1. Ores, Ore concentrates

2. Secondary Raw Materials (e.g. Refinables No. 9.1 (Materials for reclaim, PM with or without support), 9.2 Materials for reclaim (PM in bricks, trays, etc.))

3. PM containing Intermediates from recycling processes (e.g. Refinables No. 1.1, 1.2, 2, 3.1, 3.2, 4.1, 4.2, 4.3, 4.4, 5.1 6.1, 6.2, 6.3, 6.4, 7, 8, 9.1, 9.2, 9.3, 10.2)

Hydro-metallurgical process

No → Pyro-metallurgical process

Yes → Cf. decision tree part 2

Yes → (Hydro-)electro-chemical refining

No → Precipitation and Crystallisation

No → Leaching and Dissolution → Cf. decision tree part 1d (Cementation, Reduction and

Yes → Cf. decision tree part 1a

Yes → Cf. decision tree part 1b

Yes → Two-phase separation

Liquid phase → still PM containing?

No → ~~Liquid Waste~~ out of Refinables scope

Yes → still UVCB?

No → 6.3 Nitric acid solutions from PM leaching and dissolution EC: not yet assigned

No → PM/PM compound containing mixture or mono constituent substance out of Refinables scope

Yes → 6.4 Hydrochloric acid solutions from PM leaching and dissolution EC: not yet assigned

Solid phase → still PM containing?

No → ~~Solid Waste~~ out of Refinables scope

Yes → still UVCB?

No → PM/PM compound containing mixture or mono constituent substance out of Refinables scope

Yes → 4.3 Residues from PM leaching and dissolution EC: not yet assigned

5.1 Matte leaching residue EC: not yet assigned