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Diag. Cht. No. 6157 Insert

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph=63 Office No. T-10422

### **LOCALITY**

State Washington

General locality Columbia River

Locality Finley

19...57...

CHIEF OF PARTY

V. Ralph Sobieralski

Portland Photogrammetric Office

LIBRARY & ARCHIVES
JUN 6 1960

DATE .

USCOMM-DC 5087

### DESCRIPTIVE REPORT - DATA RECORD

T = 10422

Project No. (II): Ph-63

Quadrangle Name (IV):

Field Office (II): Pasco, Washington

Chief of Party: V. Ralph Sobieralski

Unit Chief: R. B. Melby

Photogrammetric Office (III):

Portland, Oregon

Officer-in-Charge:

V. Ralph Sobieralski

Instructions dated (II) (III):

20 March 1956

(Field and Office)

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

Graphic

Manuscript Scale (III): 1:15,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV)

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 2 F May 1959

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to counding datum to mean low-water or mean lower low-water For the McNary Dam Reservoir the elevations refer to Normal Pool Level of 340 ft. above M.S.L.

Reference Station (III): RUIN(USE)1950

460 101 08.817" Lat.:

1190 001 50.545" Long.:

Adjusted X

272.2m (1580.3m)

1084.3m (202.8m)

Unadjusted

Plane Coordinates (IV):

State:

Zone:

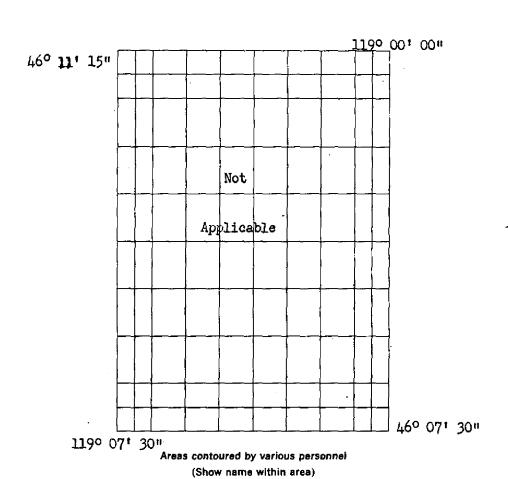
Y=

X≕

Roman numerals indicate whether the Item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (iV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

### DESCRIPTIVE REPORT - DATA RECORD



(II) (III)

COMM- DC- 57842

### DESCRIPTIVE REPORT - DATA RECORD

Field inspection by (II): R. B. Melby

Date: Summer 1957

Planetable contouring by (II):

Date:

Completion Surveys by (II): .

Date:

Mean High Water Location (III) (State date and method of location): Spot locations at intricate places were made in the field. For the most part the shoreline at normal pool level of 340 ft. above M.S.L. was delineated in the office from photographs taken on 9-26-54 when the pool was at that level.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): J. L. Harris

Date: 6-12-57

Control checked by (III):

J. E. Deal

Date: 6-18-57

Radial Plot or Stereoscopic

J. L. Harris

Date: 7-2-57

Control extension by (III):

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III):

D. N. Williams (rough draft)

Date: 9-4-57

J. Amstutz C. C. Harris (scribing) (stick-up) 2-21-58

Photogrammetric Office Review by (III): J. E. Deal

Date:

9-15-58

Elevations on Manuscript

Date:

checked by (II) (III):

FORM **181c** (4-23-54)

### DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Camera (kind or source) (III): C&GS - 9-lens - focal length 8.25 inches

		PHOTOGRAPHS (I	li)	Water level of nool
Number	Date	Time	Scale	Water level of pool
46190	9-26-54	13:50	1:15,000	340 ft. above M.S.L.
46197	11	14:00	п	11

Tide (III)

Reference Station: Not applicable

Subordinate Station: Subordinate Station:

Washington Office Review by-(IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by. (IV):

Land Area (Sq. Statute Miles) (III): 24

Shoreline (More than 200 meters to opposite shore) (III): 6
Shoreline (Less than 200 meters to opposite shore) (III): 2

Control Leveling · Miles (II):

Number of Triangulation Stations searched for (II): 9

Number of Triangulation Stations Seatched for (II): 9

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 4

Number of Temporary Photo Hydro Stations established (III): 3\*

Date: May 1957

Data: 1959-18

|Ratio of | Mean | Spring

Range

Ranges,

Date: May 1959

2

Date:

Identified:

identified:

Remarks:

\* These stations have topo names and are of topo station accuracy. Forms 524 were not submitted in accordance with letter clarifying instructions.

Recovered: 8

Recovered:

COMM- DC- 57842

### Summary to accompany shoreline manuscript T-10422

This is one of 18 shoreline surveys of Project PH-63 (27020). The group of surveys is located in the States of Oregon and Washington and covers the portion of the Columbia River from McNary Dam northward to Pasco. Subject manuscript is in the vicinity of Finley in Washington.

The project originated with instructions of March 1956 and was designed in support of hydrographic surveys for the construction of new nautical charts. The Portland Photogrammetric Office accomplished the field work (recovery and establishment of control and field inspection) as well as office compilation during 1956-57 from photography of Sept. 1954 and June 1956. The final compilation manuscript to be used for the reproduction of file copy is the result of an adequately scribed sheet.

There are no previously registered topographic surveys of subject area and limited coverage of maps of other agencies is inadequate.

A cronar film positive at the compilation scale of 1:15000 and the Descriptive Report will be registered and filed in the Bureau Archives.

May 1959

### FIELD INSPECTION REPORT

(1957 Season)

Map Massacripte T-10386, T-10421 thru T-10424

and T-11317

Project Ph-63

### 2. Areal Field Impostica:

The field inspection of this portion of the project was inspected on mine-lens photographs furnished by the Coast and Geodetic Survey. While some of the prints lack the desired amount of contrast, the photographs were of sufficient clarity to interpret and denote the images of the physical features. The inspection of the photographs was conducted from a motor vehicle when possible and by small boat or on foot where vehicular travel was unfeasible.

The area can be considered semi-arid. Hear the morthern limits of the project area, some of the land is under cultivation, watered by an extensive irrigation system.

The Columbia River flows southward through the area. Hear the town of Unatilla, Oregon, is HeMary Daw that impounds the Columbia River to form a reservoir. This reservoir will be referred to as McMary Pool, as an official name has not been designated for this feature. The area is served by a heavy duty two lane highway (U.S. 395/410) that extends north-south paralleling the Columbia River along its east shore. Three railroads, the Union Pacific Railroad, the Spokane, Portland and Seattle Railway and the Northern Pacific Railway operate through the area.

Tug and barge traffic as well as pleasure eraft ply the waters of McMary Fool. Portions of the poal serve as State Game Mange and Wildlife Management Areas.

Sacajawa State Park, situated on the east shore of Hellary Peel at the mouth of the Smake River, near the town of Passe is the only state park in the area. City parks in Passe and Kemmewisk have been denoted on field photographs.

### 3. Norisental Control:

Pive new supplemental, horisontal control stations were established by triangulation methods, stations DRIFT 1957, TARGET 1957 and WALLULA DEPOT, U.P.R.R. ELEVATED TARE 1957. Those stations were necessary to falfill photogrammatric requirements.

Stations PASCO, STATION KORD, RADIO MAST 1957 and PASCO, STATION KALE, RADIO MAST, CENTER ONE OF THREE 1957 were also located as they are of landmark value. A systematic search was made for all listed horisontal control stations in the project area.

### 4. Vertical Control:

Vertical control for use by stereoscopic instruments was not required.

One bench mark, established by the Coast and Geodetic Survey was recovered and photo-identified to serve as a topographic station.

### 5. Contours and Drainage:

Contours not applicable. The drainage was indicated on field photographs. The drainage pattern is generally visible due to the lack of woodland cover. In some of the large canyons, the images of the dry, intermittent stream beds appear on the photographs. Except for the Columbia River, Snake River and the Walla Walla River the drainage in this area is mostly intermittent. The main trunk system of the irrigation canals, ditches and pipelines has been indicated on the field photographs.

### 6. Woodland Cover:

The area is almost devoid of woodland cover, with the exception of Willow, locust and similar deciduous trees that flourish in clumps along the rivers and irrigation canals. The rest of the uncultivated terrain is generally covered with sage brush and wild grasses adapted to this type of country.

### 7. Shoreline and Alongshore Features:

A water surface elevation of 340 feet above mean sea level was established by the Corps of Engineers and is maintained at the face of McNary Dam as the normal pool level. This is the level of the pool that appears on the nine-lens photography and is the accepted mean high-water line.

The low water line was not verified in the field. Due to the level of McNary Pool at the time of field inspection, this feature was flooded. The Project Instructions require this feature to be delineated from Corpe of Engineers photography taken when the seel was at a lower surface level. Small bodies of water that connect to McNary rool and whose water surface elevations are controlled by the McNary Pool have been termed pools, other small bodies of

water not normally influenced by McNary Pool are denoted as ponds.

From the mouth of the Walla Walla River northward, the area east of the Columbia River (McNary Pool) is gentle, rolling, uncultivated lands, except near the community of Burbank Heights, where an irrigation project makes mixed farming possible. On the west side of McNary Pool, opposite the mouth of the Walla Walla River, the precipitous bluffs meet the Pool; proceeding northward the bluffs slowly recede from the Pool's edge and give way to gentle, rolling lands, that northward from the vicinity of Hover are cultivated. Water necessary for cultivation is supplied by an irrigation system.

There are few piers, wharves or landings along the Pool. At Wallula Depot, there is a basin with wharves; at East Pasco on the Snake River upstream from the mouth are small wharves serving the petroleum and aqua ammonia storage tank sites. There are two chemical plants on the west side of the Pool south of Kennewick. Grain elevators are located at Pasco and Kennewick with facilities to load or unload river barges or railroad cars.

There are five railroad bridges, three highway bridges and two power line crossings in the area. Clearances of the features will be described under Item 12, Other Interior Features.

### 8. Offshore Features:

Except for a few small islands and rocks, the area appears relatively free of offshore features.

### 9. Landmarks and Aids:

Significant land marks for nautical charts will be described on form 567.

A system of lighted fixed aids, floating aids and daybeacons have been erected and are being maintained along the Columbia River (McNary Pool). The fixed aids were located by either photogrammetric, triangulation or traverse methods.

### 10. Boundaries, Monuments and Lines:

Only one state, Washington, is involved in this area.

The boundaries of Sacajawea State Park were not determined as the limits of the park was not marked by recoverable monuments. The three involved counties, Benton, Franklin and Walla Walla, share common boundaries formed by the Columbia and Shake Rivers.

### 11. Other Control:

Twenty one marked, recoverable topographic stations and twenty three un-monumented, recoverable photo-topo stations were established. All of the above stations are along the shores of the Columbia or Snake Rivers. One Corps of Engineers triangulation station and eleven Corps of Engineers Sedimentation Range stations were recovered to serve for control of hydrographic surveys in the delta of the Walla Walla River.

The following are the marked, recoverable topographic stations established.

T-10386 - None

T-10421 - BM X 2 RESET, OVER, SACAJAWEA LIGHT, SPAN, APEX, REPR RADIO STATION MAST, CHOW

T-10422 - DAYBEACON, JUNCTION LIGHT

T-10423 - BARB, ITEM, WORK, RANGE 1 FRONT LIGHT, RANGE 1 REAR LIGHT

T-10424 - RANGE 2 FRONT LIGHT, RANGE 2 REAR LIGHT, TRAL, B 336-2, CARP, HOVER LIGHT, GRIP

T-11317 - None

The names of the un-monumented photo-tope stations will be listed under Notes to the Hydrographer.

### 12. Other Interior Features:

Highway and roads were classified on field photographs as described under section 5411, Topographic Manual. Railroads were denoted on the field photographs.

Clearances for bridges and power line crossings are listed below:

Snake River Railroad Bridge, swing bridge

Horisontal clearance, 152 feet Vertical clearance - open 67.5 feet closed 13.5 feet

Snake River Highway Bridge, fixed span

Horisontal clearance, 426 feet Vertical clearance, 62 feet Old Pasco-Kennewick highway Bridge, fixed span

Morisontal clearance, 421 feet Vertical clearance, 52 feet

worthern Pacific Emilway Eridge, over Columbia River, lift span

Horizontal clearance, 293 feet Vertical clearance - open, bb feet closed, 15.8 feet

union Pacific Lailroad Bridge, over Columbia River, swing bridge

Horizontal clearance, 122 feet Vertical clearance - open, 68 feet closed, 11 feet

Railroad Bridge, near south end of Eurbank Blough, fixed span

Nortical clearance, 33 feet Vertical clearance 10.8 feet

Highway Bridge, near south end of Burbank Clough, fixed span

Horisontal clearance, 17.8 feet Vertical clearance, 13 feet

Exilroad Bridge, near Zangar Junction, over Walla Walla River, fixed span

horizontal clearance, 92 feet Vertical clearance, 49 feet

Power Line Crossing, over Columbia River near Sacajawsa State Park

Vertical clearance, 103 feet

rower Line Crossing over Columbia River at Clover Island

Vertical clearance, 52 feet

Approved:

Respectfully submitted:

V. Halph Sobieralski LCDR, CAGS Officer-in-Charge

Robert B. Melby Carto. Survey Aid Unit Chief PHOTOGRAMETRIC PLOT REPORT

Radial Plot "C"

Map Manuscripts T-9120,

T-10420 thru T-10423 and T-11316

### 21. Area Covered:

This radial plot covers the shorelines of the Columbia River to an interior depth of about 3 miles from Attalia, hashington upstream to Esteman Island and the shorelines of the shake River to an interior depth of 3 miles from the Columbia River upstream to the lee Harbor Dam. It comprises manuscripts T-91.0, T-10420 thru T-10423 and T-11316.

### 22. latrod:

The control extension was accomplished by the hand templet radial line plot method using accomplished made from nine-lens photographs taken in 1954 and 1956. Imptographs were prepared by the usual methods and master calibration templets No. 43497 and No. 48340 were used respectively for the 1954 and 1956 photography when correcting for transforming errors and paper distortion. Refer to letter, 73-makl, dated 9 August 1956, Subject: "Compilation - Projects 27260, Charleston, S. C. and 7020, Upper Columbia River, Oregon", relative to the use of calibration templet No. 48340 (1955) for 1956 photography.

Have 2' x 3' sheets of Mylar material, in each of which was ruled a polyconic projection of its area coerising 3 minutes -45 seconds of latitude and 7 minutes - 30 seconds of longitude at a scale of 1:15,000 were furnished for work sheets. The Lambert State grids of Washington were also ruled on these sheets. The herizontal control stations falling on each of the respective manuscripts were plotted and verified. The fine sheets were joined with clear cellulose tupe. The tesslets were oriented to the identified control directly on the joined work sheets and fastened with masking tape. After all templets were satisfactorily oriented and fastened the entire radial plot was turned fack down and the locations of pass points and principal points were pricked and indicated by circles on the reverse sides of the ork sheets using Craftint So. III red plastic ink. The plot with then turned face up and the templets were dismantled. The photogrammetric points falling in the margins at the junctions of according sheets were transferred and then the joined work sheets re dismantled.

There were more than an adequate number of identified horisontal control stations available and all were satisfactorily held in this radial plot. The results were excellent and well within the limits of horizontal accuracy requirements.

### 23. Adequacy of Control:

The identification of horizontal control stations was satisfactory and more than an adequate number were available.

### 24. Supplemental Data:

There were topographic maps, compiled by the Corps of Engineers, U. S. Army, Walla Walla District, available which covered the area of this radial plot. These were not needed to supplement the identified horizontal control stations, but they were used during the compilation of planimetric details for verification of certain features for which state coordinate positions of the U. S. Engineers were available.

### 25. Photography:

The photography was adequate. The P.M.A. ratio prints were not needed to supplement the nine-lens photography.

Approveds

Respectfully submitted:

V. Ralph Sobieralski LCBR, C&GS Officer-in-Charge J. Edward Deal Cartographer CAGS

FORM **164** (4-23-54)

MAP T- 10422

U.S. DEPARTMENT OF COMMERCE

CONTROL RECORD

COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) 14 None FORWARD DATE 4-16-57 SCALE FACTOR DISTANCE FROM GAJD OR PROJECTION LINE IN METERS (14.26.5)(1246.1)(. 213.9) (1080.9)(1751.6)(1580.3)(1186.2) 922.7) (1238.6)(663.9) (1080.9)(1145.4)(9.808) 202.8) 950.8) (0.886) (1535.7)(1048.8)(BACK) N.A. 1927 - DATUM FORWARD 101.0 272.2 365.2 614.0 594.0 771.6 6.04 205,9 7.999 299.0 316.9 238,7 426.1 141.4 1044.0 337.1 1638.7 1084.3 CHECKED BY: D.N.W. & L.L.G. DATUM SCALE OF MAP 1:15,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) FORWARD 03,271 08,817 50,545 17,013 09,599 06.594 13,941 10,264 21.584 53.074 33,812 LONGITUDE OR x-COORDINATE 11,122 LATITUDE OR U-COORDINATE PROJECT NO. Ph-63 DATE 4-16-57 S 8 8 8 8 80 8 ព Я 8 d 5 02 ្អ 8 긔 60 7 119 119 119 119 97 94 97 119 91 119 9†7 917 119 119 119 97 4 94 DATUM N.A. 1927 = = Ξ = = = = E SOURCE OF INFORMATION 1275 1276 G-5257 P 1275 (INDEX) Field P 581 Field Comp Comp. = = а == Ĺz, COMPUTED BY. J.L.H. LIGHT, 1957 (Topo) PHILLIPS PACIFIC CHEMICAL CO. LIGHT LIGHT 1957 (Topo) (Topo) DAYBEACON 1957 HANSON (USE) 1950 1 FT.= .3048006 METER UNION(USE)1950 BALL (USE)1950 RANGE 1 FRONT RUIN(USE)1950 JUNK(USE)1942 STATION RANGE 1 REAR

### COMPILATION REPORT

### Map Manuscript T-10422

### Project Ph-63

### 31. Delineation:

The compilation and drafting were accomplished as follows:

- (a) Graphic compilation in ink on work sheets having projections ruled in Washington
- (b) Office review.
- (c) Transfer of compiled planimetry and projections to yellow coated scribe sheet by "Watercote" methods.
- (d) Scribing in negative of compiled details and projections.
- (e) Reproduction of scribed features on Cronarflex material positive.
- (f) Stick-up of symbols and type.
- (g) Final office review and inspections by Officer-in-Charge.

### 32. Control:

Refer to Items 22 and 23 of the Photogrammetric Plot Report which is included in this Descriptive Report.

### 33. Supplemental Data:

Prints of maps and plans used to supplement the photographs and field inspection data are as follows:

- (a) General Highway Map, Walla Walla County Scale 1 In. = 1 Mi.
- (b) General Highway Map, Benton County Scale 1 In. = 1 Mi.
- (c) Benton County Road Map Scale 6 In. = 1 Mi.
- (d) Walla Walla District, Corps of Engineers, Nov. 1, 1954
  Scale 1" = 333.3', "Relocations & Section Corner Ties".

MDR-1-12/20	Sheet 25
MDR-1-12/37	Sheet 27
MDR-1-12/31	Sheet 32
MDR-1-12/38	Sheet 37
MDR-1-12/34	Sheet 38

Numerous points of planimetry that appear on T-10422 were located by triangulation ties during the survey listed under (d). Lambert Coordinates were furnished by the Corps of Engineers for these points and they were plotted on the manuscript. It was found that the graphically compiled planimetry is in excellent agreement with all planimetric detail located by triangulation ties by the Corps of Engineers.

### 34. Contours & Drainage:

Contours are not applicable. Drainage was delineated by field inspection and refined by office examination of the photographs supplemented by reference to the U. S. Geological Survey quadrangles of the area.

### 35. Shoreline and Alongshore Details:

The shoreline of the nine-lens photographs taken on 9-26-54 when the pool level was 340 feet above mean sea level has been shown. Except where clarification was needed no field inspection was made of the shoreline.

The approximate low-water line was compiled from Corps of Engineers, U. S. Army photographs taken on 13 October 1953 when the water level of the pool was about 324 feet above mean sea level.

### 36. Offshore Details:

None.

### 37. Landmarks and Aids:

Form 567 is submitted for these features.

There are no floating aids within the limits of this manuscripts.

### 38. Control for Future Surveys:

Four Forms 524 are submitted for recoverable topographic stations.

Three photo-hydro stations of recoverable topographic

station accuracy were located.

Refer to Item 49, "Notes to the Hydrographer" for the list of names of the recoverable topographic stations and for descriptions of the photo-hydro stations.

### 39. Junctions:

Satisfactory junctions have been made with T-10421, T-10423 and T-11317.

### 40. Horizontal and Vertical Accuracy:

There are no areas believed to be of sub-normal horizontal accuracy. Vertical accuracy is not applicable.

### 46. Comparison with Existing Maps:

The U. S. Geological Survey quadrangle maps of the area are obsolete for comparison with this shoreline manuscript because they were made previous to the flooding of the McNary Pool.

### 47. Comparison with Nautical Charts:

There are no nautical charts of the area. Recent hydrographic surveys by the Corps of Engineers were not available for comparison purposes.

Approved:

V. Ralph Sobieralski

LCDR, C&GS

Officer-in-Charge

Respectfully submitted:

J. Edward Deal

J. Edward Deal Cartographer

C&GS

### 48. Geographic Names:

The geographic names shown on this manuscript are not final. Refer to the Geographic Names Report, Project Ph-63, dated 6 June 1958.

The verified and recommended names are:

Columbia River
Columbia Irrigation District Canal
Finley
Foundation Island
Hedges
Northern Pacific
South Highlands
Spokane, Portland & Seattle
Union Pacific
Villard Pond

Lava Wallula (Decision of 1958)

Namas approved 5-16-59

L. Hear

### 49. Notes to the Hydrographer:

The shoreline on this namuscript shown with a full line is at a water level of 340 feet above M.S.L. or normal pool level.

The approximate low-water pool level at 325 feet above M.S.L. is shown with a dotted line and was compiled from single lens photographs taken in 1953 by Corps of Engineers when the pool level was 324/ feet.

Forms 524 are submitted for recoverable topographic stations namely:

KEPR Radio Station (Center one of three radio masts)1957 DAYBEACON 1957 RANGE 1 FRONT LIGHT 1957 RANGE 1 REAR LIGHT 1957

Photo-hydro stations located with recoverable topographic station accuracy and for which Forms 524 were not required are:

Name	Photo. No.	Description
Topo 21	46197	Center of a 2' x 7' c 6' high silver colored switch box.
Topo 121	46189	Drill hole in concrete curbing
Торо 122	46197	North corner of a 15 ft. square pump house.

### Review Report of Shoreline Manuscript T-10422 May 1959

### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

There are no registered topographic surveys of this area.

### COMPARISON WITH MAPS OF OTHER AGENCIES: 63.

PASCO, WASH., 1:125000, Edition of 1917, U. S. Geological Survey

This topographic quadrangle from surveys of 1904 and 1914 is the only coverage of subject area and inadequate for detailed comparison.

### 6li. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

None!

### 65. COMPARISON WITH NAUTICAL CHARTS:

None !

### 66. ANDEQUACY OF RESULTS AND FUTURE SURVEYS:

T-10422 has been compiled in accordance with project instructions and no deficiencies in adequacy or accuracy are indicated.

Review & Drafting Section Photogrammetry Division

Charts Division

Reviewed

Chart Branch Chief, Nautical

Chief, Photogrammetry Division

Chief

Coastal Surveys Division

U. S. COAST AND GEODETIC SURVEY

T-10422

## NONFLOATING AIDS **ORTITINDMERKENIOR**

STRIKE OUT ONE	
TO BE CHARTED	TANNEL PARTIE DE LA PRESENTA

Form 567 April 1945

Portland, Oregon

15 Sept.

19 58

I recommend that the following objects which have (intercept,) been inspected from seaward to determine their value as landmarks be charted on (Karata Capana) the charts indicated.

J. E. Deal The positions given have been checked after listing by \_

								,	TOTAL PART	" Inthis Porter and "	∦	for fant	categod rarry.
STATE	NOSCINETA			i :		POSITION			METHOD			TRAHS	
ļ				LA.	LATITUDE *	LON	LONGITUDE *		LOCATION	DATE			CHARTS
CHARTING	DESCRIPTION		SIGNAL		" " D. M. METERS	•	"D. P. METERS	DATUM	SURVEY No.	LOCATION	HARSC	H8730 Ç	
	Range 1 Front Light	(14,85)	,	80 94	13.80	119 00		H.A. 1927	Travers T-10422	1957		-	New Chart
	Range 1 Rear Light	(1,68,1)		80 97		119 80		ſ	=	#			
	Phillips Pacific Chemical Company Light		ı	60 94		m <sub>9</sub> 00		Œ	F1875	1958			
	Daybeacon			16 10		119 91	40.9	=	Traverse T-10422	1957		<u>-</u>	
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												<u> </u>	
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												<u> </u>	
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

### OF COMMERCE DEPARTME

U. S. COAST AND GEODETIC SURVEY

# MOMERTO METAGEMENT PARTICIAL LANDMARKS FOR/CHARTS

TO BE CHARTED TOOREGOISTENING

STRIKE OUT ONE

Portland, Oregon

I recommend that the following objects which zeros (have not) been inspected from seaward to determine their value as landmarks be charted on (grantary the charts indicated.

The positions given have been checked after listing by J. B. Desl

STATE	MASHIBUTOR				POSITION					TNA	
			3	LATITUDE #	LON	LONGITUDE *		LOCATION	DATE	IOSE CH	CHARTS
CHARTING	DESCRIPTION	SIGNAL	0	D. M. WETERS	•	D. P. METERS	DATUM			HSKI	
TOWER	KEPR Radio Station, Centor Oner of Three Endio Maste 340 (655)		01 94		n9 33	<del> </del>	H.A. 1927	Fhote 1-10622	1957		
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

### NAUTICAL CHARTS BRANCH

### SURVEY NO. <u>T-10422</u>

### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
-			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			<u> </u>

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.