

HISTORIC AMERICAN ENGINEERING RECORD

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Columbia Basin Project, Grand Coulee
Pump-Generating Plant
Grand Coulee
Grant County
Washington

HAER No. WA-139-C

Jet Lowe, HAER Photographer, May 1996

- WA-139-C-1 View of Pump-Generating Plant, looking north.
- WA-139-C-2 Interior of Pump-Generating Plant, looking south.
The Pump-Generating Plant contains two General
Electric Units, 6 Westinghouse units, and 2 Voest-
Alpine units.
- WA-139-C-3 Interior of Pump-Generating Plant, showing two
Voest-Alpine pump-generators at south end of plant,
looking southwest.

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ADDENDUM TO:
COLUMBIA BASIN PROJECT, GRAND COULEE PUMP-GENERATING
PLANT
Grand Coulee
Grant County
Washington

HAER WA-139-C

Photographs no. HAER WA-139-C-1 through HAER WA-139-C-3 were previously transmitted to the Library of Congress.

The originals of the historic construction drawings seen in HAER WA-139-C-42 through HAER WA-139-C-45 are held at the Grand Coulee Power Office, Grand Coulee Dam, Washington. Those prints are 8x10" enlargements from 4x5" negatives.

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Clayton B. Fraser, photographer, November 2004

WA-139-C-4	General view of Pump-Generating Plant, garage and office complex. View to east.
WA-139-C-5	Pump-Generating Plant garage and parking lot for office complex. View to southeast.
WA-139-C-6	Office complex for firefighters and Pump-Generating Plant. View to northeast.
WA-139-C-7	Office complex for firefighters and the Pump-Generating Plant (left), with transformers for pump-generators in foreground. View to north.
WA-139-C-8	Transformers and trash racks for pump intakes at Pump-Generating Plant, with barge at right. View to north.
WA-139-C-9	Transformers and garage at Pump-Generating Plant. View to southwest.
WA-139-C-10	Garage, parking lot and underground parking lot at Pump-Generating Plant. View to south.
WA-139-C-11	Garage door at Pump-Generating Plant. View to southwest.
WA-139-C-12	Bust of President Franklin Roosevelt and reflecting pool in small park at south end of Pump-Generating Plant abutment. View to northwest.
WA-139-C-13	East front and north side of reception building and entrance to tower for Pump-Generating Plant. View to west.

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WA-139-C-14	South side and west rear of reception building for Pump-Generating Plant. View to northeast.
WA-139-C-15	South side of reception building for Pump-Generating Plant. View to north.
WA-139-C-16	Entrance on south side for reception building for Pump-Generating Plant. View to north.
WA-139-C-17	Interior of reception building, showing entrance doors. View to southwest.
WA-139-C-18	Interior of reception building, currently used as storage for janitorial contractor. View to north.
WA-139-C-19	Vehicle ramp leading to underground parking garage inside Pump-Generating Plant. View to south.
WA-139-C-20	Underground parking garage inside Pump-Generating Plant. View to south.
WA-139-C-21	Underground parking garage inside Pump-Generating Plant. View to north.
WA-139-C-22	Pump-Generating Plant garage. View to north.
WA-139-C-23	Pump-Generating Plant garage. View to south.
WA-139-C-24	Pipe fitter's shop in fifth floor of Pump-Generating Plant. View to north.
WA-139-C-25	Pipe fitter's shop in fifth floor of Pump-Generating Plant. View to east.
WA-139-C-26	General view of pump-generator floor of Pump-Generating Plant. Units closest are the pump-generators (four Hitachi and two Westinghouse); furthest ones are pumps (four Westinghouse and two General Electric). View to north.
WA-139-C-27	Pump-generator floor of Pump-Generating Plant. Pumps are closest pump-generators are farthest. View to south.
WA-139-C-28	Pump-generator floor of Pump-Generating Plant, showing 100-ton bridge crane manufactured by Whiting Foundry & Equipment Company. View to south.
WA-139-C-29	Westinghouse pump inside Pump-Generating Plant, from above. Electric motor rated at 65,000 horsepower (hp) and the impeller rated at 1.6 thousand cubic feet per second (kcfs). View to east.
WA-139-C-30	Hitachi pump-generator inside Pump-Generating Plant, from above. Electric motor rated at 72,000 horsepower (hp), impeller rated at 2.0 thousand cubic feet per second (kcfs), generator rated at 53 megawatts (mw). View to east.
WA-139-C-31	Main floor (eleventh floor) of Pump-Generating Plant. View to south.

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WA-139-C-32	Stairwell leading down to impeller gallery inside Pump-Generating Plant.
WA-139-C-33	Control panel (background) and dc generator (on floor, foreground) for p2 (general electric pump) inside Pump-Generating Plant. View to southeast.
WA-139-C-34	Control panels for pumps and pump-generators inside Pump-Generating Plant. View to south.
WA-139-C-35	DC generator and induction motor used to energize electric motors on Westinghouse pumps in Pump-Generating Plant. View to south.
WA-139-C-36	Shaft and wicket gates on Westinghouse pump-generator inside Pump-Generating Plant. View to north.
WA-139-C-37	Wicket gates and hydraulic cylinders used to open/close the gates of Westinghouse pump-generator. View to north.
WA-139-C-38	Compressor room inside Pump-Generator Plant, showing ACBA receiver tank, P/G plant, ACB air and compressors. View to south.
WA-139-C-39	Compressor room, showing 460-volt motor board and breaker panels/controls for roll-down doors, standby service air, fixed wheel gates and coaster gates. View to north.
WA-139-C-40	Gallery inside Pump-Generating Plant, with penstock intake coaster gate bypass valve on left. View to south.
WA-139-C-41	Impeller and turbine gallery inside Pump-Generating Plant. View to north.
WA-139-C-42	Photographic copy of construction drawing, Bureau of Reclamation, 7 April 1936. "Grand Coulee Pumping Plant: General Plan."
WA-139-C-43	Photographic copy of construction drawing, Bureau of Reclamation, 5 April 1950. "Grand Coulee Pumping Plant, Unit P1 : Second Stage - Outline -- Longitudinal Sections."
WA-139-C-44	Photographic copy of construction drawing, Bureau of Reclamation, 7 September 1938. "Grand Coulee Pumping Plant: Discharge Pipe Tunnels -- General Layout."
WA-139-C-45	Photographic copy of construction drawing, Bureau of Reclamation, 3 October 1938. "Grand Coulee Pumping Plant: Discharge Pipe Tunnels -- Profiles."