

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

MAY

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 AUTH. NAME AUTHOR AFFILIATION
 SORENSEN, G.C. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Provides step-by-step definition of how util will apply
 Section 5.4 of ANSI 13.10, "Std of Performance," to five
 listed effluent minitors, per 831202 request.

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EXTERNAL:	ACRS 41	6	6	BNL (AMDTS ONLY)		1	1
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10-10-68

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DATE	TIME	LOCATION	ACTIVITY	PERSONNEL	REMARKS
10/10/54	0800	WATERLOO	ARRIVAL	1	ARRIVED AT 0800
10/10/54	0830	WATERLOO	DEPARTURE	1	DEPARTED AT 0830
10/10/54	0900	WATERLOO	ARRIVAL	1	ARRIVED AT 0900
10/10/54	0930	WATERLOO	DEPARTURE	1	DEPARTED AT 0930
10/10/54	1000	WATERLOO	ARRIVAL	1	ARRIVED AT 1000
10/10/54	1030	WATERLOO	DEPARTURE	1	DEPARTED AT 1030
10/10/54	1100	WATERLOO	ARRIVAL	1	ARRIVED AT 1100
10/10/54	1130	WATERLOO	DEPARTURE	1	DEPARTED AT 1130
10/10/54	1200	WATERLOO	ARRIVAL	1	ARRIVED AT 1200
10/10/54	1230	WATERLOO	DEPARTURE	1	DEPARTED AT 1230
10/10/54	1300	WATERLOO	ARRIVAL	1	ARRIVED AT 1300
10/10/54	1330	WATERLOO	DEPARTURE	1	DEPARTED AT 1330
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10/10/54	2000	WATERLOO	ARRIVAL	1	ARRIVED AT 2000
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10/10/54	3330	WATERLOO	DEPARTURE	1	DEPARTED AT 3330
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10/10/54	3430	WATERLOO	DEPARTURE	1	DEPARTED AT 3430
10/10/54	3500	WATERLOO	ARRIVAL	1	ARRIVED AT 3500
10/10/54	3530	WATERLOO	DEPARTURE	1	DEPARTED AT 3530
10/10/54	3600	WATERLOO	ARRIVAL	1	

Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

December 8, 1983
G02-83-1128

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PDR ADCK 05000397
A PDR

Docket No. 50-397

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

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
DEFINITION OF APPLICABLE ANSI 13.10 CRITERIA

As requested during a telephone conversation on December 2, 1983, between Messrs. A. Toth, G. Yuhas, R. Auluck, C. Miller (NRC) and R. Graybeal, P. Powell, V. Shockley, and D. Kassakatis (SS), the Supply System has reviewed ANSI 13.10 and is defining, in this letter, Sections of ANSI 13.10 that will be applied to our five effluent monitors. The five monitors identified as effluent monitors are: REA-RE-19 - Reactor Building Ventilation Exhaust System, TEA-RE-13 - Turbine Building Ventilation Exhaust System, WEA-RE-14 - Radwaste Building Ventilation Exhaust System, FDR-RE-6 - Radwaste Effluent (Liquid) and TSW-RE-5 - Plant Service Water. Included as effluent monitors are REA-RE-19A, TEA-RE-13A and WEA-RE-14A, the mid-range gaseous effluent monitor. The REA LOCA monitors are excluded from this effluent standard.

As ANSI 13.10 states in Section 2 "Scope", this is a standard to be used for selection of monitoring instruments, this standard was not required to be used for selection of monitoring instrumentation at WNP-2. As the Supply System is not committed to this standard in the WNP-2 FSAR, only the Section 5.4 "Standards of Performance" will be addressed. The following is a step by step definition of how WNP-2 will apply Section 5.4 of ANSI 13.10.

5.4.1 Detectors were selected for WNP-2 with the capability to detect mixtures of radionuclides most commonly found in the liquid and gaseous effluents streams.

5.4.1.1 The minimum level of detectability (MDL) for gaseous
and 5.4.1.2 streams of WNP-2 as monitors are now installed will range
between 1 to 3×10^{-6} $\mu\text{Ci}/\text{m}^3$. The MDL for liquid streams as
monitors are now installed is 1 to 4×10^{-6} $\mu\text{Ci}/\text{m}^3$. These
minimum detection levels will be verified during calibration
and are dependent on background levels.

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U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D.C.

A. Schwencer

Page Two

December 8, 1983

DEFINITION OF APPLICABLE ANSI 13.10 CRITERIA

5.4.2 The WNP-2 instrumentation dynamic range is at least 10^4 times MDL with instrument readouts in counts per minute (CPM). The CPM can be converted to $\mu\text{Ci}/\text{m}^2$ for selected isotopes by using the calibration curves.

5.4.3 The Supply System presently does not consider it difficult to meet these sensitivity requirements. However, more time is required to determine the sensitivity of the WNP-2 instruments. This will be evaluated during the enhanced calibration program and by 7/1/84.

5.4.4 The instrument error of $\pm 20\%$ will not be exceeded for the range of calibration determined by our procedures. Solid sources are used for higher range effluent monitor calibrations.

In determining the error at WNP-2, R_r is defined as the readout meter or recorder and R_t is the scaler or current output. For upper ranges of the log rate meter, the error may be greater than $\pm 20\%$. However, this is not the level planned as being our normal operating range readings.

5.4.5 WNP-2 meets or exceeds the $\pm 10\%$ precision for our solid transfer sources.

5.4.6 The Supply System will evaluate the response times during the enhanced calibration program when the RC time constants are fully determined. This is to be completed by 7/1/84.

5.4.7 The Physical, Mechanical, and Electrical requirements do not pertain to the WNP-2 instrumentation. However, in reviewing the application of the WNP-2 instruments we have concluded that our instruments will perform their perscribed functions.

5.4.8 The WNP-2 control room radiation monitoring instrumentation racks are not designed to this standard and are not equipped with external alarm adjustments. However, capabilities are provided to set alarm setpoints to meet our Technical Specification criteria.

5.4.9 The Supply System will evaluate the WNP-2 circuits for meter pegging devices.

A. Schwencer
Page Three

DEFINITION OF APPLICABLE ANSI 13.10 CRITERIA

- 5.4.10 a) The WNP-2 secondary or transfer source are of sufficient size to assure geometry repeatabilities. b) The DOP determination of line loss of particulates will be omitted by exception. c) Remote operated check sources are provided in most systems but not all. The systems without remote check sources are configured to allow periodic checks with a known strength external source. d) The Supply System takes exception to the use of the calibrated electrical signal; however, this will be taken into consideration during the enhanced calibration program to be completed by 7/1/84.

Should you have any further questions, please contact Mr. P. L. Powell, Manager, WNP-2 Licensing.

Very truly yours,



G. C. Sorensen, Manager
Regulatory Programs

VES/tmh

cc: R Auluck - NRC
WS Chin - BPA
AD Toth - NRC Site

