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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv
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SUBJECT: Submits info re meteorological sys, in response to NRC informal questions. Dual source power supplies will be provided to both primary & backup towers. FSAR will be revised in mid-Sept. Diagram of primary tower encl.

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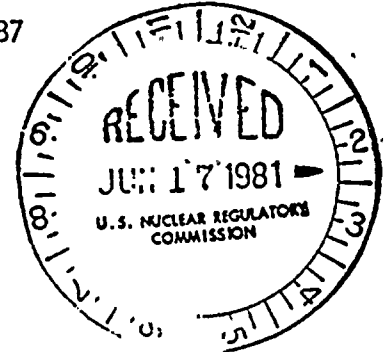
TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 PHONE: (215) 770-5151

NORMAN W. CURTIS
Vice President-Engineering & Construction-Nuclear
770-5381

June 16, 1981

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Docket Nos. 50-387
388



SUSQUEHANNA STEAM Electric STATION
UPGRADED METEROLOGICAL SYSTEM
ER100450 FILE 841-2
PLA-849

Dear Mr. Schwencer:

The following information is in response to the Staff's informal questions regarding the meterological system.

1. Based on the requirements of NUREG-0654 Appendix 2 and proposed Revision 1 to Regulatory Guide 1.23, the attached diagram outlines the upgraded meterological system using the existing meterological tower. Except for the addition of a tipping-bucket rain gauge, all the instrumentation on the primary tower will be as described in the FSAR. In addition, a backup 10 meter pole will be provided (the location is being evaluated) with sufficient instrumentation to measure wind speed, wind direction and sigma θ . These parameters will be available in the control room on strip charts and the TSC and EOF through the plant process computer.
2. Dual source power supplies will be provided to both the primary and backup towers. A two-hour uninterruptible power supply will be provided for the primary tower.
3. The emergency off-site dose projection for airborne release from Susquehanna will utilize a gaussian dose projection model. This Class A model will include fixed terrain correction factors as determined by our meterologist, and four stability classes.
4. Remote interrogation capability for meterological data and dose projection results will be provided via the Emergency Response Computer System which will be functional by July, 1984. Prior to that time, this data will be available for verbal transmittal to NRC.

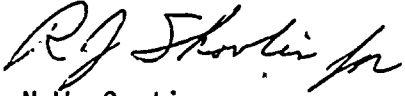
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Mr. A. Schwencer
June 17, 1981
Page two

The FSAR will be revised in mid-September to include the functional description of the upgraded meteorological system. The Emergency Plan will be revised at the same time to describe the radiological dose projection methods to be used at Susquehanna during emergencies.

Very truly yours,

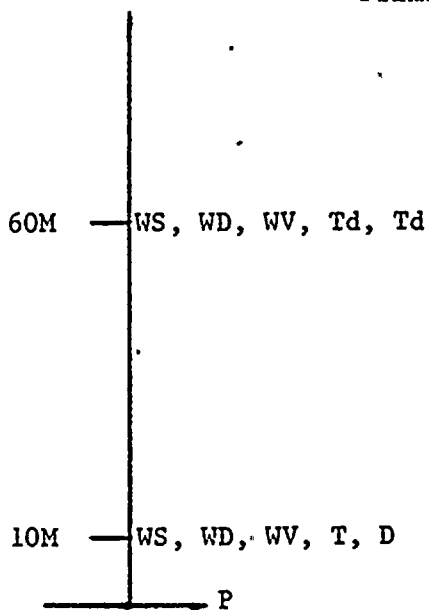


N.W. Curtis
Vice President-Engineering and Construction-Nuclear

cc: R.M. Stark

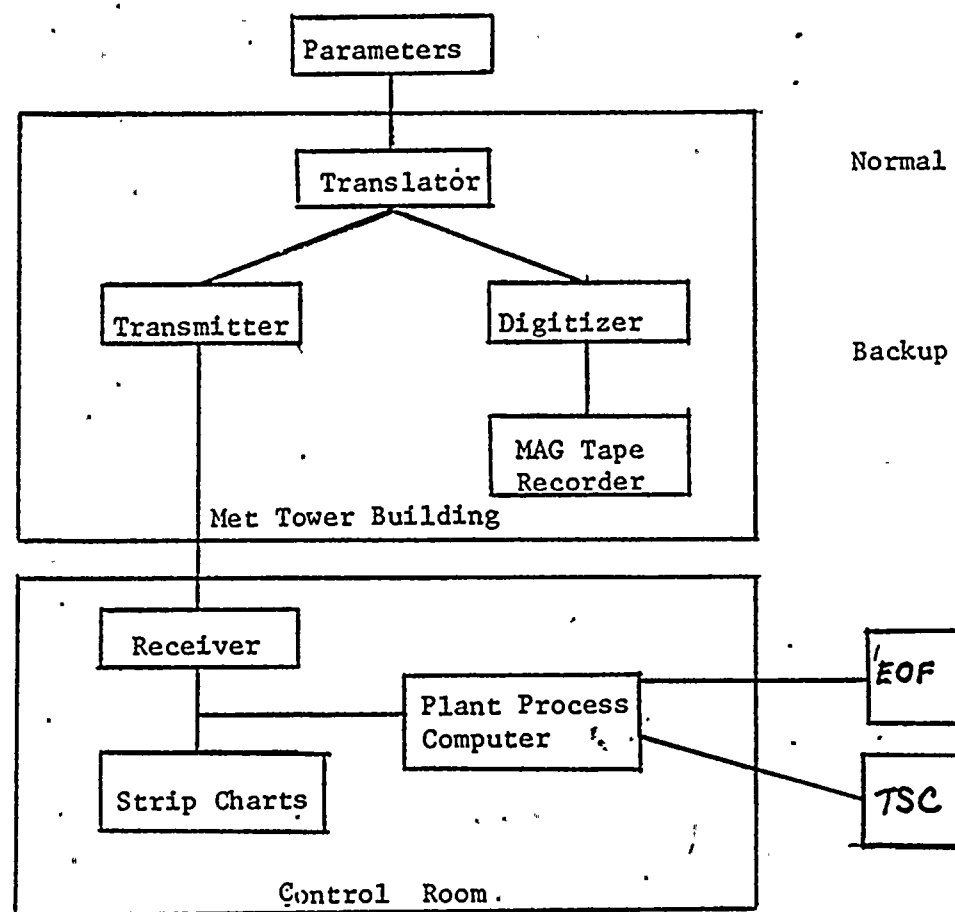
Upgraded Meteorological System

Primary Tower



Instrument Key

- WS - Wind Speed
- WD - Wind Direction
- WV - Wind Variability
- T - Ambient Temperature
- Td - Temperature Difference
- D - Dewpoint
- P - Precipitation



Power Supply

Normal - dual source supply, fed through an auto-transfer switch. The supply to the auto-transfer switch is from the start-up buses.

Backup - UPS (instrumentation only)