

Section 2.15 Construction and Operation Activities

The Applicant will be responsible for the construction of Project. Construction of the project will occur in several general stages including the following main activities:

- Construction of temporary access roads, construction stormwater BMPs and temporary laydown areas.
- Placement of temporary construction offices
- Site grading and installation of subsurface ground improvements
- Installation or movement of underground utilities
- Construction of above ground utilities
- Excavation for, and pouring of unloading track trenches, and other subsurface basins
- Construction of the storage area berm, including placement of the HDPE liner
- Installation of rail ballast, rail ties, tracks and other rail infrastructure
- Construction of building, tank and equipment foundations
- Construction of field erected buildings and tanks
- Construction of above and below ground pipelines
- Removal of portions of berths 13 and 14, reinforcement of existing piling and construction of new dolphins, catwalks and other dock elements walkways
- ~~Removal of piles at Terminal 2 for compensatory mitigation~~
- Installation of piping, mechanical, electrical, fire protection and other equipment necessary for the Ffacility
- Testing and commissioning.

2.15.1 Construction Schedule and Milestones

Figure 2.15-1 identifies the major schedule milestones, engineering and procurement, construction and start-up. The construction schedule is based on receipt of a Site Certification Agreement by November 2014 and is subject to change. The construction schedule ~~would~~ will be revised to reflect the actual date of approval of the Site Certification Agreement, and provided to EFSEC at least 60 days prior to the beginning of construction.

2.15.2 Construction Workforce

During the construction period approximately 250 construction workers will be employed at the site. Levels will vary over the construction period with a maximum daily workforce of 125 construction workers. Table 2.15-1 summarizes the composition of construction workforce by trade. Most of the construction workforce is anticipated to be hired from the Vancouver/Portland metropolitan area, and its adjoining cities and counties. Workforce may also be sourced from the broader Seattle/Tacoma area. Workers from the Portland/Vancouver area would be expected to commute daily to the construction site; commuters from further afield would be expected to commute on a weekly basis, staying in RV parks and motels near the Ffacility site during the workweek.

Table 2.15-1. Construction Workforce by Trade

Trade	Number of Construction Staff
Carpenters	20
Concrete	15

Trade	Number of Construction Staff
Electrical	35
Iron Workers	32
Laborers	53
Mechanical	50
Operating Engineers	25
Tank Erectors	20
Total for TSPT	250

2.15.3 Operation

When operational, employee levels will vary as a function of project capacity ramping up to satisfy market demand. At full operation there will be up to 110 permanent full time staff.

Table 2.15-2 provides a breakdown of staff by trade. The Facility will be staffed and operated 24 hours per day, 7 days per week, and 365 days per year. In addition to the staff noted below, two Tesoro Refining & Marketing Company LLC employees will conduct loading operations at the Marine Terminal, and approximately seven to eight longshoremen will be utilized during mooring activities at the dock.

Temporary workforce may be added during major Facility maintenance activities. Regular maintenance of major equipment purchased from suppliers (e.g., boiler water treatment systems) may be conducted under contract.

Table 2.15-2. Operations Staff

Trade	Number of Operations Staff
Unloaders	52
Switchman	12
Locomotive Engineers	20
Mechanics	8
Administrative & Logistics	5
Safety	3
Inspectors	8
Supervisory and Management	12
Total for TSVEDT	120