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LIBBY NEWS RELEASE

Twenty-five years ago Libby Dam only existed on paper. That was the year the project was authorized by Congress in the 1950 Flood Control Act. Between 1950 and 1967, when the construction contract was awarded for the main dam structure, plans and designs were formulated and negotiations with the Canadian Government went forward. By 1961 an agreement had been reached with Canada, and the Columbia River Treaty was signed by President Dwight D. Eisenhower and Prime Minister John George Diefenbaker. However, the matter of the Canadian share of downstream hydroelectric power had not been settled. Negotiations were once more undertaken and an agreement was reached in 1964 with an exchange of documents by President Lyndon B. Johnson and Prime Minister Lester B. Pearson, agreeing to a cash payment to Canada.

The Seattle District of the Corps of Engineers, builder of the dam, hired an architectural consultant to assist with the design of the damsite structure and treatment of surrounding areas. Following normal Governmental procedures, the Corps selected Paul Thiry, a Seattle architect. Thiry's instructions were to prepare a basic concept that combined the beauty of the site with the forcefulness and simplicity of the dam. He furnished

(more)

the Corps a comprehensive plan for the architectural treatment of the dam and powerhouse, visitors facilities, and landscaping. From this, Corps engineers prepared final plans.

When construction of the main dam was begun, work was already in progress on the 7-mile Flathead Tunnel. Working from both ends and using a laser beam for alinement, the tunnel was holed through in June 1968. So accurate was the beam, that the two bores were only a few inches out of alinement when they met. The tunnel, including the ventilation and communications systems, and the 60 miles of relocated Burlington Northern main line track, were put into service in November 1970.

Eafore Lake Koocanusa appeared behind the dam, two road systems had to be revised. Montana State Highway 37 was rerouted along the eastern shore of the new lake, with Forest Development roads on the west bank. Connecting the two systems is the Lake Koocanusa Bridge, 34 miles above the dam. Completed in 1971, it is the longest and highest bridge in Montana. It was named by the American Institute of Steel Construction the "Prize Bridge for 1972" in the long span category.

Mother Nature controlled construction progress on the project. Montana winters all but closed down activities, but contractors moved ahead at full speed during the warmer months. In June 1968 the first mass concrete pour was made. The dam then grew upward in sections, or monoliths, as concrete was mixed at a nearby batch plant and hauled to the site aboard "dinky" trains.

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One of the concrete pours was out of the ordinary. When the 3.5 millionth cubic yard was poured on September 25, 1971, then-President Richard Nixon was on hand to pull bucket release lanyard. Helping him dump the concrete were Montana Senator Mike Mansfield and First Congressional Representative Richard Shoup.

One of the outstanding features of the dam structure is the Treaty Towar beside the spillway extending 57 feet above the top of the dam. Currently being installed on the upstream face of the tower is a manmoth sculpture commemorating the United States-Canada Treaty. The Vermont granite relief art piece was conceived by Encino, California sculptor Albert Wein. He was commissioned to execute his design after winning the Corps' international sculpture design competition in 1972.

The powerhouse, last phase of the dam to be built, is almost complete. The four initial generation units of eight are new being installed.

The first generator will be placed in service during dedication ceremonies at the dam, culminating 31 years of proposals, studies, investigations, negotiations, and construction activities.

The formal ceremony has been set for Sunday, August 24, at 1:00 p.m. with pre-ceremony entertainment beginning at 10:00 a.m. Visitors can take selfguided tours of the dam, powerhouse, treaty tower, and visitors center. The Air Force NORAD Band from Colorado Springs, Colorado, will join local and Canadian musical groups in presenting entertainment. John McIntire of TV and movie fame, has accepted the role of Master of Ceremonies.

(more)

DATES, RELOCATIONS, AND MAJOR CONTRACTORS

LIBBY DAM, located on the Kootenai River in the northwestern corner of Montana, is 17 miles upstream of Libby, Montana and 219 river miles upstream from the confluence of the Kootenai and Columbia Rivers. This \$470,000,000 project provides local flood control in Montana and Idaho, regional flood control on the entire Columbia River in conjuntion with the Canadian Treaty Dams, hydroelectric power generation and recreation. Construction of the dam has been completed, with minor finishing work progressing on schedule. Approximately 3,700,000 cubic yards of concrete were used in the contruction of the dam.

IMPORTANT DATES

- Construction of Dam began April 1967 One-millionth cubic yard of concrete placed 25 July 1969
- Flathead Tunnel Completion 1959
- Burlington Northern traffic switched to new relocated line

1 November 1970

- Lake Koocanusa Bridge completed September 1971
- Montana State Highway 37 traffic temporarily detoured over new Forest Development Road and Lake Koocanusa Bridge 6 November 1971
- Initial pool raise started 21 March 1972
- The dam was completed in December 1972
- Full operation of dam, as required by Canadian Treaty, scheduled 30 June 1973
- First power on line 24 August Dedication

RELOCATIONS

Roads: 118 miles

Montana State Highway - 52 Miles Forest Development Roads - 50 Miles Miscellaneous County and Other

- -Roads 16 Miles
- Railroads Burlington Northern 60 miles (includes 7-miles Flathead Tunnel)

MAJOR CONTRACTORS

ZOOK BROTHERS CONTRACTING COMPANY Great Falls, Montana Forest Development Unit 1 and Barron Creek Detour

E. F. MATELICH CONSTRUCTION COMPANY Kalispell, Montana United States Forest Service Ranger

and Week Center Canoe Gulch

FIFTH WEST, INC. Sealthe, Washington Resident Engineer and Visitor, Center

LIBBY DAM BUILDERS Boise, Idaho Libby Dam and Montana State Highway 37, Unit 3A

KING-PAOLA & ASSOCIATES, INC. Kalispell, Montana Great Northern Railroad - Stryker to Swamp Creek

BREZINA CONSTRUCTION COMPANY, INC. Salt Lake City, Utah Aircraft Landing Field

BEAVER STATE CONTRACTORS, INC. Eugene, Oregon Great Northern Railroad Creek to Little Wolf Creek

MURPHY BROTHERS, INC. Spokane, Washington Forest Development Unit 4A and 4B

PETER KIEWIT SONS' COMPANY Vancouver, Washington Montana State Highway 37, Unit 3B(1) Left Abutment Instrumentation

KEARNEY BROTHERS, INC. Tigard, Oregon Rexford Water Supply Line

HALVORSON - MASON CONSTRUCTION Portland, Oregon Powerhouse

GEORGE A. GRANT Richland, Washington Selectice Withdrawal II R. A. HEINTZ CONSTRUCTION COMPANY Portland, Oregon. Reservoir Bridge and Approach Roads

Montana State Highway 37, Unit 1 and Unit 3B-2

Great Northern Railroad Ariana · Creek to Jennings

SLATE - HALL (Joint Venture)
Portland, Oregon
Great Northern Railroad - Little
Wolf to Ariana

MOTTNER, McCUTCHEN & OSBERG CONSTRUCTION COMPANY -- Woodinville, Washington Tunnel Ventilation Swamp Creek -Rock Creek

MORGAN & OSWOOD CONSTRUCTION CO., INC. Great Falls, Montana Libby Junior High School & Music

Room Addition to Asa Wood Junior High School

MacGREGOR TRIANGLE COMPANY Boise, Idaho Forest Development Road, Unit 2 and Unit 3

MORRISON-KNUDSON COMPANY, INC. Boise, Idaho Track Laying and Communications System

STEWART-ERICKSON Seattle, Washington Montana State Highway, Unit 3C-D Rock Buttress at Left Abutment

HALVORSON - BERG Spokane, Washington Visitors Accommodations

PACIFIC VENTURES, INC. Bellevue, Washington · Slective Withdrawal III

LIBBY DAM AND RESERVOIR

INFORMATION SHEET

Libby Dam is a hydroelectric power installation at river mile 219 on the Kootenai River, Montana, authorized by the Flood Control Act of 17 May 1950. Construction was initiated in 1965. It consists of a concrete gravity dam and powerhouse which encloses the four indoor-type Francis turbines and power generation facilities. Substructure is provided for four additional units.

GENERAL

Stream

Kootenai River, Montana and British Columbia

Montana and British Columbia

State, Province

River mile above mouth

Drainage area

Discharge, mean annual

Flood peak, historical (1894)

Flood peak, maximum recorded (1916) (Libby)

Discharge, minimum recorded (1930) (Libby)

Average annual flow (Libby)

Spillway design flood

9070 sq. miles

11,140 cfs

219

130,000 cfs

121,000 cfs

895 cfs

11,840 cfs . 206,000 cfs

NPSOP-PO

LIBBY DAM AND RESERVOIR

Project Construction Time	Years (under construction)
Years in operation	1972 Flood Control
Storage and principal elevations	1975 Power (estimated first unit) 1977 Completion (estimated)
Reservoir gross capacity (E1, 2459)	5,850,000
Joint use storage for flood control & power	4,965,000 acre-feet
Powerhead and incidental recreation (E1 2287)	885,000 acre-feet
Normal full pool elev.	2459 feet, msl
Minimum pool eley.	2287 feet, vsl
Normal tailwater elev.	2115 feet, msl
RESERVOIR	•
Area normal full pool (El 2459)	46,500 acres
Length of reservoir	90 miles
Shoreline of reservoir	224 miles
DAM	•
Type of dam	Concrete gravity, gate .
Elevation of top of dam	2472 feet, msl
Length:	3055 feet
. Height - foundation to roadway	370 feet
Volume of concrete	3,800,000 cu yds
Spillway	•
Type .	Gated ogee, concrete, gravity
Elevation - top of gata	2460 feet, msl
· ú.	·

-- E Spillway (continued).

Control gates, type Control gates, number Control gates, size Crest elevation

Sluice Gates (four)

Emergency Sluice Gates (1)

Stilling Basin

Type Length Width Apron elevation Baffles End sill Training wall top elev. Tailwater for project flood Tailwater for spillway design flood

Intake Structure

Number of units Length Height Deck elevation Gates (size - N/A) Tainter

Two

 $48^{1} \times 59^{1}$

2407 feet, ms1

10 x 19.5 gates

Vertical lift, tractor 12 x 18

Hydraulic jump with sloping end sill, without baffles

170 feet

120-feet----

2050 feet msl

None.

10'0" high, one step

2128 feet

E1, 2138 ms1

El. 2144 msl

8

3

504 feet

420 feet

2472 feet msl

Four (tractor type)plus one emergency

Intake Structure (continued)

Panstock, number of

Penstock, size of

Powerhouse Length

Turbines

Number Type

Capacity per unit

Speed

Rated net head

Generators .

Number

Rated capacity per unit (nameplate)

· Total rated capacity

Transformers

Number Banks

Capacity

Relocations

Railway

F. D. Roads

Four concrete stop logs (future units) Four - initially Eight - ultimately

20 feet diameter

576.5 feet

Four - initially. Eight - ultimately

Francis

165,000 hp @ 300 ft rated head

128.6 rpm

300 feer

Four initially Eight ultimately--

105,000 kw

420,000 kw - initially 840,000 kw - ultimately

Two.

N/A

H/A -

ľ,

60' (approx) miles

56 miles

AUGUST 24, 1975

HBBY DAM

EDICATION

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COLUMBIA RIVER TREATY

FAGT SMEE

The Columbia River Treaty between the United States and Canada concerns international cooperation in water resource development of the Columbia River Basin. It was signed on January 17, 1961, ratified by Congress in April 1961, and formally accepted by Canada and the United States on September 16, 1964.

Terms of the treaty called for Canada to build Duncan, Hugh Keenleyside (formerly Arrow Lakes), and Mica Dams, and gave the United States the option of building Libby Dam. Although terms of the treaty in regard to Libby Dam were not obligatory to the United States, the treaty re-. quired that if this country decided to build, construction would have to start within five years of the effective date of the treaty, and full operational storage would have to be provided within seven years of construction start.

The United States took up the Libby Dam option and began construction on June 30, 1966. Full operational storage at Libby Dam-Lake Koocanusa was available June 30, 1973, thereby meeting treaty requirements.

At the time of treaty ratification, an advance payment of \$273.3 million went to Canada for the additional power that would be generated downstream power plants over a 30-year period as a result of Canadian storage. Storage at Canadian dams was available as follows:

Duncan Dam and Lake - July 31, 1967; Hugh Keenleyside Dam and Arrow Lakes - October 10, 1968; and Nica Dam and McNaughton Lake - March 30, 1973.

In addition to this advance payment for downstream power, the United States agreed to pay a total of \$64.4 million for the role the three Canadian treaty dams would play in preventing damaging floods in Washington and Oregon. These payments were made in stages as each of the dams became operational.

FLOODING AND LIBBY DAM

FAGT SMEE

The Kootenai is the third largest tributary of the Columbia River and accounted for 18% of the runoff in major floods. Damaging floods occurred on an average of once every two years on the Kootenai River downstream from Libby Dam, principally affecting Troy, Montana; Bonners Ferry, Idaho; and 34,000 acres of leveed agricultural land in the Kootenai Flats extending from Bonners Ferry, Idaho, downstream to the U.S.-Canadian border.

Flooded land in the U.S. portion of the Kootenai Flats amounted to 32,000 acres in 1948, 4800 acres in 1950, 6600 acres in 1954, 17,000 acres in 1956 and 7000 acres in 1961. During the last 27 years, floods in this area caused \$2.2 million in damages.

The two near-record spring runoffs -- 1972 and 1974 -- were held in check by Libby Dam. Flood damages prevented by Libby Dam amounted to about \$20 million in 1974 and over \$12 for 1972.

Without Libby Dam, the downstream water levels in 1974 would have exceeded the disastrous floods of May 1948 and May 1961, and would probably have caused levee failures and flooding in the Bonners Ferry, Idaho area. The Corps of Engineers used the Dam to hold the river levels down to about 22 feet on the Bonners Ferry river gauge. With no regulation the river would have risen to 38 feet, seven feet above major flood level. Similarly, without the dam, the river stage near the town of Libby would have risen to near 20 feet instead of the seven feet observed.