

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8205120194 DOC. DATE: 82/05/07 NOTARIZED: NO DOCKET #
 FACIL: 50-305 Kewaunee Nuclear Power Plant, Wisconsin Public Service 05000305
 AUTH. NAME AUTHOR AFFILIATION
 MATHEWS, E. R. Wisconsin Public Service Corp.
 RECIP. NAME RECIPIENT AFFILIATION
 EISENHUT, D. G. Division of Licensing

SUBJECT: Forwards instrument specs re emergency preparedness -
 upgraded meteorological sys per NUREG-0737, Item III.A.2.

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 TITLE: Response to NUREG -0737/NUREG-0660 TMI Action Plan Rqmts (OL's)

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WISCONSIN PUBLIC SERVICE CORPORATION


P.O. Box 1200, Green Bay, Wisconsin 54305



May 7, 1982

Mr. Darrell G. Eisenhut, Director
 Division of Licensing
 U. S. Nuclear Regulatory Commission
 Washington, D. C. 20555

Dear Mr. Eisenhut:

Docket 50-305
 Operating License DPR-43
 Kewaunee Nuclear Power Plant
Emergency Preparedness - Upgraded Meteorological System
 NUREG-0737 Item III.A.2

- References: (1) Letter from E. R. Mathews to D. G. Eisenhut dated
 December 30, 1981
 (2) Letter from E. R. Mathews to D. G. Eisenhut dated
 November 17, 1981

In reference (1) we agreed to provide you with a description of the meteorological instrumentation being installed as part of the meteorological monitoring system upgrade. We have selected a vendor to supply the meteorological instrumentation and the instrument specifications are attached for your information.

The site location drawing transmitted by reference (2) will be revised to show a minor relocation of the primary (60 meter) tower and the location of the (10 meter) backup tower based upon final site evaluation. The movement of the primary tower is away from the containment structure which further reduces the possible effects of building wake.

A final system description will be prepared as the total design of the system progresses. The description and the revised tower location map will be sent to you for your information as they become available.

Mr. D. G. Eisenhut
May 7, 1982
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For your additional information, WPS will have in place the 10 meter backup tower to obtain data concurrent with the National Oceanic and Atmospheric Administration (NOAA) study planned for June 1982. A temporary instrument shed will be placed on site to gather data from this tower.

Very truly yours,

E. R. Mathews

E. R. Mathews, Senior Vice President
Power Supply and Engineering

jac

Attach.

cc - Mr. Robert Nelson, Sr. NRC Resident Inspector
RR #1, Box 999, Kewaunee, WI 54216
Mr. Jesse Pagliaro, Office of Insp & Enforcement
US NRC, Region III, Glen Ellyn, IL 60137
Mr. Clarence F. Riederer, State of Wisconsin
Public Service Commission, Madison, WI 53707

PSC - KEWAUNEE
INSTRUMENT SPECIFICATIONS

o Wind Direction System

Teledyne Geotech
Wind Direction Sensor 50.2C
Vane, Quick Two 53.2

Starting threshold = 0.41
m/sec (0.95mph) @10°
Damping ratio = 0.4 @ 10°

Distance Constant = 1.1m
(3.7ft)

Accuracy = ±2°

Processor MDL 21.21

Temperature Coefficient 0.03°
angle/°C, Linearity ± 0.1%
(phase to dc), Time constant =
50ms

o Wind Speed System

Teledyne Geotech
Wind Speed Sensor 50.1B

Threshold = 0.2 m/sec (0.6mph)
Distance constant = 1.5m (5ft)

Cup Assembly 52.1

Accuracy ± 0.15mph for WS
between 0.5 and 15mph
and ± 1% between 15 and 90mph

Wind Speed Processor Model
40.12C Range 0-50mph

Linearity ± 0.2%

Time Constant = 0.35 sec to 90%

Temperature Coefficient = 0.02%/
°C max.

o Recorder: Esterline Angus
Apeed Servo II. D104

Accuracy = ± 0.35% of voltage
or milliamp span

zero drift = 2uv/°C

o Temperature System

Teledyne Geotech
Platinum Temperature
Probe, Model T-200

Accuracy

Compensation provided in
Processor

Temperature Processor, Model 21.32
T range -40 to 110°F
(10m Backup)

± 0.1°C for all output ranges
Typical maximum error is ±
0.05°C for processor operating
temperature of 25°C ± 5°C

T/ Δ T Processor, Model 40.35
T range -40 to 110°F
 Δ T range -5 to 10°F
(60m Primary tower)

$\pm 0.05^\circ\text{C}$ for processor operating temperature of $25^\circ\text{C} \pm 5^\circ\text{C}$.
Maximum error is $\pm 0.1^\circ\text{C}$ for all output ranges, at operating temperatures outside $25 \pm 5^\circ\text{C}$ and between 0 and 50°C

o Dew Point

Cooled Mirror Dew Point System
Model DP - 100
Range - 40 to +110°F

$\pm 0.2^\circ\text{C}$

o Recorder: Esterline Angus
Speed Servo II Multipoint
D112

$\pm 0.35\%$ of voltage or milliamp span
zero drift = $2\text{uv}/\text{C}^\circ$