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BUTLER,W.R. Licensing Branch 2

SUBJECT: Provides status rept of completed activities & planned work re installation of two meteorological monitors & implementation of enhanced primary emergency dose projection sys.Addl towers in place & final calibr completed.

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MAY 30 1985

Director of Nuclear Reactor Regulation
Attention: Mr. W. R. Butler, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
ADDITIONAL MET TOWERS
ER 100450 FILE 893
PLA-2467

Dear Mr. Butler:

In PLA-1788, dated August 25, 1983, PP&L notified the NRC of its intent to install two permanent supplemental meteorological monitors in the Susquehanna River Valley near Susquehanna SES. Additionally, we embarked on the design and implementation of an enhanced primary emergency dose projection system.

This letter provides a status report of completed activities and planned work.

The additional meteorological towers were added to the system to provide improved wind data in the river valley. The terrain effects on wind patterns in the valley are quite pronounced; however, they are neither constant nor predictable enough to warrant reliance on fixed terrain correction factors. The additional data provided by the supplemental towers is to be used to implement a projection model which includes dynamic terrain correction factors.

The dose projection model being implemented is based on MESOI Version 2.0, An Interactive Mesoscale Lagrangian Puff Dispersion Model with Disposition and Decay as described in NUREG/CR-3344.

This model is being enhanced to provide additional features required to aid in release assessment and protective action determination. These enhancements include these major items:

- Dose and deposition calculation enhancements.
- Real time input of meteorological and vent release data.
- Interactive input data editing.
- Continuous archiving of meteorological and vent release data with interactive retrieval.

Cool
1/0

The dose projection model is being implemented on an existing computer system located in the Emergency Operations Facility (EOF).

Current Status

The additional meteorological towers are in place and final calibration has been completed. The data from these towers is being transmitted to the EOF where it is being maintained for use by the dose projection model and retrieval by users.

The communication lines to support transmission of vent release data are in place and communication software design and implementation is proceeding. The MESOI model has been installed on the EOF computers and implementation of the enhancements and real time data input is proceeding. We anticipate completing these efforts during the second quarter of 1986.

Very truly yours,

N. W. Curtis
Vice President-Engineering & Construction-Nuclear

cc: M. J. Campagnone - NRC
R. H. Jacobs - NRC