

TITANIUM CASTING FACILITY

CLIENT: Precision Castparts – Ti Plant
LOCATION: Portland, Oregon

All project phases included architectural, structural, mechanical, and electrical engineering disciplines.

Phase 1 - 58,000 sq. ft. conversion of a telephone equipment manufacturing facility to a Titanium Investment Casting Facility. Included all functional areas.

Phase 2 - 28,800 sq. ft. concrete tilt-up addition to Phase 1 building. Addition included investing dip, investing drying, investing sand storage vault, baghouse, kaowool, investing wax, tool/die areas, mechanical mezzanine, and 7,200 sq. ft. of 2nd level offices served by a new elevator.

Phase 2A - (2) pre-fabricated metal building additions to rear of Phase 1 building. 7,500 sq. ft. foundry/heat treating addition and 2,400 sq. ft. receiving building with concrete loading ramp.

Phase 2B - Entry, façade, 1st/2nd level office, and restroom modifications totaling 4,800 sq. ft. Project involved panelized sheet metal/louvered entry façade with matching exterior exit stair turrets.

Phase 3 - 46,800 sq. ft. concrete tilt-up addition to Phase 1 building. Additions included shipping, inspection, welding, grinding, marking, restrooms, first aid, offices on the 1st level, and 14,400 sq. ft. of offices on the 2nd level. A two-story concrete tilt-up addition was also adjacent to the Phase 3 main addition. Each floor was 625 sq. ft. and held process support mechanical equipment.

Phase 3A - 7,300 sq. ft. pre-fabricated metal building extension to Phase 2A buildings. Added Ti Furnace Room and Foundry Annex. Project also included a 300 ft. long by 6 ft. (average height) concrete retaining wall to create a fire lane at the rear of the building and three new cooling towers.

Phase 3B - 352 sq. ft. modification to Phase 3 building to create a new personnel cleaning shower/locker room. Included monitoring of radioactivity levels and personnel area zoning control.

Phase 4 - Modification of 9,060 sq. ft. of Phase 1 building to create small parts cells. Cells included salvage/grinding, welding, and x-ray areas. Project also included the creation of a 256 ft. by 10 ft. fire-rated exit corridor connecting the Phase 2 and Phase 3 additions.

Phase 4A - Inter-tie of boilers installed in Phase 1 and Phase 3.



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