10424

orig

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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-10424

LOCALITY

State Washington

General locality Columbia River

Locality Wallula

1957

CHIEF OF PARTY

V. Ralph Sobieralski
Portland Photogrammetric Office

LIBRARY & ARCHIVES

JUN 6 1960

сомм- вс 61300

10424

DESCRIPTIVE REPORT - DATA RECORD

T = 10424

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 & Office)

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

Graphic

Manuscript Scale (III): 1:15,000

Stereoscopic Plotting Instrument Scale (ill):

Scale Factor (III):

None

Date received in Washington Office (IV): NIG 21

Nate reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 25 June 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N.A. 1927

Vertical Datum (III):

-Mean-sea-level-except as follows:--Elevations-shown as (Q5) refer to-mean high water-Elevations shown as (5) refer to sounding datum-tion 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): BARREN (USE) 1942 (WASH)

Lat.:

460 051 34.478"

Long.:

118° 58' 34.146"

Adjusted X

1064.5m(788.0m)

733.5m(555.4m)

Unadjusted

Plane Coordinates (IV):

State:

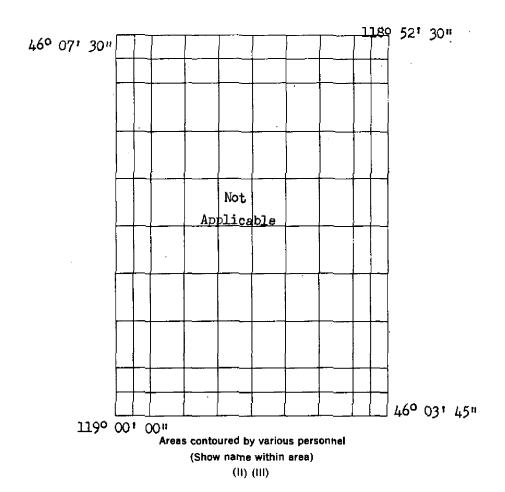
Zone:

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.



Elevations on Manuscript checked by (II) (III):

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): R. B. Melby Date: Summer 1957 Planetable contouring by (II): Date: Date: Completion Surveys by (II): 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 field 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: Date: April 1957 Control plotted by (III): J. L. Harris Control checked by (III): J. E. Deal Date: April 1957 Date: Radial Plot or Stereoscopic J. L. Harris 30 April 1957 Control extension by (III): Planimetry Date: Stereoscopic Instrument compilation (III): Contours Date: Date: 11 June 1957 Manuscript delineated by (III): L. L. Graves, Compilation L. L. Graves, Scribing 19 June 1957 C. C. Harris, Stick-up 16 Sept. 1957 Photogrammetric Office Review by (III): J. E. Deal Date: October 1957

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

		PHOTOGRAPHS (III)	Wata	w Jarral of Dool
Number	Date	Time	Scale	-Stege	r Level of Pool
46187 & 46188	9-26-54	13:47	1:15,000	340 ft.	above M.S.L.
46194	11	14:10	ti		ŧI
46206 & 46207	. 11	14:29	lt .	-	n
54394 & 54395	6-11-56	08:28	Ħ	340.4 ft.	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): 22

Shoreline (More than 200 meters to opposite shore) (III): 10

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 11

Recovered:

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Ratio of Mean | Spring Ranges | Range Range

Date:

Date:

Date:

Date:

Identified: 5

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:

COMM- DC- 57842

Summary to accompany shoreline manuscript T-10424

This is one of eighteen shoreline surveys of Project PH-63 (27020). The group of surveys covers a portion of the upper Columbia River effected by the McNary Dam and extends from Oregon into the State of Washington. The specific area covered by subject survey is of Wallula and vicinity, Washington.

Instructions for the project of March 1956 were sent to the Portland Photogrammetric Office. The field work-recovery and establishment of control and field inspection-was done during the summer of 1957; the radial plot and compilation also in 1957 from nine-lens aerial photography of Sept. 1954 and June 1956. The roughly compiled manuscript was later scribed by the same field office and an acceptable medium for the reproduction of file copy submitted to the Washington Office in Aug. 1958.

There is only one previous survey (from 1915) of subject area and this has become obsolete (see Wallula, Wash., 1:125000, U. S. Geological Survey, Ed. of 1918).

A cronar film positive at the compilation scale of 1:1500 and the Descriptive Report will be registered and filed in the Bureau Archives.

June 1959

FIELD INSPECTION REPORT

(1957 Season)

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

and T-11317

Project Ph-63

2. Areal Field Inspection:

The field inspection of this portion of the project was inspected on nine-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 beat or on foot where vehicular travel was unfeasible.

The area can be considered semi-arid. Near the northern 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 Unstilla, Oregon, is HeMary Dam that impounds the Columbia River to form a reservoir. This reservoir will be referred to as HeMary Pool, as an official name has not been designated for this feature. The area is served by a heavy duty two lame 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 Morthern Pacific Railway operate through the area.

Tug and barge traffic as well as pleasure eraft ply the waters of Hellary Pool. Portions of the pool serve as State Game Range and Mildlife Management Areas.

Sacajawa State Park, situated on the east shore of Mellary Peal at the mouth of the Snake River, near the town of Pasce is the only state park in the area. City parks in Pasco and Kennewick have been denoted on field photographs.

Horisontal Control:

Five new supplemental, horisontal control stations were established by triangulation methods, stations DRIFT 1957, TARGET 1957 and WALLULA DEPOT, U.F.R.R. ELEVATED TARK 1957. These stations were necessary to fulfill photogrammetric requirements.

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 care.

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 Aide:

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 Snake 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 Corpe 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 - IM X 2 RESET, OVER, SACAJAWEA LIGHT, SPAN, APEX, REPR RADIO STATION MAST, CROW

T-10422 - DAYBEACON, JUNCTION LIGHT

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

T-1042A - RANGE 2 FRONT LIGHT, RANGE 2 REAR LIGHT, TEAL, B 336-2, CARP, HOVER LIGHT, GRIP

T-11317 - Nome

The names of the un-mornmented 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 Nanual. 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 ranco-mannewick mighway ariage, flora span

Horizontal clearance, Lil feet Vertical clearance, in feet

Northern Pacific Wilkey Fridge, over Columbia Miver, lift span

horisontal clearance, 293 feet Vertical clearance - open, to feet closes, 15.8 feet

Union Pacific Emilrosi Pridge, over Columbia River, Using bridge

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

hailroad Bridge, near south end of burbank clough, fixed span

iorisontal clearance, 33 feet Vertical clearance 10.8 feet

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

Horizontal clearance, 17.8 feet Vertical clearance, 13 feet

Lailroad bridge, near Langar Junction, over Halla walla liver, fixed span

norizontal clearance, 92 feet Vertical clearance, 49 feet

rower line Grossing, over Columbia River near Sacajawes State Park

Vertical clearance, 103 feet

cower Line Crossing over Columbia River at Clover Island

Vertical clearance, 52 feet

...proved:

Respectfully submitted:

....lph Sobieralski Nolm, Oxfo Lilicer-in-Charge

hobert B. Helby Carto. Survey Aid Unit Chief

PHOTOGRAMMETRIC PLOT REPORT

Radial Plot "B"

Map Manuscripts T-10424, T-10425,

T-10386, T-11317 and T-11318

Project Ph-63

21. Area Covered:

This radial plot covers the shorelines of the Columbia River to an interior depth of about 3 miles, from the Washington-Oregon boundary upstream to Attalia, and the shorelines of the Walla Walla River to an interior depth of one mile, from the Columbia River upstream to the Northern Pacific Railroad bridge. It comprises map manuscripts T-10424, T-10425, T-10386, T-11317 and T-11318.

22. Method:

The control extension was accomplished by the hand templet radial line plot method using acctate, templets made from nine-bens photographs taken in 1954 and 1956. Photographs 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-mkl dated 9 August 1956, Subject: "Compilation - Projects 27260, Charleston, S. C. and 27020, Upper Columbia River, Oregon", relative to the use of calibration templet No. 48340 (1955) for 1956 photography.

For each of the five manuscripts in this radial plot a polyconic projection was furnished of the respective areas ruled on 2' x 3' sheets of Mylar material. Each of the polyconic projections for T-10424 and T-10425 covered 3 minutes 45 seconds of latitude and 7 minutes 30 seconds of longitude. For T-10386, T-11317 and T-11318 each covered 3 minutes 45 seconds of latitude and longitude. The Lambert State grids of Oregon and Washington were also ruled on T-10424 and T-10425. For T-10386, T-11317 and T-11318 the Lambert State grid of Washington only was added. The horizontal control stations falling on each of the respective manuscripts were plotted and verified. The five sheets were joined together by matching at the neat line junctions and then fastened with clear cellulose tape. The templets 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 face down and the locations of pass points and principal points were pricked and indicated by circles, on the reverse sides of the work sheets using Craftint No. 111 red plastic ink. The plot was then turned face

up and the templots were dismantled. The photogrammetric points falling in the margins at the junctions of adjoining sheets were transferred and then the joined work sheets were dismantled.

There were more than an adequate number of identified horizontal 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.

Approved:

V. Raĺph Sobieralski

LCDR, C&GS

Officer-in-Charge

Respectfully submitted:

J. Edward Deal Cartographer

C&GS

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

PROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 None (BACK) FORWARD SCALE FACTOR 788.0) 555.4) (1780.9)925.9) 993.6) 383,4) (2250.6)595,3) (1553.9)(758,1) 341.6) (1052,4)(BACK) N.A. 1927 - DATUM FORWARD 733.5 531.3 947.2 926.7 2452.7 71.7 294.6 237.0 797.4 298:7 1064.5 1469,2 DATUM SCALE OF MAP 1:15,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (7384,01)(1953, 15)(BACK) FORWARD 2615,99 8046.85 44.098 30,012 LONGITUDE OR x COORDINATE 34.146 34.478 629,60 24.724 13,720 47.584 11,030 LATITUDE OR y-COORDINATE 02,321 PROJECT NO. Ph-63 272,615.99 2,408,046,85 58 7 54 S 8 5 9 53 04 57 118 118 118 118 94 118 97 9 97 DATUM N.6. 1927 COMPUTED BY. J.L.H. & D.N.W. ⊭ = = Ξ = SOURCE OF P 1278 G 5257 1277 P 584 (INDEX) WALLULA DEPOT UPRR Field Comp. Ξ Δ, = MAP T. 10424 HUNTS (USE 1950) JIGG (USE) 1950 ELEV. TANK 1957 1 FT.= .3048006 METER STATION BARREN (USE) R 3 RA (USE) 1942 (WASH) DRIFT 1957 1942

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

DATE 3-27-56 & 9-19-57

CHECKED BY. J. E.D. & L.L.G.

DATE 4-11-57

COMPILATION REPORT

Map Manuscript T-10424

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 Van Dyke grained 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:

This office was furnished a set of prints of a survey made by the Corps of Engineers, U. S. Army, Walla Walla District of an area behind the McNary Dam previous to flooding. Several points of planimetry that appear on T-10425 were located by triangulation ties during this survey and for these Lambert State Coordinates were furnished. They were plotted on the manuscript and found to be in excellent agreement with the graphically compiled planimetry.

Prints of this survey covering the area of T-10424 are submitted. They are drawings MDR-1-12/16, MDR-1-12/21 Sheet No. 17, MDR-1-12/17 Sheet No. 20 of McNary Lock and Dam, Columbia River, Oregon and Washington - Relocations and Section Corner Ties - Walla Walla District, Corps of Engineers, 1 November 1954.

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:

Forms 567 are submitted for these features.

38. Control for Future Surveys:

Seven Forms 524 for recoverable topographic stations located by photogrammetric methods are submitted.

Three photo-hydro stations of recoverable topographic station accuracy and marked by winged drill-holes, chiseled crossed, etc. were located.

These stations are listed under Item 49, "Notes to the Hydrographer".

39. Junctions:

Satisfactory junctions have been made with T-10423, T-10425, T-11317 and T-10386.

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



The geographic names shown on this manuscript are not final. They were obtained from the geographic name inspection made by the field unit. The verified and recommended names shown are:

> Attalia Badger Island Columbia River Hover Wallula

Wallula Depot Wallula State Park Walla Walla River

Part of Walled Walla Walla - aks Wallak (Decision of 1958) Hames approved 5-1459 L. Heck



49. Notes to the Hydrographer:

The shoreline on this manuscript 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 and photographs taken in 1953 by Corps of Engineers when the pool level was 324/ feet.

Form 524 are submitted for recoverable topographic stations namely:

Range 2 Front Light 1957 Range 2 Rear Light 1957 Hover Light 1957 CARP 1957 TEAL 1957 ALIA 1957 B-336-2 1957

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

Name	Photo No.	Description
TOPO No. 14	46207	Center small silver colored switch house 6' x 10' x 8' high.
TOPO No. 119	46187	Drill hole in 6 ft. boulder, 12 ft. above pool level, "Topo 119" painted on boulder.
TOPO No. 120	46188	Center of cupola on Riverview School-house.

Review Report of Shoreline Manuscript T-10424 June 1959

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

There are no registered topographic surveys of subject area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

WALLULA, WASH., 1:125000, Edition of 1918, U. S. Geological Survey

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

None!

65. COMPARISON WITH NAUTICAL CHARTS:

None. 1

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

T-1042# has been compiled in accordance with project instructions and meets the requirements of adequacy and accuracy.

Josef J. Streller

Approved by:

Chief, Review & Drafting Section

Photogrammetry Division

Chief; Nautical Chart Branch

Charts Division

Chief, Photogrammetry Division

VE May 6.

Chief//Coastal Surveys Division

I OF COMMERCE DEPARTME

U. S. COAST AND GEODETIC SURVEY

1-10424 NONFLOATING AIDS CHEMITANDMENTED FOR CHARTS

TO SERVICE THE PROPERTY OF TO BE CHARTED

STRIKE OUT ONE

Pasco, Washington

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

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				Ľ	LATITUDE*	LONC	LONGITUDE *		LOCATION	DATE			CHARTS
CHARTING	DESCRIPTION		SIGNAL	٠ ،	D.M.METERS	0	D. P. METERS		SURVEY No.	ĭ	NARBOI ROHENI	A P	CTED
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	Bange 2 Bear Light	(1485.6)		0 947	0) T. 8	118 59	12.4	a	•	o	-		
	Hover Light	(1684)		46 0	or 39.5	116 57	93.9	c					
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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. This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

* TABULATE SECONDS AND METERS

OF COMMERCE DEPARTME

U. S. COAST AND GEODETIC SURVEY

T-10424 NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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CHARTED	
OBEC	MOVEMENT OF

Pasco, Washington

AN

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The positions given have been checked after listing by

I recommend that the following objects which have (Contents of the properties) been inspected from seaward to determine their value as landmarks be charted on (kinkents/king) the charts indicated.

J. E. Deal

								V. Kalph	V. Ralph Soluteralskichief of Party.	Sec.	tef of Party.
, i					POSITION					TAAH	CHVEL
# C	WASHINGTON		- LATI	LATITUDE*	LONG	LONGITUDE *		LOCATION	DATE	0 B CH	CHARTS
CHARTING	DESCRIPTION	SIGNAL		" " D. M. METERS	0	" D. P. METERS		BURVEY No.	LOCATION	KSMI	
TARK	TARE, Elevated (U.P.B.R.)		90 97	71.7	116 54	44.098 947.2	B.A. 1927	Triang- ulstion	1957		
								<u> </u>	1		
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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

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
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			Before After Verification and Review
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			Before After Verification and Review
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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.

M-2168-1