85070

ROUTING OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE FOR APPROVAL

(Used to route ENG Form 4025 with items attached. Not to become a part of the Contractors's record)

	TO:	FROM:	DATE
1	USEPA REGION III MAIL CODE 3HW22 841 CHESTNUT BUILDING PHILA., PA. 19107 ATTN: GREG CRYSTAL	OHM REMEDIAL SERVICES CORPORATION 180 MYRTLE STREET LOCK HAVEN, PA 17745 ATTN: TONY GARCIA	NOVEMBER 20, 19

The attached items listed on ENG Form 4025 are forwarded for approval action

CONTRACT NUMBER	CONTRACTOR
DACW45-93-C-0200	OHM REMEDIAL SERVICES CORPORATION
TRANSMITTAL NUMBERS	**PROJECT TITLE AND LOCATION**
11E	DRAKE CHEMICAL SUPERFUND SITE, LOCK HAVEN, PA.

COMMENTS (Attach additional sheet, if necessary.)

TRIAL BURN PLAN
REVISION 2 - NOVEMBER 1996

Modify the Kiln Burner nominal rating from 30 million BTU/Hr to 45 million BTU/Hr.

NO. OF INCL.	TYPED NAME AND TITLE	SIGNATURE
1 TO EPA 4 TO AREA	ANTHONY T. GARCIA QUALITY CONTROL MANAGER	Anthony T. Garcia

	TO:	FROM:	DATE
2			

COMMENTS (Attach additional sheet, if necessary.)

NO. OF INCL.	TYPED NAME AND TITLE	SIGNATURE

	TO:	FROM:	DATE
3			

COMMENTS (Attach additional sheet, if necessary.)

NO. OF INCL.	TYPED NAME AND TITLE	SIGNATURE

	TO:	FROM:	DATE
4			

The following action codes are given to items listed on ENG Form 4025:

ACTION CODES

A - APPROVED AS SUBMITTED.

B - APPROVED, EXCEPT AS NOTED ON DRAWINGS. RESUBMISSION NOT REQUIRED.

C - APPROVED, EXCEPT AS NOTED ON DRAWINGS. REFER TO ATTACHED SHEET. RESUBMISSION REQUIRED.

D - WILL BE RETURNED BY SEPARATE CORRESPONDENCE.

E - DISAPPROVED (SEE ATTACHED)

F- RECEIPT ACKNOWLEDGED

G - OTHER (specify)

ACTION CODES TO BE INSERTED IN COLUMN G, SECTION I, ENG FORM 4025 (Attach sheets, when required.)

ITEM NO. (Taken from ENG Form 4025)						
CODE GIVEN						

REMARKS

NO. OF INCL.	TYPED NAME AND TITLE	SIGNATURE

ENG FORM 4026 1 NOV 74 EDITION OF NOV 66 MAY BE USED.

AR312910

*U.S. G.P.O.: 1988-523-108

- Kiln Burner—Two oxygen-fuel burners installed in the kiln faceplate are designed to burn natural gas or propane. These burners are each rated at a nominal ~~30 million Btu/hr~~. The two kiln burners operate on pure oxygen.

The incinerator system operates in an oxygen-enriched combustion environment. The use of oxygen or oxygen-enriched air in place of air for incineration improves the overall performance and efficiency of rotary kiln incinerators by enabling throughput increases, better DRE and better mobility. As oxygen replaces part or all of the air for incineration, the nitrogen portion is reduced in both the oxidant and the flue gas. Therefore the volumes of the oxidant and flue gas are reduced per unit of waste processed. In addition, the concentration of oxygen in the fuel/oxidant mixture is increased.

Natural gas is fired in the kiln burner as required to maintain temperature in the kiln discharge. Natural gas is fed to each burner on flow control which is cascaded to temperature. A burner management system is installed to control burner light-off, operation and shutdown. The system is designed to control the air purge cycle prior to burner light-off; to control the lighting of the burner; and to monitor the flame, combustion oxygen supply pressure, and fuel supply pressure. The burner management system is interlocked to immediately close the fuel double-lock valves when unsafe conditions occur.

2.3.3 Ash Discharge System

The incineration system is provided with a series of conveyors designed to segregate incinerator ash into two main categories; bottom ash and fly ash. Bottom ash consists of kiln bottom ash, cyclone ash, and SCC ash and slag. Fly ash consists of evaporative cooler ash and baghouse ash. Bottom ash is conveyed to the bottom ash storage area, and fly ash is conveyed to the fly ash

Table 2-3. PROCESS MONITORING INSTRUMENT SPECIFICATIONS

Parameter	Instrument manufacturer	Model No. and instrument type	Instrument range	Instrument accuracy	Calibration procedures	Calibration frequency
Solid Waste Feed Rate	Milltronics or equivalent	SA (weigh belt)	0-100 tons/hr	2% of span	Fine zero and fine span are performed electronically at control panel. Acceptable zero span deviation = ±3%. Fine span – use test weight. Acceptable fine span = < 2%. Repeat fine span check to verify repeatability.	Zero Daily Span Weekly
Kiln Fuel Rate	YEWFLO or equivalent	VF100 (Vortex shedder) (Qty 2)	0-~~40,000~~ scfh	2% of span	No zero adjustment, adjust span by connecting a 250-ohm resistor and sine wave generator to 2 to 5 V and set the frequency. When load resistance is 250 ohms, adjust span until multimeter indicates 5 V.	Annually
Oxygen to Kiln	YEWFLO or equivalent	VF100 (Vortex shedder) (Qty 2)	0-~~60,000~~ scfh	2% span	No zero adjustment, adjust span by connecting a 250-ohm resistor and sine wave generator to 2 to 5 V and set the frequency. When load resistance is 250 ohms, adjust span until multimeter indicates 5 V.	Annually
Kiln Temperature	Honeywell	STP3000 Type K (thermo-couple) (Qty 2)	0°-2300°F	1% of span	Adjust zero with voltage source calibrator representing 4 mA or 10 mA. Adjust upscale using voltage source to 20 mA or 50 mA using coarse and fine span adjustments.	Monthly
Kiln Hood Pressure	Rosemount (or equivalent)	3051 (DP cell)	–1 to +1 inWC	1% span	With zero input applied to the transmitter, adjust calibration with "Smart" calibrator to 1.0 VDC. Apply 1.0 inH_2O to transmitter high side connection. Adjust calibration with "Smart" calibrator to 5.0 VDC. Repeat procedure.	Semi-annually
Kiln Rotation	Electro-sensors or equivalent	SSA-SOP Digital tachometer	0-3 rpm	1% of span	Verify rotational speed with stopwatch.	Monthly

85073

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

December 3, 1996

Mr. Michael A. Ogden
Department of the Army
U. S. Army Corps of Engineers
Harrisburg Area Office
285 18th Street
New Cumberland, PA 17070-5016

VIA: FAX (717)770-7660

RE: Drake Chemical Superfund Site — Letter No. 0330
Contract No. DACW45-93-C-0200

Subject: November 27, 1996
Meeting Minutes
Demonstration of Passing Bins at 40 Tons per Hour (t/h)

Dear Mr. Ogden:

On the above referenced date, the following individuals participated in some or all of several face-to-face and telephone discussions relating to the above referenced topic. This correspondence documents the outcome of those discussions and the USEPA's direction to OHM to demonstrate that all putdown criteria can be achieved at a 40 t/h rate.

USACE	USEPA	OHM
Dave Modricker	Frank Vavra	Rick Santucci
Chad Thompson		Gary Jones
Danny Zion		

The USEPA (Frank Vavra) has directed OHM to produce two or three bins of bottom ash at a rate of 40 t/h that meet all site specific putdown criteria. Additionally, the USEPA (Frank Vavra) has directed OHM to produce two or more bins at a rate of 50 t/h that meet the BNA site specific putdown criteria. It is our understanding that the accomplishment of the above is to be achieved prior to commencing the Risk Burn and Trial Burn on December 13, 1996.

Should you have any questions regarding this subject or any other matter, please don't hesitate to contact the undersigned.

Respectfully yours,
OHM Remediation Services Corporation

F. J. Santucci, P. E.
Project Manager

FJS/tlm

cc: Mr. D. Modricker, USACE Project Engineer
Mr. G. Crystall, USEPA
Mr. F. Vavra, USEPA
Mr. G. Jones, Technical Manager
Mr. T. Garcia, Project QC Manager
USACE - File out
Mr. M. Radek, Project Director
Mr. R. Campbell, V. P. of Operations
Mr. J. Ferrel, Project Controller
Mr. D. Molnar, Cost/Scheduling Manager
Mr. W. Spedding, Project Eng./Contracts Coord.
Chron-File