2.0

Alcoa Wenatchee

Smith's notes

4-18-88

Alcoa Al. - Wenatchee

Arrived at Main Office ~~0930~~ 0930 hrs. DOE Industrial Inspector not here yet. Picked up copy of Alcoa Annual report.

James A. Thompson Northwest Environmental Manager met me at 0958.

Discussed reason for inspection - What a hazardous substance is - RCRA proposals and what we will want to see today

R. Stanley of DOE arrived
1010 hrs.

Chuck Rice was here
looking at PCB's in
Capacitors.

Plant began in 1952 —
Always Al reduction.
How many acres ?

Alcoa
1501 Alcoa Bldg.
Pittsburg,
owns property.

Electrolytic Reduction
process.

750 pots on 5 lines.

Water Waste.

> 1 water process system in
ingot plant has
castor oil (NPDES)
used - there are 7
lagoons to filter out
castor oil. One
lagoon used each
day - bact. bio degrad
into soil - no
discharge.

> 3 underground pipe
systems. 1 package
sewage lagoon
system. 3 lines
have electrostatic

6-7" rain/yr

precipitators and
water scrubbers.
Add lime raise
pH - remove
fluoride - add
polymer to settle
out solids in pond.
Supernate and
sludge are split
part recycled
and part discharged
to river. (Columbia
river)
> 3rd sewage water
system handles
all other plant
water.

Air discharges
- Primary source is from 5 pot lines
2 lines are on patented dry recovery system. 3 are electrolytic & wet scrubbers.
The first two are a closed loop process.

the 7 lagoons are not in series.

Hydrocarbons from tar bricks are filtered in a seperate process.

MAP given to me
by Jim Attachment 1

Alcoa News Attach #2

Hazardous Materials

> Pot linnings ~~may~~ will have hazardous material

> pH, fluoride, Cyanide

> Cathodes are soffend with water. Steam escapes into air.

> Respirators

> pavement scrapers

> bag areas and grinding bath.

>

Cyclohexylamine
Morpholine 55 gal drum
by transformers.

Walked to Cuvode building
Coal Tar petch volatals
on upper level.

Sampled:
mixer area
(Ball mill)
grinder area
press area

Done by vibration
until it compacts.
low pressure
process is lubricated
with Texaco
soluable veg oil.

goes to 2 lagoons near

Ground water -
Potable wells (2)
on site are 125'
according to Jim
Thompson

Cuildings. There is Tex sol oil, some mineral and petro lubrecant. ponds ≅ 40' by 80 X 6' when full.

Bake pitch/carbon bricks for 16 days to burn volatals off. Gas pulled off on a manifold and taken to header exit into "446 unit" where alumina is, and aluminum is produced,

1% chlorine 99% Argon
Fluxing agent in
a Gach.

pot vents are asbestos lined. Old asbestos goes to on site land fill. Some still in use.

Sodium Al fluoride is pot bath material that is chipped out and put back in

Al 60 million lbs./mth. production. —

Pot linning pit ~~Dras~~ landfill is about 1/3 acre by 30' deep.

Calcium fluoride &
Some Alumina wast
is in another land
fill. 1/2 acre x 10'

There are 3 test
wells just N. of
~~pot~~ ingot castings
lagoons - pump 1 million
gallons a day into
lagoons - test well
30' away don't get
enough H_2O to
sample.

Looked at PCB
Capacitors.

this is monitored
Each stack off a line
is roughly 1,000,000 CFM
off the Alcoa 446
recovery unit for
hydrocarbons is
roughly 100,000 CFM
to 125,000 CFM.

Employees at full pro
direction 950.

Dross shipped off by
rail. Secondary
smelter buys dross.

Pot linings are
stack piled.

(b) (6)

Further information requested from Jim Thompson's office:

1. Quantity of alloy products – annual tonage report

2. a) Area of Alcoa property
   b) Fencee property area

3. Secondary Smelter & shipper.

4. Permits