

40-9015

STATE OF MICHIGAN



JOHN ENGLER, Governor

DEPARTMENT OF NATURAL RESOURCES

ROLAND HARMES, Director

NATURAL RESOURCES COMMISSION

LARRY DEWUYST
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JOEY M. SPANO

SAGINAW BAY DISTRICT OFFICE

503 North Euclid Avenue
Bay City, Michigan 48706
March 18, 1993

Mr. Jack Parrott
U.S. Nuclear Regulatory Commission
Mailstop 5E2
Washington, D. C. 20555

Dear Mr. Parrott:

On March 16, 1993, Lisa Boettcher of my staff had a telephone conversation with Mr. Darrel Wiedeman of the Nuclear Regulatory Commission (NRC) Region III regarding the Michigan Department of Natural Resources (MDNR) License for Possession of Radioactive Material Application, submitted February 16, 1993. In response to the conversation, I would like to modify our February 16, 1993, submittal. Please consider this letter a revision of our application.

Attachment 5 is amended to include all residual soils contamination existing on the State of Michigan owned Hartley and Hartley property.

Attachment 7 is amended to include Michael R. Jury as an alternate Radiation Safety Officer. His resume is attached.

Attachment 8 references Appendix A; however, the Appendix should have been labeled B. We have corrected Attachment 8 and have enclosed it.

Attachment 9 is amended to also include beta and gamma radiation in addition to alpha radiation.

Attachment 10 pages 10 and 11 are amended from 130 MPC hours to 40 MPC hours. No worker will be allowed further exposure after he has reached 40 MPC hours. Additionally, all pocket dosimeters will be charged at the beginning of each working day. On page 14 under Selection of Protective Clothing, the word "may" is amended to "will" where the application describes footwear and gloves. Page 17 Personnel Decontamination is also amended to state that "specific procedures will be followed to prevent fixation of material...".

Although it was the intent of MDNR, it was not specifically stated in Attachment 10 that all individuals will be surveyed with the appropriate radiological instrumentation upon leaving restricted zones, prior to entering "clean" zones at the site. The survey will include hands, feet, and clothing.

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PDR ADOCK 040*****
C PDR

NH101



Mr. Jack Parrott

-2-

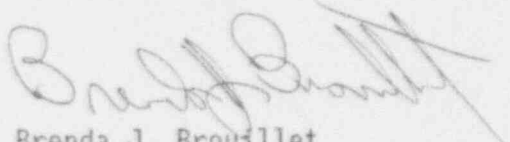
March 18, 1993

Also enclosed is Addendum 2 of the Hartley and Hartley State-owned Phase II Effluent Processing and Treatment Systems for inclusion with Appendix A.

Thank you for the expedited review that we have received from Region III, and trust that the remaining review will be facilitated with this additional information. We hope that these revisions will satisfy the NRC's concerns.

Should you have comments or questions, please contact Ms. Lisa Boettcher, at 517-684-9141, extension 8306.

Sincerely,



Brenda J. Brouillet
District Supervisor
Environmental Response Division
517-684-9141 Extension 8300

Enclosure

cc: Mr. Darrel Wiedeman, NRC Region III

Michael R. Jury
Michigan Department of Natural Resources
Environmental Response Division
503 North Euclid Avenue
Bay City, Michigan 48706
(517)684-9141 ext. 8311

Work Experience:

June, 1991 to present Environmental Manager, MDNR, ERD, Saginaw Bay District Office
Supervise and give technical direction to professional staff in the development and implementation of cleanup projects under the Quality of Life Bond and Act 307 programs. Resolve personnel, policy, and procedural problems. Coordinate with other divisions, state, federal and local agencies, in the investigation and cleanup of sites of environmental contamination. Participate in and supervise staff involved in litigation.

April, 1984 Assistant District Supervisor, MDNR, AQD, Saginaw Bay District Office

June, 1991 Responsible for reviewing air quality permits, assuring compliance with (MAPCC) Michigan Air Pollution Control Commission Rules and the Federal Clean Air Act. Respond to complaints, and conduct investigations of complex air pollution sources. Supervise and give technical direction to professional staff, coordinate and prioritize assignments/projects, train new employees and review completed work. Draft consent orders and work with Attorney General's office.

Resource Specialist: Responsibilities included investigation of complaints, reviewing permits, inspection of industrial facilities, and RCRA inspections. Performed air monitoring duties until 1980. (1978 - 1984)

Air Quality Investigator: Responsibilities similar to above plus air monitoring duties which included operation, maintenance and calibration of air monitoring equipment. (1977 - 1978)

Additional Training:

Groundwater Investigations	Dec 1992
8 Hour Site Supervisor's Training	Oct 1992
Radiation Safety at Superfund Sites	May 1992
First Responder Awareness Training	May 1992
Integrated Emergency Management	May 1992
Sampling For Hazardous Materials	Oct 1991
40 Hour Personal Protection and Safety Training	Aug 1991
Organic Air Emissions From Waste Mgt Facilities	Oct 1990
Asbestos Abatement Training	Feb 1987
Asbestos Demolition/Renovation	May 1985
Air Surveillance for Hazardous Materials	Oct 1984
VOC Sampling and Analysis	Sep 1984
Source Inspection Safety Procedures	May 1984
NESHAPs Orientation Workshop	May 1983
Emergency Medical Technician	1980-1983
Chemical Safety Training	Jan 1982
Hazardous Materials Safety	Nov 1981
Oil Field Safety Inspector Course	Dec 1980

ATTACHMENT

TRAINING

All personnel who will work with licensed material or in radiation controlled areas shall receive a minimum of four hours of training in the principles of basic radiation protection. The training will include the material in Appendix B, "Outline of Basic Radiation Safety Training."

All supervisory personnel shall receive an additional two hour training course in the management principles of radiation exposure and contamination control. This training will cover the additional material in Appendix C, "Supervisor Training Outline."

Each worker who is required to use respiratory protection equipment shall receive training in the use of the specific equipment he/she is to use. The training will include appropriate material in 10 CFR 19 and 20 and the license issued to the Michigan Department of Natural Resources (MDNR). In addition the class will include specific training and practice in the fitting, fit-testing, use and limitations of the equipment.

STATE OF MICHIGAN



JOHN ENGLER, Governor

DEPARTMENT OF NATURAL RESOURCES

Stevens T. Mason Building, P.O. Box 30028, Lansing, MI 48909

ROLAND HARMES, Director

RECEIVED

MAR 17 1993

MDNR - ERD
SAGINAW - BAY

March 15, 1993

TO: Robert McComb, Production and Service Section
Department of Management and Budget

FROM: Shelly Herremans, Contract Procurement Unit
Special Services Section, Environmental Response Division

SUBJECT: Hartley & Hartley, Phase II, Effluent Processing and Treatment
Systems, Bay County
Account No. 133-75-4524, Project No. 9200166

Please process the attached Addendum 2 for the subject contract document.

If you have questions, please call me at 3-6297.

Attachment

cc: Lisa Boettcher, DNR
Earle Latimer, DNR/Section File
Site File

A handwritten signature in cursive script that reads "Shelly Herremans".

DMB-406 (R 4/89)

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities
Third Floor, Stevens T. Mason Building
P.O.Box 30026
Lansing, Michigan 48909

Date Issued: March 15, 1993
Account No.: 133-75-4524
State Unit: Natural Resources
Account Name: Hartley & Hartley-Phase II
Subject: Effluent Processing &
Treatment Systems
Bid Opening: April 7, 1993
2:00pm Local Time

ADDENDUM NO. 2

TO: All Bidders
SUBJECT: Revision to Contract Document
INTENT: This Addendum is issued to revise the Specifications

Item 1 - The bid date is extended from March 27, 1993, to April 7, 1993,
2:00p.m. Local Time

Item 2 - Drilling logs were requested for the encapsulated portion of the
site. They are generalized as follows:
0-1 ft. Topsoil
1-8 Clay Cap
8-15 Sand, very fine
15 Glacial Till

Item 3 - A listing of the constituents of the leachate was requested:

Vinyl chloride	up to 8 ppm
1,2-Dichloroethane	up to 22 ppm
Trichloroethylene	up to 110 ppm
Benzene	up to 2 ppm
trans-1,2-Dichloroethylene	up to 210 ppm
Toluene	up to 4 ppm
Methylene Chloride	up to 2 ppm
*Manganese	up to 25 ppm
*Aluminum	up to 24 ppm
*Barium	up to 0.03 ppm
*Vanadium	up to 0.6 ppm
*Silver	up to 0.03 ppm
*Arsenic	up to 11 ppm
*Copper	up to 0.04 ppm
*Nickel	up to 0.5 ppm
*Zinc	up to 17 ppm
*Cobalt	up to 0.07 ppm
*Lithium	up to 0.4 ppm
*Iron	up to 340 ppm
*Magnesium	up to 180 ppm
Chloride	up to 1200 ppm
Ammonia	up to 95 ppm
Sulfate	up to 240 ppm

* Indicates dissolved constituent

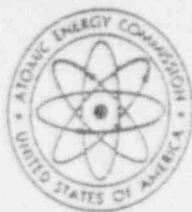
- Item 4 - The blueprint is incorrect with regard to the materials to be used for the access drive. Use the bid document specifications in Section 3.13.2, page 47.
- Item 5 - The specifications Section 3.3.2.1 are unclear with regard to the measurement of the clay. The clay is to be compacted in place. No soils from contaminated sources may be used. The Owner reserves the right to request the Contractor to perform analysis on clay from a suspect source.
- Item 6 - The Addendum 1, Nuclear Regulatory Commission (NRC) license application did not describe specific levels of acceptable surface contamination levels for tools. The NRC acceptable release levels are attached. With regard to personnel, the radiologic contamination at this site does not bind to proteins and is expected to be fully removable from any worker who becomes contaminated.
- Item 7 - All radiologic waste generated should be minimized and kept separate from other wastes. Radiologic waste will be disposed of on site. No hazardous wastes are expected to be generated, therefore all wastes should be disposable at a licensed Type II facility. In the event that hazardous wastes are generated, a change order request may be submitted.
- Item 8 - Two control panels for the pretreatment system in the control/effluent processing building may be installed rather than the one panel described in the specifications.
- Item 9 - Approximately 50 to 100 gallons of leachate has been estimated to be produced daily from each dewatering well. This number may be used to calculate the amount of liquid to seep into the dewatering well. This liquid should be collected to be treated in the Owner's pretreatment system. No offsite disposal of liquids is anticipated to be required.
- Item 10 - The metals precipitation unit discussed in the meeting is not included in the specifications. It is not part of this phase of the project and will be added at a later date if required.
- Item 11 - The Contractor will not only be required to comply with the Owner's security, but will also be required to comply with all requirements of security for the Waste Management, Inc.-owned Hartley and Hartley parcel.
- Item 12 - The electrical power supplied to the site has been changed to 208 volts from 240 volts. It remains three phase.
- Item 13 - The levels of personal protective clothing required at the site for the items listed on page 13 of the Bidder Pricing Sheet are anticipated to be the following:
Drilling and Borehole Material Disposal Operations, Level B Piping Installation, Level D with the ability to upgrade to C System Construction, Level D

- Item 14 - In Section 3.4.2.6, Seals include the end of the pipe connecting the pump station and manhole and others identified on Sheet 4 of 6 of the blueprints.
- Item 15 - In Section 3.7.2.1, the model number mentioned refers to a QED Environmental System Model No. 99-2253. Information may be obtained by phoning Jim Boisineau at 1-800-624-2026 or 313-995-2547.
- Item 16 - Information on the data link system: D-L2, mentioned on the blueprints, can be obtained by contacting the R.H. Jackson Co., 1973 Brinston, Troy, MI 48083, #(313) 689-9950.
- Item 17 - The lighting panel is specified as a 100 Amp, 30 Space panel. However, a 27 space panel is acceptable. All controls for the treatment system must be on the inside of the building except controls for the pump station which will be on the outside to comply with NEC: disconnect within line of sight.
- Item 18 - On Sheet 6 of 6 of the Blueprints, under the chart titled System Monitor and Control, should read the "Flow Totalizer" mentioned in the first and second box under the Monitor column. Delete the words "meter with". The bottom reads correctly as "Flow Rate with Totalizer".

The flow totalizer should be a QED Solo Pump Pneumatic Counter, QED Part No. 36363 or equal, at each of the seven solo pumps. The flow rate is not required, just total flow out of each well.

Flow counters will not send a signal back to the data link system from the pneumatic pumps. Only a flow rate will go back to the data link via the metered manholed flow meter.
- Item 19 - The contractor will be responsible for the chemical air monitoring plan. The MDNR will be responsible for the radiologic air monitoring plan.
- Item 20 - Enclosed is the pre-bid meeting attendees list.

June 1974



U.S. ATOMIC ENERGY COMMISSION

REGULATORY GUIDE

DIRECTORATE OF REGULATORY STANDARDS

REGULATORY GUIDE 1.86

TERMINATION OF OPERATING LICENSES FOR NUCLEAR REACTORS

TABLE I

ACCEPTABLE SURFACE CONTAMINATION LEVELS

NUCLIDE ^a	AVERAGE ^{b c}	MAXIMUM ^{b d}	REMOVABLE ^{b e}
U-nat, U-235, U-238, and associated decay products	5,000 dpm α /100 cm ²	15,000 dpm α /100 cm ²	1,000 dpm α /100 cm ²
Transuranics, Ra-226, Ra-228, Th-230, Th-228, Pa-231, Ac-227, I-125, I-129	100 dpm/100 cm ²	300 dpm/100 cm ²	20 dpm/100 cm ²
Th-nat, Th-232, Sr-90, Ra-223, Ra-224, U-232, I-126, I-131, I-133	1000 dpm/100 cm ²	3000 dpm/100 cm ²	200 dpm/100 cm ²
Beta-gamma emitters (nuclides with decay modes other than alpha emission or spontaneous fission) except Sr-90 and others noted above.	5000 dpm β - γ /100 cm ²	15,000 dpm β - γ /100 cm ²	1000 dpm β - γ /100 cm ²

^aWhere surface contamination by both alpha- and beta-gamma-emitting nuclides exists, the limits established for alpha- and beta-gamma-emitting nuclides should apply independently.

^bAs used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

^cMeasurements of average contaminant should not be averaged over more than 1 square meter. For objects of less surface area, the average should be derived for each such object.

^dThe maximum contamination level applies to an area of not more than 100 cm².

^eThe amount of removable radioactive material per 100 cm² of surface area should be determined by wiping that area with dry filter or soft absorbent paper, applying moderate pressure, and assessing the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of less surface area is determined, the pertinent levels should be reduced proportionally and the entire surface should be wiped.

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313-238-9190

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Novi, MI 48375-2422
313-344-9505

Carlo Environmental Technologies
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313-468-9580

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Saginaw, MI 48604
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Kalamazoo, MI 49001
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Great Lakes Environmental Services
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Warren, MI 48091-1208
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MacKenzie Environmental Service, Inc
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TMI Environmental Services
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313-789-7155

ACKNOWLEDGEMENT: Two (2) copies of this addendum, properly signed in the space provided below, must be acknowledged and returned with the bidder's proposal for submission of a valid proposal. The changes and information shall become part of the contract documents. (Authority: 1984 PA 431)

FIRM NAME

BIDDER'S SIGNATURE

DATE

Sincerely,

Robert T. McComb, Manager
Production Services Section
Office of Facilities

DMB406.FRM