

UNION ELECTRIC COMPANY
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ST. LOUIS, MISSOURI
July 1, 1981

JOHN K. BRYAN
VICE PRESIDENT

MAILING ADDRESS:
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Mr. Harold R. Denton
Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

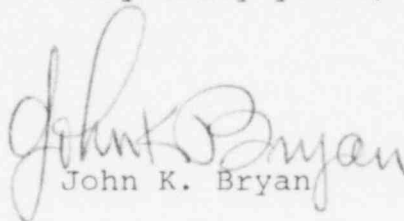
Dear Mr. Denton:

ULNRC-459

DOCKET NUMBERS 50-483 AND 50-486
CALLAWAY PLANT, UNITS 1 & 2
FINAL SAFETY ANALYSIS REPORT

At the request of Mr. Sy Block of your offices, attached are revised FSAR Tables 12.5-1 and 12.5-2. This information will be formally incorporated into the Callaway Plant FSAR in the next revision. This information is hereby incorporated into the Callaway Application.

Very truly yours,


John K. Bryan

NGS/jmn

Attachment



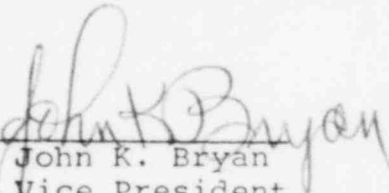
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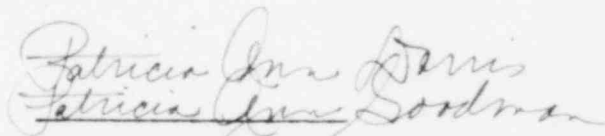
STATE OF MISSOURI)
) S S
CITY OF ST. LOUIS)

John K. Bryan, of lawful age, being first duly sworn upon oath says that he is Vice President-Nuclear and an officer of Union Electric Company; that he has read the foregoing document and knows the content thereof; that he has executed the same for and on behalf of said company with full power and authority to do so; and that the facts therein stated are true and correct to the best of his knowledge, information and belief.

By


John K. Bryan
Vice President
Nuclear

SUBSCRIBED and sworn to before me this 1st day of July, 1981


Patricia Ann Dennis

PATRICIA ANN DENNIS
NOTARY PUBLIC, STATE OF MISSOURI
MY COMMISSION EXPIRES 1/31/82
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bcc: 3456-0021.6

3456-0547.4 w/a

Nuclear Date

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D. W. Capone

A. C. Passwater

W. H. Zvanut

R. P. Wendling

N. G. Slaten w/a

V. M. Weber

D. E. Shafer

TABLE 12.5-1
HEALTH PHYSICS LABORATORY EQUIPMENT

<u>INSTRUMENT</u>	<u>RADIATION DETECTED</u>	<u>DETECTOR</u>	<u>NUMBER</u>	<u>LOCATION</u>	<u>REMARKS</u>
Gamma Spectroscopy System	Gamma	HPGe	3	Counting Room, Radwaste Bldg. Lab, and EOF	Used primarily for effluent and environmental samples.
Gas Propor- tional Counter	Alpha, Beta, Gamma	-	2	Counting Room	Used for counting smears and radio chemistry samples.
Liquid Scintillation	Beta	-	1	Counting Lab	Tritium determination
TLD Reader 	Beta, Gamma	-	2	Health Physics Office and Service Bldg.	Personnel Dosimetry.
Scalers 	Alpha, Beta, Gamma	Alpha probe, GM Tube	5	Counting Room or Hot Lab	High Level Samples.
Whole Body Counter	Gamma	NaI(Ti)	1	Whole Body Count Room	Personnel Invivo Counting; Multidetectors

Note: Sensitivities are not defined at this time. Equipment from various manufacturers will be studied to ensure that the equipment when purchased will be sufficiently sensitive to perform the tasks for which it was intended. Instruments will be selected to satisfy measurement and reporting requirements in effect at the time the equipment is ordered.

TABLE 12.5-2
PORTABLE HEALTH PHYSICS EQUIPMENT

<u>INSTRUMENT</u>	<u>RADIATION</u>	<u>RANGE</u>	<u>ACCURACY</u>	<u>NUMBER</u>	<u>LOCATION</u>	<u>REMARKS</u>
GM Survey Meter	Beta, Gamma	0-500,000CPM	<u>+10%</u> FS	10	Health Physics Office	End Window. Side Window or Pancake Probe.
GM Survey Meter	Beta, Gamma	0-2000 mR/hr	<u>+10%</u> FS	25	Health Physics Office	Side Window Probe
GM Survey Meter	Gamma	0-1000R/hr	<u>+10%</u> FS	4	Health Physics Office	With extendable probe.
Survey Meter	Beta, Gamma	0-50R/hr	<u>+10%</u> FS	5	Health Physics Office	Ionization Chamber
Survey Meter	Gamma	0-1000 R/hr	<u>+ 10%</u> FS	10	Health Physics Office	Ionization Chamber
Neutron Meter	Thermal through fast neutrons	0-5REM/hr	<u>+10%</u> FS	4	Health Physics Office	BF tube inside a moderator ball for neutrons to 10 MEV.
Scintillation Counter	Alpha	0-500,000CPM	<u>+10%</u> FS	5	Health Physics Office	Alpha Scintillation with a mylar window.
Portal Monitor	Beta, Gamma	Variable	--	6	Personnel exits at security house and controlled access.	Equipped with audible alarm.
Personnel Monitor	Beta, Gamma	--	--	20	Health Physics Office and Control Room	Contamination Frisker with Audible Alarm

TABLE 12.5-2 (Sheet 2)
PORTABLE HEALTH PHYSICS EQUIPMENT

<u>INSTRUMENT</u>	<u>RADIATION</u>	<u>RANGE</u>	<u>ACCURACY</u>	<u>NUMBER</u>	<u>LOCATION</u>	<u>REMARKS</u>
Pocket Dosimeter	Gamma	0-200mR	<u>+15% FS</u>	500	Health Physics Office	Integrating, Direct reading.
Pocket Dosimeter	Gamma	0-5R	<u>+15% FS</u>	100	Health Physics Office	Integrating, Direct reading.
Pocket Dosimeters Chargers	-	-	-	8	Health Physics Office	Charging Pocket Posimeters
Condenser R-Meter	Gamma	0-10R	<u>+ 10-20%</u>	1	Health Physics Office	Direct Exposure Measurements
Portable Area Monitor	Beta, Gamma and Neutron	0-200 mR/hr 1-10k mR/hr (neutron)	<u>+ 10%</u>	5	Plant Work Location	Temporary Area Radiation Monitoring
Gamma Survey Meter	Gamma	0-500k CPM	<u>+ 10%</u>	2	Health Physics Office	Sensitive Gamma Detection