

STATE OF OHIO (DAS)CLASSIFICATION
SPECIFICATION**CLASSIFICATION SERIES:**

Radiological Analyst

SERIES NO.:

8463

MAJOR AGENCIES:

Public Safety only

EFFECTIVE DATE:

01/21/2007

SERIES PURPOSE:

The purpose of the radiological analyst occupation is to ensure the health and safety of Ohio citizens through planning of protective action and preparedness in order to respond in an event of radiological accident or incident.

At the lower level, incumbents act as liaison with area nuclear power facilities and county and state emergency management officials in assigned geographical area, prepare and present training courses and assist in responding to radiological accidents and incidents.

At the higher level, incumbents supervise and coordinate activities of radiological analysts.

CLASS TITLE

Radiological Analyst

CLASS NUMBER

84631

PAY RANGE

32

EFFECTIVE

08/28/2006

CLASS CONCEPT:

The full performance level class works under direction and requires considerable knowledge of radiological science or health physics in order to act as liaison to nuclear power facilities & county, federal & state emergency management officials in planning & preparedness for response in event of radiological accident or incident, prepare & present training courses, & assist in responding to radiological accidents or incidents.

CLASS TITLE

Radiological Analyst Supervisor

CLASS NUMBER

84635

PAY RANGE

13

EFFECTIVE

01/21/2007

CLASS CONCEPT:

The supervisory level class works under administrative direction & requires thorough knowledge of science in area of radiation & federal, state & local laws & regulations governing radiological safety in order to supervise & coordinate activities of all radiological analysts on statewide basis.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Radiological Analyst	84631	07	08/28/2006	32

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

Acts as liaison with federal, state & county emergency response officials, offsite responders & nuclear power facility officials to develop/revise plans & conduct & evaluate emergency response exercises to ensure response preparedness, discuss any safety concerns, review current & proposed laws, regulations & guidance documents, & ensure implementation of federal programs/compliance with federal & state regulations.

Plans, schedules & develops materials (e.g., instructor guides, lesson plans, student manuals & visual graphics) for training courses, presents training for emergency response personnel in assigned area to ensure readiness in event of nuclear/radiation accident/incident, administers & scores exams, types & issues certificates, maintains records, compiles statistics, & prepares report on training delivered.

Directs operation of county dose assessment team during declared alert at nuclear power plant in assigned area to assess situation, gather data relative to plant status, meteorological conditions, radiological release rates, & field monitoring results & acts as liaison by relaying information to affected counties & state dose assessment team; operates cargo van to transport radiation detection equipment & emergency response equipment & to travel to various locations in assigned area to investigate incident or accident where radioactive material is suspected to be present (e.g., operates radiation detection equipment to determine presence or absence of radioactive materials, takes air samples & determines levels of radiation exposure); assists with assessing &/or mitigating effects of natural &/or technological hazard incident.

Inventories, orders replacement radiological monitoring/exposure control equipment, prepares dosimetry packets & distributes throughout assigned area; exchanges & inventories radiation monitoring equipment with various agencies; inventories & orders replacement of any defective &/or missing decontamination supplies & distributes to appropriate locations; distributes printed materials as necessary; operates personal computer to create & maintain databases, enter/retrieve data, generate reports & create/maintain inventory.

Serves as member of specialized board; participates in observations of nuclear regulatory commission's inspections &/or evaluation of nuclear industry that relates to off-site safety; coordinates PUCO inspection of shipments of radioactive materials that nuclear regulatory commission classifies as safeguard information &/or highway route controlled quantity entering or leaving Ohio; attends meetings & conferences; prepares & delivers presentations at public meetings.

MAJOR WORKER CHARACTERISTICS:

Knowledge of federal, state & local laws, rules, emergency response plans/procedures governing radiological safety & response; algebra; scientific notation; radiological science or health physics; nuclear radiation measurement; public relations. Skill in operation of various radiation detection equipment; operation of computer terminal & use of office systems software & radiological dose assessment program software*; operation of emergency alert system encoder/decoder*: operation of cargo van; audio/visual equipment*: radio transmitter/receiver*. Ability to deal with many variables & determine specific course of action; write operating procedures & plans for nuclear power facilities & state & county emergency management agencies; gather, collate & classify information about data, people or things; handle routine & sensitive contacts & inquiries from government & nuclear power facilities' officials, general public & training participants.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Completion of undergraduate core program in radiological science or health physics; 12 mos. exp. in position applying radiological science or health physics that included operation of radiological equipment; valid driver's license.

-Or 3 yrs. trg. or 3 yrs. exp. in position involving radiological planning, preparedness & response for federal, county or state emergency management agency or nuclear power facility that included exp. in operation of radiation detection equipment; valid driver's license.

-Or equivalent evidence of the minimum class qualifications for employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:

Not applicable.

UNUSUAL WORKING CONDITIONS:

Requires travel; on call 24 hrs./day, 7 days/week; may be exposed to ionizing radiation sources & plume of ionizing radiation; must carry pager.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Radiological Analyst Supervisor	84635	EX	01/21/2007	13

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

Coordinates activities in radiological analysts' assigned multi-county area (e.g., reviews reports outlining analysis or radiation leaks or malfunctions at nuclear facilities & potential effect of leaks on environment & area residents including possible need for evacuation of area, reviews response plans & procedures developed by analysts for radiation incidents & training courses conducted by subordinates) on statewide basis & supervises all radiological analysts.

Develops & tests computer programs that assess magnitude of incident at fixed nuclear facility; assures data bases related to dose assessment are consistent at state & county level.

Acts as leader of state radiological emergency response team (i.e., follows requirements of federal nuclear regulatory commission & coordinates resources & personnel, including participating state agencies in emergency as determined by federal emergency management, provides expert guidance in radiological matters) & works as chief analyst in event of nuclear incidents at power plant facilities.

MAJOR WORKER CHARACTERISTICS:

Knowledge of supervisory principles/techniques*; federal, state & local laws & regulations governing radiological safety; nuclear plant safety; production, interaction & detection of nuclear radiation; nuclear radiation measurement; radiation biology; public relations. Skill in operation of radiation detection equipment; operation of computer terminal*. Ability to deal with many variables & determine specific course of action; write &/or edit technical or scientific material; gather, collate & classify information about data, people or things; establish friendly atmosphere as supervisor.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Completion of core program for undergraduate degree in science (i.e., physics, biology, radiation health physics); 1 yr. exp. in radiological response; 6 mos. trg. or 6 mos. exp. in federal, state & local laws & regulations governing radiological safety; valid driver's license.

-Or 3 yrs. trg. or 3 yrs. exp. in radiological response to include 12 mos. exp. in operation of radiation detection equipment; 6 mos. trg. or 6 mos. exp. in federal, state & local laws & regulations governing radiological safety; valid driver's license.

-Or 12 mos. exp. as Radiological Analyst, 84631.

-Or equivalent of Minimum Class Qualifications for Employment noted above.

TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:

Not applicable.

UNUSUAL WORKING CONDITIONS:

Requires travel; may be exposed to radioactive materials.