

INTEROFFICE CORRESPONDENCE

DATE: September 26, 1994
TO: R. W. Norton, Radiological Engineering, Bldg. T690B, X4075
FROM: R. T. Ogg, Solar Pond Projects, Bldg. 080, X8608 *RT Ogg*
SUBJECT: READINESS REVIEW - RTO-066-94
DOE Order: 4700.1
Action: None Required

The purpose of this memorandum is provide you the information that you requested during the Operable Unit 4 (OU 4) Phase II Resource Conservation and Recovery Act Facility Investigation/Remedial Investigation (RFI/RI) readiness review meeting conducted on September 14, 1994. As you recall, the readiness review will be conducted in two phases with the implementation on non-intrusive activities (geophysics) being conducted first. Solar Pond Projects (SPP) proposes at this time to provide only information required to implement the non-intrusive work activities to expedite the implementation of the OU 4 Phase II Work Plan.

Geophysical Survey Line Locations

The geophysical survey is scheduled to be implemented in the field on October 10, 1994. The first portion of the work will be conducted in the protected area. Following the completion of the survey of lines identified in the protected area, the survey will be moved to the buffer zone. The locations of the geophysical survey lines are provided in the attached figure.

Radiological License Information for Analytical Laboratory

SPP has requested Rocky Flats Environmental Development Site (RFEDS) provided information on the selected analytical laboratories providing support for the OU 4 Phase II Program. However, based on the OU 4 sampling schedule, laboratory assignments have not been made. SPP proposes providing this information to you as we approach the scheduled sampling activities.

Site Safety Officers

Two individual subcontractors will be utilized to implement the OU 4 Phase II RFI/RI Work Plan. Each subcontractor will be responsible for providing a Site Safety Officer (SSO) to ensure compliance to Health and Safety requirements for the project. Engineering-Science (ES) has proposed Ms. Vicki Rothman as the ES SSO. Tierra Environmental Consultants has proposed Mr. Daniel Burgess to fill this position. Resumes of each of these individuals are provided for your concurrence.

DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE

ADMIN RECCRD
IA-A-000280

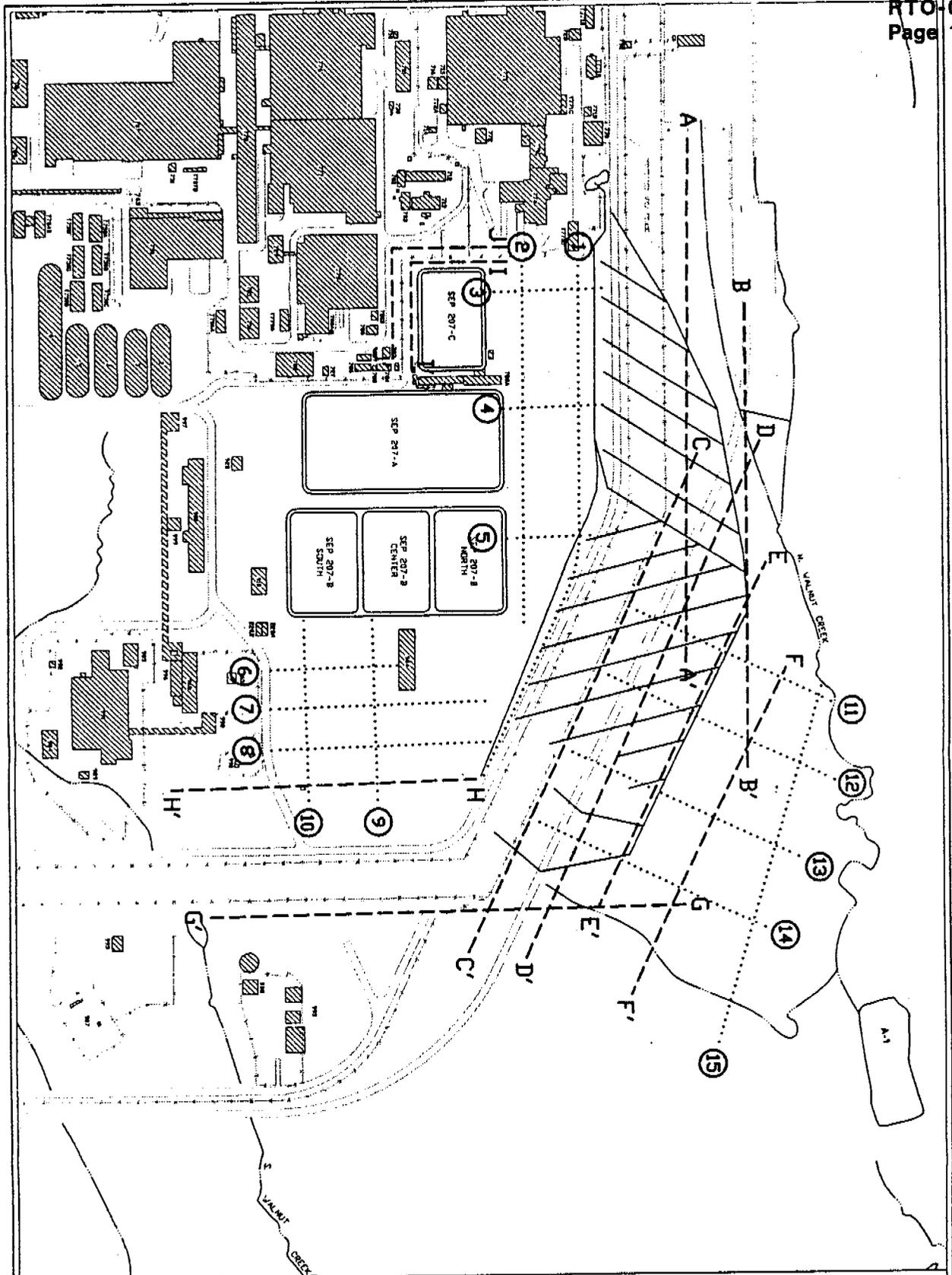
R. W. Norton
September 26, 1994
RTO-066-94
Page 2

If any additional information is required to support your efforts, please contact me or S. M. Paris at X8543.

pjm

Attachments:
As Stated (3)

cc:
D. S. Brown
S. M. Paris
ERPD Records (2)
File



PREPARED FOR
 U.S. DEPARTMENT OF ENERGY
 ROCKY FLATS ENVIRONMENTAL
 TECHNICAL CENTER
 GOLDEN, COLORADO

Figure S2.2
 OU4 Phase B Work Plan
 Proposed Geophysical Line Locations
 September 7, 1994 Rev: 0

LEGEND
 - - - - - Stream
 ——— Paved Road
 [Hatched] Building
 - - - - - Fence
 ——— Interceptor Trench System
 - - - - - Proposed Geophysical Line
 (ICPR, EM, and Seismic)
 ····· Proposed Geophysical Line
 (EM only)

DANIEL S. BURGESShealth and safety
industrial hygiene**EDUCATION**

Community College of the Air Force - 1.5 years applied towards and A.A.S. 1989

CERTIFICATION/CLEARANCE

American Industrial Hygiene Association - Quantitative Industrial Hygiene 1989
 US Air Force Environmental Health Service - School of Aerospace Medicine 1983
 Advanced Health and Safety Training- 8-hours Waste Site Supervisor plus 8-hours
 Level B
 EG&G Rocky Flats Computer Security User (595)
 Radiation Worker Level II (course number 023-482-01)
 EG&G Rocky Flats Health and Safety Specialist
 EG&G Rocky Flats Training on the SOPs for the Decon Pad
 Engineering Science Hazardous Materials Packaging and Shipping (49CFR Part
 172.704)
 Hazardous Materials Training Course - 40 hr. OSHA Certification
 8 hr. Supervisor Certification
 American Red Cross Standard First Aid and CPR

PROFESSIONAL HISTORY

Tierra Environmental Consultants, Health and Safety Specialist, 1994 to Present
 Engineering Science, Health and Safety Specialist, 1993 - 1994
 Rust Environmental and Infrastructure, Health and Safety Specialist, 1992 - 1993

REPRESENTATIVE EXPERIENCE

Mr. Burgess is a Health and Safety Specialist for Tierra Environmental Consultants, Inc. responsible for health and safety issues for the Phase II RFI/RI for Operable Unit (OU 4), Solar Ponds, at the Rocky Flats Plant in Jefferson County, Colorado. The investigation is part of a comprehensive, phased program of site characterization, remedial investigations, feasibility studies, and remedial/corrective actions currently in progress at RFP.

The Phase I RFI/RI addresses the nature and extent of contamination to evaluate the impact of OU4 on surface water, ground water, air, the environment, and biota. The Phase II field activities include: geophysical surveys, well point installation and sampling, surface water, sediment and groundwater sampling, monitoring well installation, aquifer testing, and well abandonment.

Mr. Burgess provided health and safety support on a Phase I RFI/RI investigation located in the Solar Ponds and the Well Abandonment and Replacement Program (WARP) at the D.O.E. Rocky Flats Plant. The Phase I RFI/RI addresses characterization of source materials and soil at OU 4. The characterization of source and soil includes: (1) surficial soil sampling, (2) vadose zone monitoring (installation of neutron access probes and soil tensiometers), (3) environmental

borehole sampling, (4) geophysical surveys, (5) radiological surveys, and piezometer installation.

He is a D.O.E. Radiological Engineering approved HSS (Health and Safety Specialist). Duties included ensuring compliance with Environmental Radiological Management Guidelines (EMRG). He performed conditional and unconditional release surveys and personnel monitoring.

Mr. Burgess is knowledgeable in the operation of radiological and other direct reading instrumentation. He performed safety compliance visits, personal and area air sample collection, noise dosimetry, and completion of HSS documentation. His responsibilities included compliance of all health and safety standards during field operations. He has extensive working knowledge of procedures associated with activities performed within Radiological Controlled Areas (RCA) and Individual Hazardous Substance Sites (IHSS). He ensured compliance with Environmental Management Radiological Guidelines (EMRG). Mr. Burgess was contracted to another company on-site to provide Health and Safety Support as Site Safety Officer.

17

Biographical Data**VICKI L. ROTHMAN**

Health and Safety Specialist

EXPERIENCE SUMMARY

More than nine years of experience in health and safety at sites contaminated with hazardous, radiological, and mixed wastes. Provides health physics and industrial hygiene monitoring. Has performed environmental and occupational workplace surveys in support of asbestos, hazardous waste, and radiological projects, and has experience in soil, sediment, and groundwater sampling. Particularly is experienced in managing health and safety for projects to remediate radiological and mixed waste sites at former U.S. Department of Energy (DOE) nuclear weapons facilities.

EXPERIENCE RECORD

- 1993-Date Engineering Science. Health and Safety Specialist. Currently is serving as the health and safety specialist for remedial services at the Solar Evaporation Ponds, Operable Unit 4 (OU 4) at the DOE's Rocky Flats Plant near Golden, Colorado. Responsible for all health physics and industrial hygiene monitoring. Daily duties include source checking of instruments, health and safety tailgate meetings, and set-up of step-off pad and exclusion zones around radiological controlled areas. During drilling operations, monitors the core generated from a split spoon sampler, decontamination of the spoons, and full radiological survey of drill rig. Other responsibilities include maintaining accurate field data, monitoring personnel, and monitoring for radiological contamination in the lab count room, field trailer, sample shipping room, and all field vehicles. Oversees proper disposal or decontamination of field gear and all aspects of health and safety of personnel. Also provides proper record keeping of personnel and maintains general health and safety regulations on a hazardous waste site.
- 1992-1993 Rust Environment and Infrastructure, Denver, Colorado. Health and Safety Specialist. Responsible for radiological monitoring, health physics, and personnel health and safety supervision during field investigations to determine the nature and extent of contamination in soils and groundwater at the Solar Evaporation Ponds, OU 4, at the Rocky Flats Plant. Managed all aspects of ensuring worker health and safety at the site, which required Level C personal protective equipment (PPE).
- 1990-1992 CH₂M Hill, Denver, Colorado. Radiation Protection Technician. For groundwater sampling work at the Rocky Flats Plant, provided calibration of count room instrumentation, radiation and contamination surveys, dosimetry, and training. Was responsible for onsite maintenance of equipment, weekly contamination monitoring of field trailer, and proper documentation of smear results. Duties included collection of groundwater samples for radioisotopic and hazardous waste analysis, assisting the shipping manager, and QA/QC of all field data.

At the DOE's Paducah Gaseous Diffusion Plant, assisted in the lab, packing and shipping split spoon samples. Responsibilities included completion of DOT chain-of-custody forms, packing of samples, and the data entry associated with sample collection. Also assisted in the collection of samples taken from an air rotary drill rig. Assisted the site health and safety officer in collection of samples analyzed for PCBs. Also assisted a sampling team in the collection of samples from the Lowry Landfill NPL site near Denver.

- 1989-1990 Science Applications International Corporation, Denver, Colorado. **Environmental Technician.** Duties included health and safety surveys, NPDES permit compliance inspection, validation review of analytical data, sample management, and quality assurance. Was responsible for set-up and operation of a document control system for a major environmental contract with Region 8 of the U.S. Environmental Protection Agency (EPA). Field work included collection of environmental samples, preparation of chain-of-custody documentation, and sample packaging for shipment in accordance with EPA and DOT regulations. Performed all aspects of well development, soil-gas surveys, and geophysics surveys.
- Provided industrial hygiene support in asbestos survey projects with responsibility for air monitoring. Was responsible for onsite industrial hygiene and health and safety support for an EPA-sponsored test demonstration of removal of organic contaminants from soil by steam stripping. This included monitoring heat stress of field personnel, checking PPE usage, and monitoring samples for contamination using a photoionization detector. Assisted in the quality assurance (QA) review of data collected at hazardous waste sites at Lowry Air Force Base near Denver and performed data entry of groundwater well information for Rocky Flats. Wrote the historical information segment of the Sharon Steel public relations meeting record, and assisted in the responsible party search for the Sulfur Bank Mercury Mine.
- 1988 Colorado School of Mines, Golden, Colorado. **Health Physics Technician.** Assisted in the design of negative air enclosures, provided asbestos monitoring, and aided in site characterization of tailings ponds for hazardous and radiological constituents. Performed health physics duties in support of Engineering Hall asbestos/radium cleanup. Assignments included calibration and use of personnel and environmental air samples for asbestos and radionuclide monitoring, personnel and equipment decontamination, setup and posting of contamination and radiation areas, radiation and contamination monitoring, surveys of material for unconditional release to the landfill, and count room instrumentation. Performed the daily calibration checks on a variety of radiation monitoring equipment. Also performed safety audits for general OSHA compliance during demolition activities.
- 1987-1988 Rothman Consulting Group, Grand Junction, Colorado. **Environmental Health Specialist.** Performed radon-testing for private homeowners and commercial clients. Assisted in the set-up of air monitors around the Denver Radium NPL site.
- 1985-1986 Bendix Field Engineering, Grand Junction, Colorado. **Radiological Technician.** Performed radiological assessment duties in support of the Uranium Mill Tailings Removal Action (UMTRA) project. Duties included radiation and contamination surveys, gamma surveys, meter calibration, decontamination of personnel and equipment, characterization of UMTRA vicinity properties, and report writing. Performed QA reviews of completed property assessment folios before submittal to the DOE.

EDUCATION AND TRAINING

- 2.5 years toward a B.S. in Biology, Mesa State College, Grand Junction, Colorado
 OSHA 40-hour health and safety training for work at hazardous waste sites with annual 8-hour refreshers
 Radiation biology training