



Manitoba Operations



STANDARD PROCEDURE INSTRUCTION

Title		SPI
Disposal of Refinery Refuse		#52-3
Department	Supersedes SPI Dated	Effective Date
Refinery	Jan 1977	1993

1. PURPOSE

- 1.1 To ensure the segregation and disposal of Refinery refuse in a manner which allows efficient reclamation of process metals.

2. REFUSE TERMINOLOGY

The categories of refuse dealt with in this SPI are defined as follows:

- 2.1 Refinery Process Burnables - Nickel impregnated, combustible waste, excluding Discardable Masking Sticks. Examples of material in this category include press plates and frames, cathode boxes, timbers used in contact with electrolyte, filter cloths and similar materials. (See Section 6.1).
- 2.2 Refinery Process Solids - High value, incombustible materials such as floor cleanings. (See Section 6.2).
- 2.3 Discardable Masking Sticks - Unserviceable polyethylene sticks used in the production of nickel starting sheets. (See Section 6.3).
- 2.4 Light Garbage - Waste paper, lunchroom refuse and similar materials. (See Section 6.4).
- 2.5 Heavy Garbage - Transite pipes, concrete, non-nickel bearing construction timbers and similar non-metallic materials not included in the preceding definitions. (See Section 6.5).
- 2.6 Scrap Metal - Metallic waste suitable for salvage. (Section 6.6).

3. SCOPE

These procedures apply to:

- 3.1 Refinery Operations (responsible for segregating refuse as described in Section 6).
- 3.2 Traffic and Transportation (responsible for supervising the pickup and dumping of light garbage and portions of the Process burnables as described in Section 4).
- 3.3 Purchasing and Warehousing (responsible for directing the dumping of refuse in the plant dump and burning it as described in Sections 4 and 5).
- 3.4 All other departments which may regularly or occasionally deliver material directly to the dumpsite.

4. **PICK-UP AND DELIVERY OF REFINERY PROCESS BURNABLES**

- 4.1 Pick-up of Refinery Process Burnables.
 - 4.1.1 Small Refinery Process burnables will be picked up by the light-garbage-contractor from the tote box under the chute on the west side of the Refinery. Pick-ups will be made daily, Mondays through Fridays. Refinery Operations will arrange for any additional hauling needed. (See Section 6.1.1).
 - 4.1.2 Larger Refinery Process Burnables will be handled and delivered to the dumpsite by Refinery Operations. (See Section 6.1.2).
 - 4.1.3 Refinery Process Burnables must not be mixed with other refuse (including Light Garbage).
- 4.2 Dumping of Refinery Process Burnables
 - 4.2.1 Refinery Process Burnables are to be dumped in #3 Burnables Pit (see attached map) or in other areas of the Plant Dump acceptable to the Superintendents of Purchasing and Warehousing and the Refinery.
 - 4.2.2 All other waste is to be dumped in the Bulk Waste Area (see attached map) or as directed by Warehouse personnel.

5. **COMBUSTION OF REFINERY PROCESS BURNABLES**

- 5.1 Refinery Process Burnables are to be burnt in #3 Burnables Pit (see attached map) or in other areas of the Plant Dump acceptable to the superintendents of Purchasing and Warehousing and the Refinery.
- 5.2 No other waste is to be burnt with the Refinery Process Burnables.
- 5.3 Only Warehouse personnel are authorized to set fires in the Dump (See SPI 33-1).
- 5.4 The Refinery is responsible for reclaiming the nickel bearing ashes from the combustion of Refinery Process Burnables.

6. **SEGREGATION OF REFINERY REFUSE**

6.1 Refinery Process Burnables

6.1.1 Refinery Process Burnables should be discarded through the chute on the west side of the Refinery into the tote box below. The material is to be broken to a size which will fit into the box and the box is not to be overfilled.

6.1.2 If Refinery Process Burnables cannot be conveniently discarded through the West Chute (because of size of pieces, volume of material or location in building), Refinery Operations is responsible for arranging for a truck to pick up and deliver these materials to #3 Burnables Pit or other area of the Plant Dump acceptable to the Superintendents of Purchasing and Warehousing and the Refinery. (See Section 4.2).

6.2 Refinery Process Solids

Refinery Operations will arrange to either combine these solids with Copper Residue at the Copper Drier, or, with co-operation from Smelter Operations, revert them to the Smelter. Material reverted to the Smelter must be free of wet or combustible material and large salt agglomerations.

6.3 Discardable Masking Sticks

Refinery Operations is to bind these together on the Stripping Floor and revert them to the Smelter on the narrow gauge railroad.

6.4 Light Garbage

Refinery Operations is responsible for ensuring that this material is placed in tote boxes outside of Doors 19, 29 and 33A.

6.5 Heavy Garbage

Refinery Operations will arrange, as needed, for a truck to deliver this refuse to the "Bulk Waste Area" of the Plant Dump (see attached map) as directed by Warehouse personnel.

6.6 Scrap Metal

Metallic Scrap will be segregated and delivered to the Scrap Yard as described in SPI 28-3, "Scrap Metal Accumulation and Disposal".

APPROVED _____ General Manager – Manitoba Operations

DATE _____