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INTERSTATE NUCLEAR SERVICES

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Columbia, SC 29250-0164  
(803) 771-4600

October 29, 1987

U.S. NRC Region 1  
Attn: Mr. Frank Davis  
631 Park Avenue  
King of Prussia, PA 19406

Re: Docket (Control) Nos. 107-446 & 107-888

Dear Mr. Davis,

Subject: Amendment of License Nos. 37/23341/01 and  
20/03529/01

Enclosed are two copies of replacement pages further updating our applications dated 10/1/87 and 6/15/87 respectively updating the two referenced RAM licenses. Changes have been made in accordance with our telephone conversation of 10/27/87. As we are no longer operating the experimental PVRs system and are not applying under "waste processor" category, hopefully our paid fee of \$1400.00 should be reduced to \$340.00 for amendment of these two nuclear laundry licenses.

*Handwritten notes:*  
40 8/1/87  
10/27/87  
10/29/87  
10/29/87  
10/29/87

Please make the following substitutions using enclosed pages:

In License No. 37/23341/01:

- 1) Substitute page 1 - 3 dated 10/29/87 for pg. 1 - 3 dated 6/15/87 corrected table of contents, possession limits, personnel.
- 2) Substitute page B1 and B2 dated 10/29/87 for page B1 and B2 dated 6/15/87 ;eliminates PVRs
- 3) Substitute page B4 - B6 dated 10/29/87 for pages B4 - B6 dated 6/15/87; updates drawings.
- 4) Substitute pages D13 - D14 dated 10/29/87 for pages D13-D14 dated 6/15/87; corrects typo, adds "at least annually" to HP audits.
- 5) Substitute pages E5 - E17 dated 10/29/87 for pages E5 - E25 dated 6/15/87 - updates personnel resumes.

*Handwritten:* 8902234396 29 ppc  
"OFFICIAL RECORD COPY"

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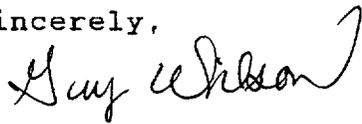
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02 NOV 1987

In License No. 20/03529/01:

- 1) Substitute pages 1 - 3 dated 10/29/87 for pages 1 - 3 dated 10/1/87 - changes possession limits, updates table of contents.
- 2) Substitute page D14 dated 10/29/87 for D14 10/1/87 - adds "at least annually".

Thank you for your cooperation in keeping our RAM licenses current.

Sincerely,



Guy Wilson  
Manager, Corp.  
Health Physics

Date: 10/29/87

License: 37/23341/01

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Date: 10/29/87

License: 37/23341/01

ITEM 5

a, b, and c

<u>a. Radioactive Material</u>	<u>b. Physical Form</u>	<u>c. Possession Limit</u>
5.1 Any radioactive material, Atomic number 1 - 96	Contaminated garments and other launderable items, equipment, machinery, protective devices, and associated decontamination wastes.	Not to exceed the possession limits specified in NUREG 0767
5.2 Any radioactive material	Miscellaneous Radiation Standards (SRMs) from the National Bureau of Standards or other suppliers	Total activity of all SRMs not to exceed 5 millicuries or 1 mCi/Source.

ITEM 6

Purpose for which licensed materials shall be used

- a. The radioactive materials listed in 5.1 are in the form of contaminated garments and other launderable reusable items, equipment, machinery, protective devices, and resulting decontamination wastes. Operations include the transportation of contaminated articles, decontamination by laundry, dry cleaning, or other industrial cleaning processes, and testing and monitoring of items.
- b. Radioactive materials listed in 5.2 are to be used for instrument calibration.

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ITEM 7

Individuals Responsible  
for Radiation Safety Program

See Appendix E for Training and Responsibilities of the individuals listed.

Randy L. Thomas, Royersford Plant Mgr./RSO  
John R. Reed, Assistant Plant Manager/Alternate RSO  
George J. Bakevich, General Manager  
Guy R. Wilson, Manager Corporate Health Physics  
William C. Moser, Operations Manager  
William R. Roschewski, Operations Manager  
Leslie B. Case, Corp. Engineer  
Susan L. Fanelli, Health Physicist  
Alfred A. Richard, Alternate Plant Manager  
Robert L. Zimmerman, Health Physics Consultant  
Victor M. Crusselle, Radiation Specialist  
Steven M. Eno, Assistant Plant Manager  
Phillip A. Rumian, Alternate Plant Manager

Users at the plant include any individuals above, when present. Alternate or assistant Plant Managers or Operations Managers can act as RSO when present.

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APPENDIX B

## FACILITIES AND EQUIPMENT

The INS Corp, North Third Avenue, Royersford, PA, 19468, is a division of Unifirst Corp., Woburn, MA.

The laundry is established to decontaminate clothing and other launderable items received from users of special nuclear, source, and by-product material. The material will be in the form of contamination from various customers.

The laundry is located on the west side of North Third Ave., Royersford, PA. The building is a one and a half story concrete and steel structure on approximately 12 acres of land. Figure B-1 shows the plant and surrounding property. The nuclear portion of the laundry building contains approximately 21,000 square feet of floor space.

The equipment employed in the decontamination laundry includes, but is not necessarily limited to, washer extractors, dryers, a sorting table, radioactive liquid waste processing system, spray down lint collectors, a waste compactor with tent enclosure and HEPA air unit.

See Figure B-2 for a typical layout of the nuclear laundry portion of the facility.

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A. Work-flow of Radioactive Materials

1. Launderable Items for Reuse

Figure B-3 shows the general areas in which radioactive material is handled. Incoming contaminated apparel items and other reusable items are off-loaded from the truck. This material is taken directly into the plant where articles may be stored prior to washing. Containers are surveyed and segregated according to levels of radiation. Any container reading over 50 mr/hr on contact shall be returned to the customer unopened. The containers are moved into the sorting area where they are opened, sorted, and loaded into washers. All sorting of unwashed items takes place beneath a ventilated hood designed to minimize the possibility of inhalation of particulate material. A continuous air flow is maintained into the hood, which draws particulates away from the breathing zone. Persons handling items having loose contamination are required to wear protective clothing as outlined in a Protective Clothing Chart, approved by the Plant Manager/RSO. Figure D-1 provides an example of the content of a chart. Launderable reusable items are washed, removed from the washers, and placed in the dryers. Following drying, garments are transferred to the monitoring/ folding room to be monitored, folded, sorted and packaged, as required by the customer. Containers are surveyed for fixed and loose contamination prior to being loaded on the truck for shipment back to a customer. Packaging and shipments are performed in compliance with DOT regulations.

B. Controlled Areas

The areas within the walls of the facility and fence are considered the Restricted Areas. These areas are subdivided as follows:

1. Non-contaminated areas - areas in the plant where loose contamination is not present and areas outside the plant but within the facility bounds. This includes the receiving area, the office and lavatory, and the clean equipment/chemical storage area.

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Figure B-2

Typical Equipment Layout

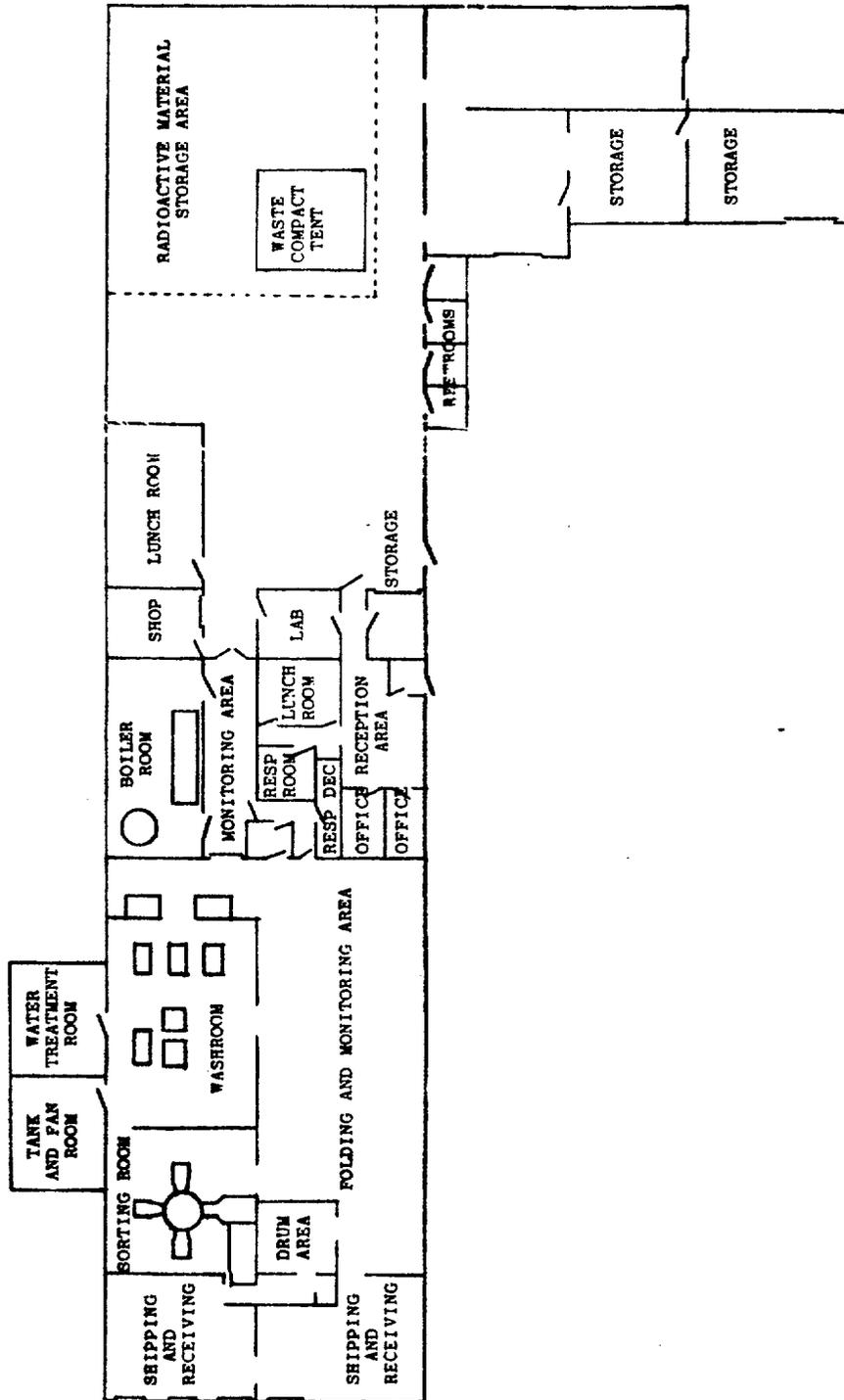
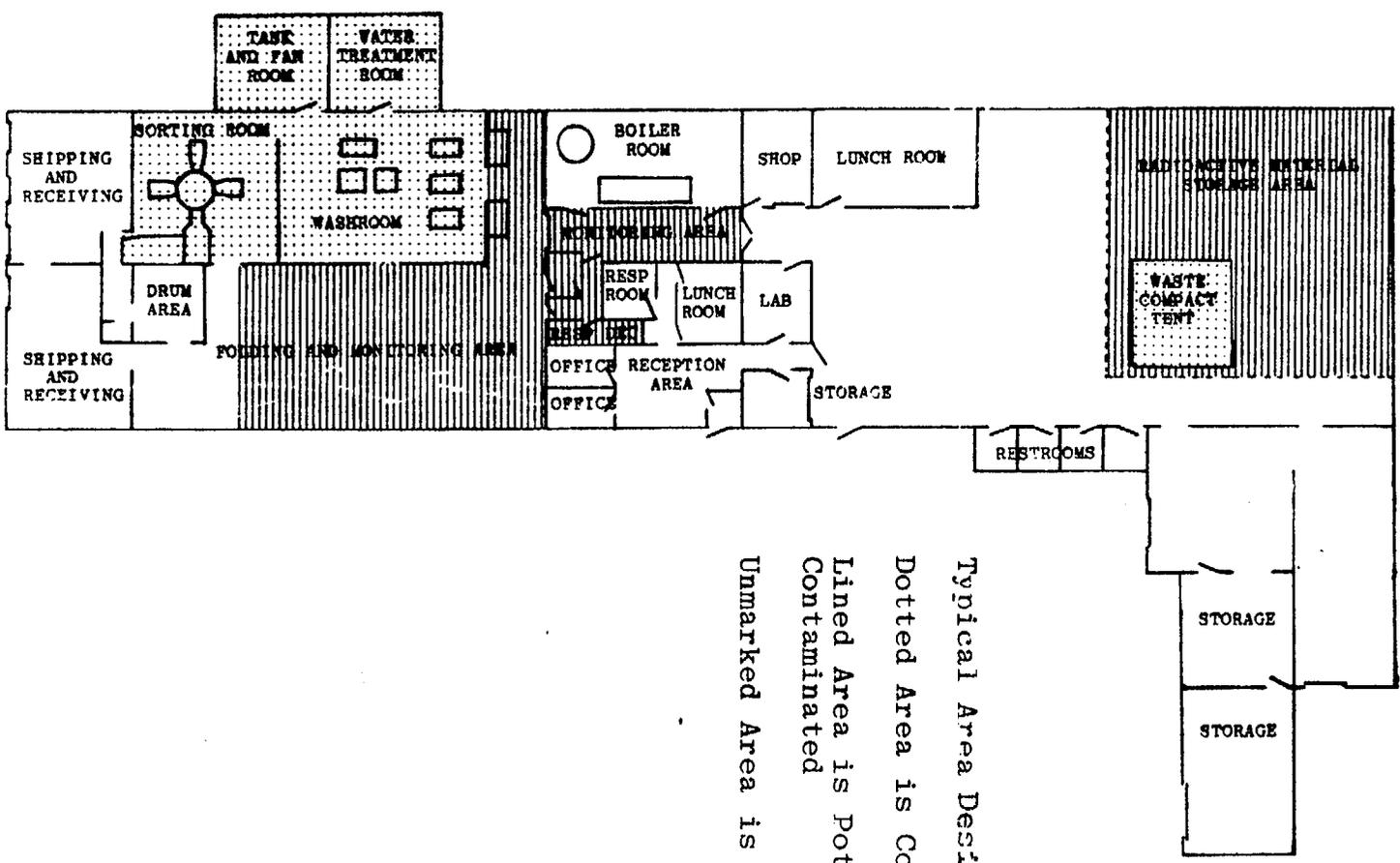


Figure B-3



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2. Potentially contaminated areas - areas where laundered items are handled. This is the folding/monitoring area and the hot storage area.
3. Contaminated areas - areas where unlaundered items are handled. This is the apparel sorting area and the washer/dryer area.

These areas shall also be posted as appropriate in accordance with 10CFR20.203.

#### C. Radiation Detection

The following tabulation specifies the minimum instruments and equipment available when the facility is in operation. Similar instruments by other manufacturers may be substituted for those listed below. Whenever similar instruments of different manufacturer are substituted, the correct technical manual will be used for calibration, or the INSC Corporate Engineer will be consulted for instruction in the appropriate calibration method.

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#### I. Plant Security

The area within the fence is a restricted area. As such, access is controlled for security and radiation protection purposes. Gates are to remain locked at all times other than when in actual use. Any employee opening a gate must either lock the gate immediately upon exit or if unlocked, maintain direct surveillance. Visitors are permitted into the restricted area only for official business. All visitors must be escorted until they have demonstrated an understanding of company procedures. If a visitor is to enter a radiation or contamination control area, the health physics technician or RSO must assign a dosimeter and assure that the visitor is properly logged in and out. To prevent the unauthorized use of radioactive material, radioactive sources used for instrument calibration are maintained by the RSO and are kept in a specific area of the laboratory when not in use. The truck storage area for trucks containing radioactive material shall be locked at all times, except when loading and unloading.

#### J. Transportation of Radioactive Materials

The transportation of radioactive materials shall be in compliance with U.S. Department of Transportation Regulations 49 CFR 390-399 with respect to drivers' qualifications, hours of operations and carriers' requirements and 49 CFR 170-189 with respect to shippers' requirements and the proper packaging and shipping of radioactive materials. Additional requirements may be imposed by affected states, particularly in the shipment of radioactive wastes to licensed burial facilities. All employees associated with the transportation of radioactive materials are given classroom instruction in the regulatory requirements of their duties. In addition to training and experience in handling radioactive materials on site, all drivers who transport hazardous materials shipments are required to complete DOT certification requirements.

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K. Corporate Radiation Protection Program

1. Management Organization

The INS Corporate Health Physics staff provides guidance to all INS facilities in the radiation protection area. The Manager of Corporate Health Physics is independent of Operation and Sales and reports directly to the General Manager, highest level official in INS Corporation. The Manager of Corporate Health Physics is responsible for reporting and providing consultation to the General Manager on all health and safety issues. Figure D-3 schematically depicts the upper management organization of INS Corporation. Resumes of the individuals referenced in this section are all provided in Appendix E of this license.

2. Corporate Audits

Corporate audits of INS facilities are performed by the Manager of Corporate Health Physics, Health Physicist, Radiation Specialist or an independent health physics consultant at least annually. These audits include an evaluation of the radiation protection program for compliance with regulatory, license, and insurer commitments, as well as overall safety conditions at the plant. Any radiation worker is free to communicate directly with Corporate Health Physics personnel at any time and direct interviews are sometimes held during unannounced audits. When audits are provided by health physics consultants, a capable individual is selected to perform the radiation safety program evaluation without regard to format or precedence of INS Corporate auditors. In this manner, total independence is insured.

3. Engineering

The Corporate Engineer provides design support to Operations to insure minimization of employee exposure due to design and operational procedures. The Corporate Engineer also specifies and/or approves all radiation detection equipment.

Royersford Plt.Mgr./RSO Randy L. Thomas

EDUCATION: Attended Aeronautics School, San Bernardino Valley College

Short Courses: Occupational and Environmental Radiation Protection course, Harvard University

EXPERIENCE: INS Corp (9/86-pres.) Plant Manager. Supervised personnel & daily operations. Performed daily health physics measurements & responsible for personnel safety during operations, including radiation safety. Responsible for HP record generation and maintenance.

INS Corp (5/86-9/86) Assistant Plant Manager. Assistant Radiation Safety Officer. Supervises daily operations. Manages personnel. Performs daily Health Physics & measurements. Completes & maintains HP records. Responsible for personnel safety during operations, including radiation safety.

Paul Monroe Hydraulics (10/81-3/86) Manufacturing Supervisor. Responsible for conformance to 10 CFR regulations and QA program. Tested plant equipment and instrumentation throughout the plant.

Parker Hannifin Corp. (2/81-10/81) Senior Engineering Technician. Performed prototype assembly and qualification testing on flight control units.

Paul Monroe Hydraulics, Inc. (1/80-2/81) Engineering test technician. Performed engineering tests on valves, snubbers, and fluids. Responsible for ASME code item inventory, overhaul and testing of equipment.

United States Air Force (3/74-4/79) Supervisor. Responsible for flight-line repair of all hydraulic/pneumatic systems, including flight control and landing gear. Interfaced with vendors and maintenance personnel.

Asst. Pl. Mgr./Alt. RSO: John R. Reed

EDUCATION: Navy Nuclear Power School.

Short Courses: Radiation Protection Training, Radiation Safety Associates (20 hrs), INS RSO Training Program (40 hrs., GA Johnstone) Gamma Spectroscopy, Canberra, Inc.(40 hrs.)

EXPERIENCE:INS Corp.(85-present)-Plant Manager/Radiation Safety Officer at Honolulu Hawaii plant. Supervises daily operations. Manages personnel. Performs daily Health Physics & measurements. Completes & maintains HP records. Responsible for personnel safety during operations, including radiation safety.

INS Corp.(84-85)-Assistant Plant Manager/Assistant Radiation Safety Officer, Royersford, PA. Supervises daily operations. Manages personnel. Performs daily Health Physics & measurements. Completes & maintains HP records. Responsible for personnel safety during operations, including radiation safety.

General Mgr: George J. Bakevich

**EDUCATION:** B.S. Mathematics major, Nuclear Engineering minor.  
Worcester Polytechnic Institute  
M.S. Nuclear Engineering major, Univ. of Utah

Thesis-"Neutron Radiography with Californium-252 & a Subcritical Neutron Multiplier" at National Reactor Testing Station in Idaho under AEC Fellowship.

**EMPLOYMENT:** INS Corp. (80-present)-General Manager for 11 nuclear decontamination facilities including profit & loss responsibility, growth of business, construction & planning of new facilities. Directly supervises managers of Op. & Corp. HP. Enforces reg. & HP requirements suggested by the Manager of Corp. Health Physics.

Combustion Engineering, Inc., (11/79-5/80)-Manager, Nuclear Licensing, Safety & Accountability, total resp for compliance with NRC, DOT, & OSHA reg. at CE's uranium fuel fab. facility. Responsible for all licensing submittals & management of: Nuclear criticality safety, HP, industrial safety, RAM trans. & accountability, emergency preparedness. Responsible for audits of CE's oxide conversion facility in Hematite. Missouri & R & D Labs in Windsor, CT Member of Nuclear Speakers Service.

Nuclear Licensing & Safety Supervisor (2/77-11/79)-Resp. for all aspects of licensing at fuel fab. facility, including criticality safety analysis. Responsible for HP monitoring prog. & Industrial Safety prog. to assure compliance with reg; audit of manufacturing ops. & supervision of HP personnel.

Idaho National Engineering Lab., Idaho Falls, Idaho, (74-77)-Criticality Safety Engineer/HP. Responsible for criticality safety evaluations (including computer analysis with KENO-IV, DOT, etc.) for unirradiated & spent fuel storage, fuel transport casks, & nuclear waste burial.

Health Physics experience at several large test reactors, including monitoring of high radiation fields & fission product contamination control. Member of Qualifications Review Committee; Completed ERDA System Safety Training (Management oversight & Risk Tree).

AEC, (73-74)-Assistant Project Engineer. Responsible for appraisal & direction of contractor activities in areas of HP, Critical Facilities & dev. stages of the Light Water Breeder Reactor; procedure approval.

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Mgr. Corp HP:

Guy R. Wilson

EDUCATION: B.S. Mathematics major, Louisiana State University  
M.S. Environmental Eng. Mississippi State University

Thesis: A Gamma Rad. Dose Model for Comparison of Normal Risk Between Alt. Routes for Highway Transportation of Radioactive Materials & Waste.

Graduate studies include env. radioactivity, radwaste treatment & disposal, surface & groundwater transport; chemical, physical & biotreatment design, geophysics.

Short Courses: BWR Systems for Engineers (5 weeks), BWR Systems (4 wks), Nuclear Power Plant Accident Assessment (1 wk), Rad Emergency Response Ops (2 wks), Rad materials transportation workshops & several minor seminars in HP.

EXPERIENCE: INS Corp. (11/86-present)-Manager, Corporate Health Physics-responsible for overall administration of radiation safety program for over 600 radiation workers. HP audits, procedure & design generation, review & approval; licensing of facilities; regulatory interface & direct supervision of corporate HP staff.

INS Corp. (2/86-11/86)-Senior Radiological Engineer. Resp. for ALARA design, const. management & operating procedure development for nuclear waste water processing systems for nation's largest fixed facility decon business. Resp. for reg compliance & HP audits at a fraction of INS facilities.

MS. Dept. of Health, Rad Health (rad control/-agreement state agency 7/83-2/86). Environmental Engineer/Branch Dir., Rad Waste & Trans. Reviewed proposed mods of tech specs governing operation of GGNS (BWR-6 design). Developed & instructed an HP course for dept. Technical advisor to SE LLW Compact Commission. Developed new state regs trans. of RAM.

MP&L Co. (3/82-4/83). Nuclear Licensing review of proposed mods to nuclear waste water processing sys. for GGNS. Software design & mods. for Nuclear Lic. mod. computer based tracking sys. for reg. compliance, tech specs, & licensee event reports. Dev. rad assess software used in emergency exercises for GGNS by MP&L.

(73-82) Design calc & survey management as consultant with several large design groups, spec in industrial & municipal wastewater treatment.

S.Ops.Mgr./Alt.RSO

William C. Moser

EDUCATION:

B.A. Furman University

J.D. University of South Carolina School of Law

Short Courses: HP training under R.L. Zimmerman, Certified Health Physicist & LB Case, RSO of Southern Space, Inc. Radioactive Waste Packaging, Transportation & Disposal, (27 hrs.-Chem Nuclear Systems).

EXPERIENCE:

INS Corp.(85-present)-Southern Operations Manager. Responsible for operations of INS Southern division, directly supervises all plant managers in region. Generates & approves procedures for operation.

Southern Space, Inc.(84-85)-Chief Executive Officer. Overall responsibility for administration of nuclear decontamination business with sales exceeding five million annually.

Southern Space, Inc.(81-84)-Regulatory Compliance Officer. Responsible for interpretation & enforcement of regulations within the corporation, federal, state, and local.

State of South Carolina, Water Resources Commission (74 to 81). Attorney for state.

N.Ops.Mgr./Alt.RSO William R. Roschewski

**EDUCATION:** Navy Nuclear Power School.

Short Courses: RSO training program at INS, (40 hrs. under GJ Bakevich).

**EXPERIENCE:** INS Corp.(85-present)-Operations Manager for Northern division. Generates & approves procedures for operations. Directly supervises all plant managers of region.

INS Corp.(82-84)-Pleasanton California Plant Manager/RSO. Responsible for management of employees, daily operations, & personnel safety including radiation safety for plant. Performed health physics measurements & activities essential to operation of nuclear laundry. Instrument calibrations. Radwaste reduction.

INS Corp.(80-82)-Bremerton, WA Plant Manager/RSO. Responsible for management of employees, daily health physics measurements, & radiation safety at plant.

US Navy (74-80), NPTU Idaho. Participated in S1W prototype maintenance, including resin discharge, main coolant pump replacement, radiography, flux wire irradiation, controlled pure water system installation. Instructor reactor physics & safety, chemistry/metallurgy.

US Navy (74-76)-Mechanical Operator. Qualified as Engine room supervisor. 15 Mo. refueling overhaul at Mare Island shipyard, watch operations & HP duties.

Corp.Eng./Alt.RSO

Leslie B. Case

EDUCATION: B.S. Physics, Loyola University  
M.S. Physics, University of South Carolina,

Thesis: Nuclear Physics

Short Courses: Oak Ridge Associated Universities Radioisotope Laboratory, 1974; Summer session, Health Physics, Imperial College, London, England; Georgia Institute of Technology HP Certification Training course, 1971; Radiation Worker Training courses at several power companies.

EXPERIENCE: INS Corp (9/85-pres.) Corporate Engineer. Responsible for the design of all plant modifications and new systems corporate-wide, including ALARA design modifications. Designed and supervised construction of Plastic Volume Reduction System and Automated Laundry Monitoring systems. Specifies and/or approves all radiation detection instrumentation corporate-wide. Supervises and instructs technicians performing radiation detection instrumentation calibration. INS procedure writing.

Southern Space, Inc. (1971 -9/85) Radiation Safety Officer. Responsible for the administration of radiation safety program for approximately 120 radiation workers. Designed and built Automated Monitoring Systems to assure better product quality. Experience in all areas of Nuclear Laundry operation, including licensing of facilities, operation and calibration of instrumentation, and handling of contaminated materials and waste.

Health Physicist: Susan L. Fanelli

EDUCATION: B.S. Chemistry major, Clarkson University.

Short Courses: Internal Radiation Dosimetry, Dr. K.W. Skrable, June, 1984, Respiratory Protection, Central Connecticut State University, October, 1985.

EXPERIENCE: INS Corp. (10/85-present) Health Physicist. Responsible for maintaining radiation dosimetry programs, computer data bases, and corporate-wide training program. Supervise HP technicians. Generates training material. Procedure writing. Researches and advises Manager of Corp. HP on internal dosimetry and bioassay.

Southern Space, Inc. (5/82-10/85) Health Physics/QA Manager. Managed HP technicians corporate wide. Maintained compliance with government regulations for handling radioactive material. Designed and implemented new QA programs for all employees. Developed procedures for instrumental analysis of effluent, environmental, and biological samples. Performed internal audits, worked with regulatory agencies and insurance auditors.

Southern Space/INS Corp. (5/84-12/86) Product Manager. Manage technicians in a respirator filter recertification program in compliance with government regulations. Scheduled, maintained production and assured the output of a quality product. Handle technical services and QA audits.

Masonic Medical Research Laboratory (9/81-4/82) Research Assistant. Developed and carried out experiments aimed at determining the causes of aging. Prepared graphic material for publication, performed statistical interpolation, and computer programming.

Indium Corporation of America (2/81-9/81) Analytical Chemist. Analyzed metallic alloys, for use in the electronic industry using an Atomic Absorption Spectrophotometer.

Avon Products, Inc. (9/79-6/80) Quality Control Chemist. Responsible for testing raw ingredients for use in the cosmetic industry using instrumental and wet analyses.

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Morris Plt.Mgr/ RSO      Alfred A. Richard

EDUCATION:      ABA Business Administration, Fisher Junior College  
Navy Nuclear Power School - Top 25% of class  
Short Courses:    Health Physics, Internal Dosimetry, University of Lowell, MA.; Various industrial courses in dosimetry.

EXPERIENCE:    INS Corporation (10/84-pres.) Technical Sales Representative. Responsible for sales of clothing, decontamination, and services. Assisted in design of Plastic Volume Reduction Program.

INS Corp. (8/84-10/84) - Assistant Plant Manager. Royersford, PA. Supervised daily operations. Managed personnel. Performed daily surveys. Completed & maintained HP records. Conducted training classes in radiation safety. Responsible for personnel safety.

Hydro Nuclear Services (9/82-8/84) - Health Physics Consultant. Developed and implemented dosimetry program at Susquehanna SES. Member of Emergency Drill Task Force.

Columbia-Montout Vo-Tech School (9/82-5/83)- Instructor. Instructed adult education class entitled "Radiation Monitoring".

Boston Edison Co. (8/77-9/82) - HP Supervisor. Supervised HP Technicians during operations and outages. Responsible for in-plant radiological protection.

Boston Edison Co (1/78-10/79) - Dosimetry Supervisor. Supervised internal and external dosimetry programs.

Boston Edison Co. (8/77-12/78) - HP Technician. Performed surveys, responsible for setting radiation protection requirements.

Numanco, Inc. (6/77-7/77) - HP Technician. Responsible for radiation protection and surveys during refueling outage.

US Navy - (9/74-5/77) - Lead Engineering Lab Technician. Supervised Chemistry and Radiation Protection.

US Navy - (10/69-7/77) - Instructor. Taught Chemistry and Radiation Protection in classroom and operating plant.

HP Consultant: Robert L. Zimmerman

EDUCATION: B.S. Biology, Rensselaer Polytechnic Institute  
M.S. Industrial Management, Georgia Institute of  
Technology.

Short Courses: Health Physics Training course, Oak  
Ridge National Laboratory.

Certified, American Board of Health Physics

EXPERIENCE: Phoenix Technology, Inc. (1974-pres.) President.  
Health Physics Consultant for private-sector industrial  
and medical facilities. Perform health physics  
audits, assist in the formation of Health Physics  
Programs.

Georgia Institute of Technology (1961-1974) Radiation  
Safety Officer.

Republic Aviation Corp. (1959-1961) Health Physicist.

Savannah River Plant (1952-1959). Shift Supervisor,  
Health Physics

Radiation Specialist: Victor M. Crusselle

EDUCATION: Coursework Mechanical Engineering, University of South Carolina.

Naval Nuclear Power School

Short Course: Radioactive Material Transportation, Department of Energy.

EXPERIENCE: INS Corp. (4/87-pres.) - Radiation Specialist. Responsible for regulatory compliance on all radioactive materials transportation issues. Perform periodic Health Physics Corporate audits. Procedure writing and editing. Assist Manager Corporate Health Physics in prescription and execution of radiation safety program corporate wide.

INS Corp. (3/86-4/87) - Plant Manager, Pleasanton CA. Supervised personnel and daily operations. Performed daily health physics measurements and responsible for personnel safety during operations, including radiation safety. Responsible for HP record generation and maintenance.

INS Corp. (12/85-3/86) - Plant Manager trainee, Vicksburg MS. Supervised daily operations. Trained in all aspects of plant operation.

Naval Nuclear Power Training Unit (8/82-12/85)- Radiological Controls Shift Supervisor/Instructor. Responsible for radiological controls during major refueling overhaul. Taught chemistry and radiological controls theory and practical applications for student training on nuclear power plants.

Naval Submarine Tender (8/80-8/82) - Radiological Controls Shift Supervisor. Responsible for radioactive waste processing and transportation, laundering of protective clothing, and decontamination of highly contaminated articles.

Naval Nuclear Submarine (8/78-8/80) - Leading Engineering Laboratory Technician. Responsible for performing all radiological and chemistry controls associated with operating a nuclear power submarine.

Asst. Plant Mgr.                      Steven M. Eno

EDUCATION: B.S. Agricultural Mechanization, Pennsylvania State University.

EXPERIENCE: INS Corporation (10-87-present) Assistant Plant Manager. Supervises daily Health Physics and measurements as necessary. Completes and maintains HP records. Conducts training classes in radiation safety for employees. Direct maintenance of plant machinery and equipment. Responsible for personnel safety during operations.

INS Corporation (3/86-10/87) Plastic Volume Reduction Supervisor. Responsible for the maintenance and use of corporate Plastic Volume Reduction System. Supervises daily operations of the system.

Bechtel Power Corp. (12/84-3/86) Radwaste Specialist, Limerick Generating Station. Planned, supervised, and coordinated decontamination activities. Processed and prepared radioactive wastes for shipment. Supervised work crews for plant housekeeping in the reactor enclosure.

Victor F. Weaver, Inc. (11/82-12/84) - Maintenance Mechanic. Fabricated and modified machinery for processing. Perform preventive maintenance on all machinery. Repair of mechanical, electrical, hydraulic and pneumatic systems. Experience in welding.

Treatment Plant Operator - Monitored all stages of wastewater treatment. Collect samples and perform chemical analyses.

Alternate RSO: Phillip A. Rumian

EDUCATION: Navy Nuclear Power School. Specialized training in radiological controls and radiochemistry.

Short Courses: RSO Training Program (15 hrs. under G.A. Johnstone).

EXPERIENCE: INS Corp. (85-present)-Assistant Plant Manager & Assistant Radiation Safety Officer. Daily operation supervisor. Manages personnel, performs daily health physics measurements & responsible for personnel safety.

INS Corp. (83-85)-Plant Manager/RSO. Supervised personnel & daily operations. Performed daily health physics measurements & responsible for personnel safety during operations, including radiation safety. Responsible for HP record generation and maintenance.

US Navy (81-83). Engineering Lab Technician. USS Los Angeles. Responsible for radiological controls associated with propulsion plant.

US Navy (79-81) Engineering Lab Technician, USS Sargo. Responsible for radiological controls. Dealt with governing bodies such as NAVSEA.

Date: 10/1/87

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ITEM 5a, b, and c

<u>a. Radioactive Material</u>	<u>b. Physical Form</u>	<u>c. Possession Limit</u>
5.1 Any radioactive material, Atomic number 1 - 96.	Contaminated garments and other launderable items, equipment, machinery protective devices, and associated decontamination wastes.	Not to exceed the possession limits specified in NUREG 0767.
5.2 Any radioactive material	Miscellaneous Radiation Standards (SRMs) from the National Bureau of Standards or other suppliers	Total activity of all SRMs not to exceed 5 millicuries or 1 millicurie/source.

ITEM 6Purpose for which licensed materials shall be used

- a. The radioactive materials listed in 5.1 are in the form of contaminated garments, plastics, and other launderable reusable items, equipment, machinery, protective devices, and resulting decontamination wastes. Operations include the transportation of contaminated reusable articles, decontamination by laundry, dry cleaning, or other industrial cleaning processes, and testing and monitoring of items.
- b. Radioactive materials listed in 5.2 are to be used for instrument calibration.

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Individuals Responsible  
for Radiation Safety Program

See Appendix E for Training and Responsibilities of the individuals listed.

Tom Nally, Plant Manager, RSO  
Phillip A. Rumian, Alternate RSO  
George J. Bakevich, General Manager  
Guy R. Wilson, Manager, Corporate Health Physics  
Gregg A. Johnstone, Mgr., Tech. Sales & Marketing  
William R. Roschewski, Operations Manager  
Leslie B. Case, Corp. Engineer  
Susan L. Fanelli, Health Physicist  
Victor M. Crusselle, Radiation Specialist  
Richard Kula, Asst. Plant Manager/Alt. RSO

Users at the plant include any individuals above, when present. Alternate or assistant Plant Managers, or Operations Managers can act as RSO when present.

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tions, hours of operations and carriers' requirements, and 49 CFR 170-189 with respect to shippers' requirements and the proper packaging and shipping of radioactive materials. Additional requirements may be imposed by affected states, particularly in the shipment of radioactive wastes to licensed burial facilities. All employees associated with the transportation of radioactive materials are given classroom instruction in the regulatory requirements of their duties. In addition to training and experience in handling radioactive materials on site, all drivers who transport hazardous materials shipments are required to complete DOT certification requirements.

#### K. Corporate Radiation Protection Program

##### 1. Management Organization

The INS Corporate Health Physics staff provides guidance to all INS facilities in the radiation protection area. The Manager of Corporate Health Physics is independent of Operation and Sales and reports directly to the General Manager, the highest official in INS Corporation. The Manager of Corporate Health Physics is responsible for reporting and providing direction to the General Manager on all health and safety issues. Figure D-4 schematically depicts the upper management organization of INS Corporation. Resumes of the individuals referenced in this section are all provided in Appendix E of this license.

##### 2. Corporate Audits

Corporate audits of INS facilities are performed by the Manager of Corporate Health Physics, Health Physicist, Radiation Specialist or an independent health physics consultant at least annually. These audits include an evaluation of the radiation protection program for compliance with regulatory, license, and insurer commitments, as well as overall safety conditions at the plant. Any radiation worker is free to communicate directly with Corporate Health Physics personnel at any time and direct interviews are sometimes held during unannounced audits. When audits are provided by health physics consultants, a capable individual is selected to perform the radiation safety program evaluation without regard to format or precedence of INS Corporate auditors. In this manner total independence is insured.