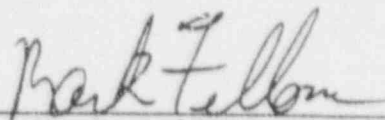


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EASTERN TECHNOLOGIES, INC.
REQUIREMENTS AND PROCEDURES
FOR
BIOASSAYS

APPROVED BY:



Mark Fellows
Vice President

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PDR FOIA
ROBERTS97-295 PDR

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I. Acceptable Bioassay Methods

1. Urinalysis.
2. Whole body gross activity analysis utilizing an alarm set point $\leq 5\%$ of ALI.
3. Whole body isotope specific analysis.

II. When Bioassay Is Required

1. Prior to issuing permanent dosimetry.
2. Upon termination of permanent dosimetry.
3. Annually
4. As required by special cases (e.g.: ingestion, inhalation, or absorption of radioactive material).
5. As required by HP or RSO.

Note: 1. Visitors are exempt from bioassay

2. Documented whole body counts from other facilities may be utilized in lieu of bioassay performed by ETI.

III. When whole body Isotope Specific Analysis Is Required.

1. If urinalysis indicates $> 1\%$ ALI of any radioisotope of concern.
2. If whole body gross activity analysis indicates $> 5\%$ ALI.
3. Upon request by HP or the RSO.

Note: Documented whole body counts from other facilities may be utilized in lieu of whole body count performed by ETI.

~~11/23/94~~ 11/23/94

RESUME

Name: Mark S. Fellows

Present Position: Vice-President - Eastern Technologies, Inc.

- Education:
- (A) Radiation Safety Practices, Respiratory Protection Training and Re-Training at over eight (8) different nuclear power facilities.
 - *Continuing training. Year to date totals exceed 500 hours.
 - (B) Health Physics Instruments and Air Monitors, Eberline Instrument Company.
 - *Consisted of 40 hours of classroom study and practical application.
 - (C) Advanced Low Level Radioactive Waste Transportation and Disposal, Chem-Nuclear Systems, Inc.
 - *Consisted of over 40 hours of classroom study.
 - (D) Radioactive Waste Packaging, Transportation, and Disposal, Chem-Nuclear Systems, Inc.
 - *Consisted of 40 hours of classroom study.
 - (E) Bachelor of Science, Business Administration Management, Auburn University

WORK EXPERIENCE IN NUCLEAR INDUSTRIES

ETI

Vice-President Ashford, Al.

Job Description: Involved in design and construction of updated generations of ETI Mobile Water Wash Protective Clothing/Respirator Decontamination Units to include introduction and refinement of aqueous borne ozone protective clothing cleaning systems and zero (0) release capability for mobile water wash systems. Supervisor over all mobile operations October 1987 to present. Involved in design and construction of ETI's Ashford Processing Center for off-site processing of

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radioactively contaminated garments. Facility encompasses an area of 13,000 ft² and has a potential processing capability in excess of 36,000 pounds per twenty-four (24) hours. Personally designed all air filtering equipment used for cleaning plant exhaust air (i.e.: dryer exhaust, negative pressure systems). Personally designed and installed all plant waste effluent monitoring systems (i.e.: air, water). Personally wrote all procedures for operation of off-site decontamination facility including but not limited to: radiation protection program; contamination monitoring and control; activity determination for air samples, water samples and smears; posting, monitoring and control of RLA; operation and calibration of Eberline RM-20 for use in Automated Radioactive Laundry Monitor; operation and calibration of Eberline RM-14S for use in Automated Radioactive Laundry Monitor; operation and calibration of Eberline RM-20 for use with GM Probe; operation and calibration of Eberline RM-14S for use with GM Probe; operation and calibration of RM-14SA/Nia waste water effluent monitor; operation and calibration of Eberline AMS-3A alarming air monitor; operation and calibration of the Nucleus Scaler Timer; Radiation Worker Training/Retraining; laundry process control Ashford Service Center. Responsible for all radiation safety (H.P.) activities within the Ashford Service Center. Also responsible for all radioactive material shipments entering and leaving facility. Continually involved in the management of Eastern Technologies, Inc. from its inception to present.

Dates Worked: Feb. 1988 - Present

Vice-President Florida Power & Light, St.
Lucie Nuclear Power Plant

Job Description: Site Supervisor for Mobile
Water Wash Protective Clothing
Decontamination Unit and Mobile Automated
Radioactive Laundry Monitor for unit II
refueling outage; independent use of

radiation detection equipment to ensure dose rates on bags read as marked (e.g.: Ludlum L 7, Eberline R02); responsible for the handling of laundry contaminated with mixed fission products and corrosive products of up to 1 Ci; responsible for the handling of compatible materials.

Dates Worked: Oct 1987 - Jan 1988

Vice-President Ashford, Al.

Job Description: Involved in design and construction of Mobile Water Wash Protective Clothing/Respirator Decontamination Unit and Mobile Automated Radioactive Laundry Monitor.

Dates Worked: July 1987 - Sept 1987

Vice-President Ashford, Al.

Job Description: Over see engineering and construction of Automated Radioactive Laundry Monitor 001 being designed and built for Alabama Power Company.

Dates Worked: June 1987 - July 1987

Vice-President Ashford, Al.

Job Description: Formation of ETI to provide on-site services for nuclear power stations.

INS

Site Service Florida Power & Light, St
Foreman Lucie Nuclear Plant

Job Description: Decon and certification of respiratory protection devices; operate and maintain decon equipment independent use of radiation detection equipment to ensure dose rates on bags read as marked (e.g.: Ludlum L 7, Eberline R02); responsible for the handling of compatible materials; responsible for taking and reading smear surveys of the work areas and equipment.

Dates Worked: Apr 1986 - June 1986

Site Service
Foreman

Alabama Power Company,
Farley Nuclear Plant

Job Description: Protective garment decon;
decon and certification of respiratory
protective devices; operate and maintain
decon equipment; source control and
handling. Responsible for the handling of
compatible materials; responsible for the
handling of laundry contaminated with mixed
fission products and corrosive products in
quantities up to 1 Ci.

Dates Worked: Dec 1985 - Dec 1986