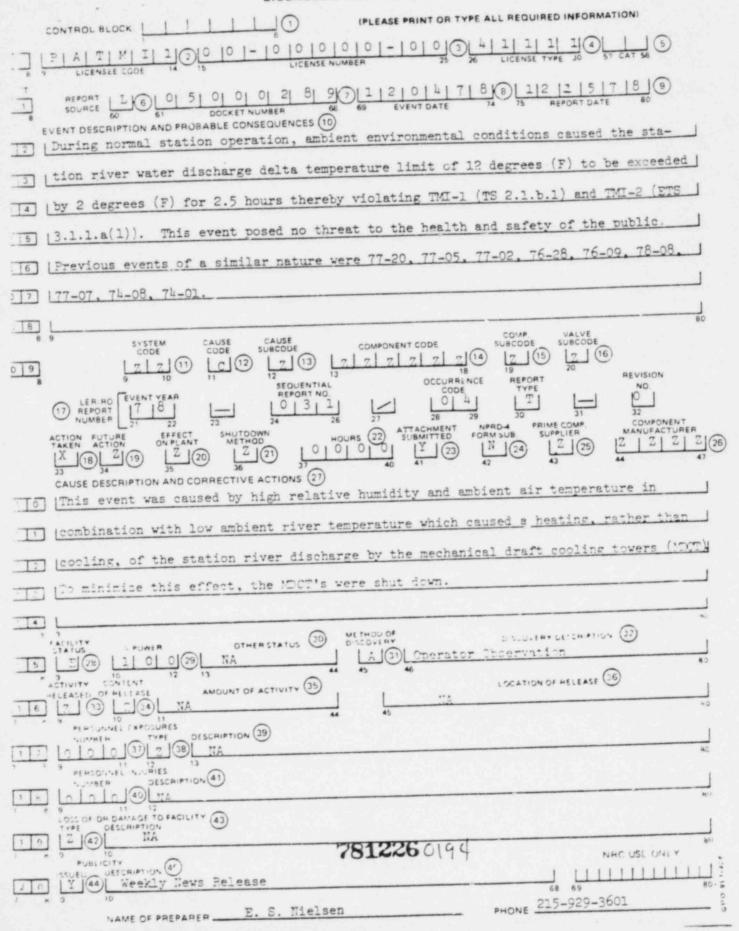
JRM 366

LICENSEE EVENT REPORT



NARRATIVE TO LER 78-31/4T

During normal station operation on December 4, 1978, a combination of environmental conditions, specifically ambient air temperature of 61 degrees (F), near 100% relative humidity and 42 degrees (F) river water temperature caused the Mechanical Draft Cooling Towers (MDCT) to warm rather than cool the station discharge.

A review of the circumstances surrounding this event indicate that the unusual environmental conditions as stated, caused the 12 degree delta temperature (AT), limit to be exceeded. In addition, to minimize the impact of this event, the MDCT's were temporarily shut down.

The Pennsylvania Department of Environmental Resources (PaDER), under Pennsylvania Code Title 25.97.82, has established thermal pollution limitations to prevent injury to the public health or to animal or aquatic life in waters of the Commonwealth. The heat content of discharges shall be limited to an amount which could not raise the temperature of the entire streps (assuming complete mixing) at the point of discharge 5 degrees (F) above the ambient river temperature. Data submitted to and accepted by the PaDER in June of 1977 demonstrates that when using a conservative 1/6 the river width for TMI's mixing zone (as opposed to the entire river as stated in 25 Pa. 97.82), a discharge flow rate of 60 MGD (as did occur on 12-4-78) could exhibit a AT of up to 26.58 degrees (F) before exceeding the allowable 5 degrees (F) rise in river temperature under 25 Pa. 97.82.

Eased upon the preceeding information and the fact that in this instance the LT did not rise above 26.58 degrees (F), we conclude that there was not a significant adverse environmental impact nor threat to the safety and health of the public.