

TO: TOM THOMPSON

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To <i>T. Thompson</i>	From <i>Wayne Denson</i>
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Ken D
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**Harold W. Deason
Health Physicist
U.S. Army Aviation and Missile Command
Redstone Arsenal, AL 35898-5000**

**Commercial 256-842-3250
DSN 788-3250**

1. Education:

- a. University of North Alabama (01/15/1965 - 01/25/1970) Florence, Alabama
Degree: B.S. - Major: Zoology; Minor: Business;

2. Professional Experience:

- a. Radiation Safety Officer, U.S. Army Aviation and Missile Command (04/16/2010 – present).

Implements the AMCOM Radiation Safety Program in support of Redstone Arsenal installation and subordinate activity operations for the use of radioactive material, radioactive commodities, and radiation producing devices, lasers and radiofrequency radiation sources used in aviation and missile systems. Provides technical assistance to AMCOM and PEO, Aviation systems on ionizing and nonionizing (lasers, microwaves, etc.) radiation issues. Establishes and maintains safe practices and standards for design, development, production movement, storage, and use, maintenance of radioactive materials/devices used in research and development activities and for material intended for incorporation into the Army inventory. Advises the commander on issues relating to the control of hazards associated with the use of ionizing and nonionizing radiation sources.

- b. Senior Analyst/Health Physicist, Science Application International Corporation (02/25/2008 -- 04/16/2010)

Provide direct support developing and implementing the Army's radiation safety program and federal nuclear licensing processes. Provide technical support serving as a radiation safety advisor to management and users of radiation producing devices and material. Provide professional Health Physics support for life-cycle radiation safety management of radioactive material, and radiation producing devices used by the Army Aviation and Missile Command (AMCOM), incorporated in material managed by AMCOM or being developed by Program Executive Offices and other AMCOM supported Research Development and Test Element activities. Serve as the alternate AMCOM Radiation Safety Officer, Radio Frequency Safety Officer, and Laser Safety Officer. Develop, maintain current, and deliver Radiation Safety Officer Training to military and civilian Army personnel.

- c. Health Physicist, Tennessee Valley Authority, Browns Ferry Nuclear Plant, Athens, AL (08/20/2007 - 02/25/2008)

Independently evaluated, selected, and applied standard Health Physics techniques, procedures, and criteria in the development of technical solutions and programs in support of day to day operations in a multi-unit commercial nuclear power plant. Included is designing and installing of shielding packages, equipment monitors, and large vehicle scanners. Program development included implementation of a multi-plant Health Physics Technician Technical Training Program.

- d. Principal Health Physicist, Washington Savannah River Company, Aiken, SC (04/15/1993 - 07/30/2007)

Over the course of employment at WSRC I served as a Field Engineer in High Level Waste providing technical guidance, oversight and leadership to resolve complex facility radiological issues. Provided guidance needed to enhance the development of less experience Health Physics personnel. Provided documentation of solutions, procedures and projects in accurately recorded and descriptive written form. Served as the facility subject matter expert in the functional area of Health Physics. As Group Leader for training support, provided material development and presentation for radiological control, industrial hygiene, industrial health and safety, computer programs support, and instructional technology. Served six months as acting Division Training Manager. As a Facility Radiological Controls Manager, managed Health Physics technical personnel to complete facility decontamination and decommissioning including "green field" activities. Managed the development of a central site major plant component equipment decontamination, waste minimization, and storage and reclamation center. Developed department implementing procedures and conducted facility radiological control program appraisals of all Health Physics functional areas.

- e. ALARA Engineer/Site Safety Engineer, General Electric Nuclear Services (CDI), Browns Ferry Nuclear Plant, Athens, AL (08/30/1991 - 04/15/1993)

Developed and implemented a major reactor plant system modification project, dose reduction, and manpower plan. Provided technical support for balance of plants operating units, radiological engineering, and radioactive waste management. Performed as the site industrial safety representative for 350 craft and 80 engineering personnel. Was the primary contact for OSHA audits and hearings. Served as the radiological subject matter point of contact with labor representatives, job stewards, and business agents. Coordinated the radiological work packages for three principal subcontractors and the host utility.

- f. Principal Engineer, Health Physics, Westinghouse Savannah River Company, Aiken, SC (06/15/1990 08/30/1991)

Manager of the Health Physics Inspector and Supervisor Technical Training Program. Developed initial program including lesson outlines, testing and instructional materials. Directly supervised 15 professionals and 40 students supporting a Health Physics organization of 450 personnel.

- g. Radiological Controls Shift Supervisor, Watts Bar Nuclear Plant, Spring City, TN (02/05/1990 - 06/15/1990)

Initiated the development of the technician administration program for a nuclear plant initial start-up sequence. Training material was developed, initial and sustaining qualifications identified as well as operational shift structure and management reporting scheme. Developed Health Physics Department operating procedures. Provided Health Physics oriented reactor systems walk-downs prior to unit start up.

- h. Shift Supervisor/ALARA Engineer, Browns Ferry Nuclear Plant, Athens, AL (04/30/1983 - 02/05/1990)

Established a start-up plant health physics program for technicians. Supervised management personnel responsible for accredited training in the areas of Field Operations, Dosimetry, Respiratory Protection and Instrumentation. Provided direct supervisory support for normal and

outage operational Health Physics activities. Developed and implemented the utilities initial exposure reduction (ALARA) program. Designed, developed, produced and successfully used site-specific dose reduction equipment. Upgraded, initiated, and implemented operations procedures. Performed duties as plant operations, refueling outage, and plant modifications outage technician.

i. Health Physicist, U.S. Tennessee Valley Authority, Sheffield, AL (04/15/1982 - 04/30/1983)

Principal instructor for an initial training program for Health Physics Technicians. Developed and presented material in classical and nuclear physics, mathematics, chemistry, instrumentation and personnel dosimetry. Instructed in situational awareness and response in a typical nuclear plant environment. Interacted with plant management to determine proper placement of personnel for most effective productivity and individual success rate. Maintained the Institute of Nuclear Power Operations (INPO) accredited instructor qualifications.

j. Health Physics Technician, Browns Ferry Nuclear Plant. Athens, AL (04/15/1980 - 04/15/1982)

Provide radiological work recommendations, job coverage and operational health physics principles to nuclear power plant personnel working in an industrial plant environment. Direct workers compliance with safe radiological work practices, written procedure and operating nuclear plan policy. Minimize radiation worker, the physical plant and the public's exposure to ionizing radiation. Maintain radiological detection instrumentation and personnel protective equipment in proper working order. Minimize the generation of and subsequent proper processing of radioactive waste.

3. **Professional Registration:** National Registry of Radiation Protection Technicians, January 1985.

4. **Formal Training:**

- a. Laser Safety Officer (04/19/2009), Light Ray Consulting. This course was completed previously in 2008 for the total hours indicated. Topics include Health Effects and Interactions, Exposure Limits, hazard Evaluation, Non-beam Hazards, Regulation and Standards, ANSI Z136/6-2005, Accidents and Incidents, and Control Measures.
- b. Instructional Technologist/Lead Instructor (12/04/1996) DOE Savannah River Site.
- c. Engineering and Technical Training Instructor (06/30/1986) Tennessee Valley Authority. Browns Ferry Nuclear Plant
- d. Health Physics Technician Training (04/15/1982), Tennessee Valley Authority

5. **Experience with Radioactive Materials:**

- a. Nuclear Power Plants – Standard instruments check and calibration sources, reactor start-up sources and typical reactor activation and fission products. Duration of experience approximately 15 years.
- b. Department of Energy – Typical product/waste products of DOE Complex. Duration of experience approximately 15 years.