6772

Ohio Environmental Protection Agency

Renewal Application for a Permit to Operate

an Air Contaminant Source

International Minerals + Chemical Corp	George Shahin
Facility Name	Person to Contact
Middle Road	P.O. Box 858
Facility Address	Mailing Address
Ashtabula Ashtabula 44004	Ashtabula Ohio 44004
City County Zip	City State Zip
0204010056 P002	216 997-5511
Application No. (see attached Notice)	Telephone Area Number

1. Complete and attach one of the following appendices most appropriate to the air contaminant source. Only one appendix may accompany this application.

   (Check one)
   - X Appendix A, Process
   - ___ Appendix B, Fuel-Burning Equipment
   - ___ Appendix C, Incinerator
   - ___ Appendix D, Surface Coating or Printing Operation
   - ___ Appendix E, Storage Tank or Loading Facility

2. Description of Source (same as used on appendix): Sludge Retorting Process

3. Your Identification for Source (same as used on appendix): Retort

I, being the individual specified in OAC 3745-35 of the rules of the Ohio Environmental Protection Agency, hereby apply for a Permit to Operate OAC 3745-35-02 for the air contaminant source described herein.

Signature of Officer or Owner*
George Shahin

Title: Plant Manager

Date: Nov. , 1980

* As per OAC 3745-35-02(B)(1) (Permit to Operate)
See Instructions On Other Side

AP-PS-1101
8/11/77

mise No. ___/___/___/___
rce No. ___/_____
lication No. ___/_____

APPENDIX A, PROCESS

PROCESS DATA

me of process Sludge Retorting Process

End product of this process Recovered Mercury

Primary process equipment Knipps Child Mercury Retort

Your identification Retort Year Installed 1971

Manufacturer K+K Metal Construction Make or model 249615-DO-L

Capacity of equipment (lbs./hr): Rated 35 Max. 42

Method of exhaust ventilation: ☒ Stack ☐ Window fan ☐ Roof vent
☐ Other, describe

Are there multiple exhausts? ☐ Yes ☒ No

OPERATING DATA

Normal operating schedule: 24 hrs./day, 3 days/wk., 26 wks./year.

Percent annual production (finished units) by season:
Winter 25 Spring 25 Summer 25 Fall 25

Hourly production rates (lbs.): Average Not Measured Maximum

nual production (indicate units) Not Measured
rrojected percent annual increase in production

Type of operation: ☐ Continuous ☒ Batch

If batch, indicate ~~Minutes~~ per cycle 24 hrs Minutes between cycles —

Materials used in process:

List of Raw Materials	Principal Use	Amount (lbs./hr.)
Sludge + Fines Material which may contain mercury	Mercury Recovery and Containment within the plant	Not Measured

A PROCESS FLOW DIAGRAM MUST BE INCLUDED WITH THIS APPENDIX. Show entry and exit points of all raw materials, intermediate products, by-products and finished products, Label all materials including airborne contaminants and other waste materials. Label the process equipment and control equipment.

CONTROL EQUIPMENT

Control Equipment Code:

(A) Settling chamber
(B) Cyclone
(C) Multiple cyclone
(D) Electrostatic precipitator
(E) Fabric filter
(F) Spray chamber
(G) Cyclonic scrubber
(H) Impingement scrubber
(I) Orifice scrubber
(J) Venturi scrubber
(K) Plate or tray tower
(L) Packed tower
(M) Adsorber
(N) Condenser
(O) Afterburner - catalytic
(P) Afterburner - thermal
(Q) Other, describe _____

15. Control Equipment data:

Item	Primary Collector	Secondary Collector
(a) Type (See above code)	N	
(b) Manufacturer	K+E Metal Const. Co	
(c) Model No.	249615-DO-L	
(d) Year installed	1971	
(e) Your identification	Retort Condenser	
(f) Pollutant Controlled	Mercury	
(g) Controlled pollutant emission rate (if known)	not Known	
(h) Pressure drop	not Known	
(i) Design efficiency	not Known	
(j) Operating efficiency	not Known	

STACK DATA

16. Your stack identification Retort Vent Stack

17. Are other sources vented to this stack? ☐ Yes ☒ No
If yes, identify sources _____

18. Type: ☒ Round, top inside diameter dimension 3 inch
☐ Rectangular, top inside dimensions (L) _____ x (W) _____

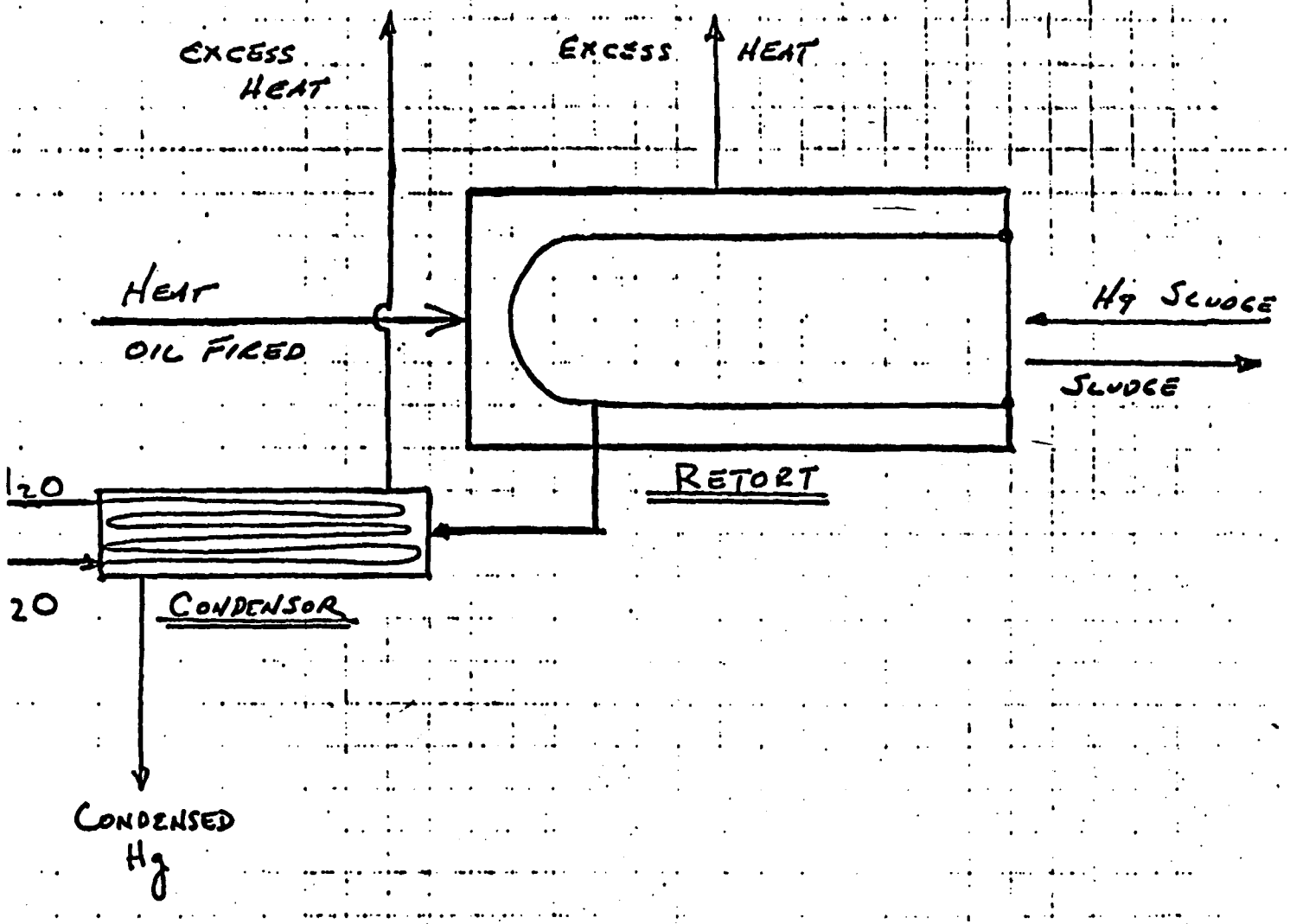
19. Height: Above roof ____ ft., above ground 12 ft.

20. Exit gas: Temp. 70 °F, Volume 58 ACFM, Velocity 1200 ft./min.

21. Continuous monitoring equipment: ☐ Yes ☒ No
If yes, indicate: Type _____, Manufacturer _____
Make or Model _____, Pollutant(s) monitored _____

22. Emission data: Emissions from this source have been determined and such data is included with this appendix: ☐ Yes ☒ No
If yes, check method: ☐ Stack Test ☐ Emission factor ☐ Material balance

Completed by Dennis Ahlstrom, Date 11/21/80



FILAMENTS → GRAPHITE

↑ SAME AS DOWNDOWN!

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