

Self-Discharge Ships

Nominally a 70,000mt bulk carrier with on-board reclaim conveyors and a discharge boom with an integral belt conveyor (self-discharge ship). This ship will berth at the dock and the raw material on board will be discharged from the ship via the self-discharge boom. The self-discharge boom will swing into the required position and transport the raw material from the ship, and deposit it into a receiving hopper located on the shore.

The following text describes the systems for transport of raw materials from the ships to the nearby Orcem Site under Phase 1 and Phase 2:

Phase 1 (<500,000 tons annually)

- The discharge rate using either geared ships or self-discharge ships will be an average of 660 tons per hour.
- The ship side hoppers will have a capacity of 80 tons. **In Phase 1 the mobile hoppers at the dockside will feed onto a common mobile conveyor system.** Raw materials (GBFS and clinker) will be loaded onto a continuous, covered belt conveyor system from the shipside all the way to the storage areas (a distance of up to 1,000 feet). This conveyor system will operate at an average rate of 660 tons per hour, and will be located within an easement area across the VMT Site as shown in the Plan Set in Appendix A.
- In the case of GBFS, during Phase 1, the conveyor will discharge the material in the open storage area. This material will then be consolidated into a managed pile as described below.
- In the case of clinker, during Phase 1, the conveyor will discharge the material into the covered Raw Material Storage Building (Building #8 as listed in Table 2).

Phase 2 (>500,000 tons annually)

- **In Project Phase 2 the mobile hoppers at the dockside will continue to feed onto a common mobile conveyor system.** Raw materials (GBFS and clinker) will be loaded onto a continuous, covered belt conveyor system from the shipside all the way to the storage areas (a distance of up to 1,000 feet). This conveyor system will operate at an average rate of 660 tons per hour, and will be located within an easement area across the VMT Site as shown in the Plan Set in Appendix A.
- In the case of GBFS during Phase 2, the conveyor system will discharge the GBFS in the area of the open stockyard floor. This material will then be consolidated into a managed pile as described below.