



DECOMMISSIONING AND TRANSFER  
OF  
USS ARGONAUT (SS475)  
COMMISSIONING OF HMCS RAINBOW (SS75)  
CEREMONIES  
AT  
DESTROYER - SUBMARINE PIERS  
U. S. NAVAL STATION  
NORFOLK, VIRGINIA  
2 DECEMBER 1968



The Ceremonies and Service  
Decommissioning USS ARGONAUT  
Commissioning HMCS RAINBOW



## USS ARGONAUT (SS-475)

HMCS RAINBOW is the former United States Navy Submarine ARGONAUT (SS475). The ARGONAUT was built by the Portsmouth Navy Yard, Portsmouth, New Hampshire. Her keel was laid 28 June 1944, and she was launched 1 October of the same year, sponsored by Mrs. Allen R. McCAN, wife of Rear Admiral (then Captain) A. R. McCAN. The boat was commissioned 15 January 1945, with Lieutenant Commander John S. SCHMIDT, USN, in command.

The ARGONAUT arrived in Pearl Harbor, Hawaii, on 11 June 1945, and departed on 28 June for her first and only war patrol. While enroute to her patrol area, ARGONAUT rescued a downed Marine Corps fighter pilot off the southern tip of Kyushu, Japan. During her patrol, conducted in the Formosa Straits and the Yellow Sea, ARGONAUT bombarded an enemy radio direction finder off the coast of Korea and was also credited with sinking a 25-ton cargo Junk. USS ARGONAUT earned one Battle Star on the Asiatic-Pacific Area Service Medal for participation in the Third Fleet Operations against Japan between 10 July and 15 August 1945.

The ARGONAUT ended her war patrol at Guam on 21 August 1945, and was assigned to Submarine Division THREE FOUR TWO. She departed Guam on 1 September 1945 and proceeded to Tompkinsville, New York, arriving 4 October, 1945. After a refit, ARGONAUT was assigned to Submarine Squadron SIX in Panama, and later in 1946 she was transferred to Submarine Squadron TWO in New London, Connecticut.

ARGONAUT, originally built as a Fleet Type Submarine, underwent a major conversion in July, 1952. During this conversion a snorkel system and streamlined sail were installed. ARGONAUT was transferred to Submarine Squadron SIX in Norfolk, Virginia, in 1955. She was again converted, this time to a Regulus Missile Guidance Submarine. In 1958 her homeport was changed to San Juan, P. R., where she remained for a year engaged in missile training operations. ARGONAUT returned to Norfolk, Virginia in 1959, where she has been stationed to this time. Her missile guidance system was removed during overhaul in 1960, and since that time ARGONAUT has been classed as a Fleet Snorkel Submarine.

Since 1960, ARGONAUT has served with both the SIXTH Fleet in the Mediterranean Sea and with the SECOND Fleet in the Atlantic, engaged in traditional submarine operations.

Following Canadian-U. S. negotiations to provide the Canadian Armed Forces with a submarine to carry on training duties on the Pacific coast, the ARGONAUT was scheduled for decommissioning and transfer to Canada on 2 December 1968.

## HMCS RAINBOW (SS-75)

HMCS RAINBOW is the former U. S. Navy submarine ARGONAUT which has been negotiated for transfer to the Canadian Armed Forces. She will be based at Esquimalt, B. C., and provide submarine services and anti-submarine training for naval and air units on the Pacific coast.

The officers and men who will serve in RAINBOW are all volunteers for submarine service. The entire crew has previously served in the submarine HMCS GRILSE, formerly the USS SURFISH.

The RAINBOW is 312 feet long and has a 27 foot beam. Her displacement is 1900 tons on the surface, and 2500 tons submerged. The complement is seven officers and 65 men.

She has a surface speed of approximately 18 knots and a submerged speed of 10 knots, with an operational range of 10,500 miles at 10 knots.

The RAINBOW has six bow and four stern torpedo tubes capable of firing either steam or electrically driven torpedoes.

### WEAPONS

The main propulsion machinery consists of four engine-generator combination and two storage batteries, which, alone or in combination, supply electric energy through the main control cubicle to the main motors, which propel the vessel.

Each main engine generator combination consists of a ten cylinder, opposed piston, Fairbanks-Morse diesel engine, rated at 1,600 HP, driving an Elliot 1,100 KW generator.

The main storage battery is of Exide manufacture and consists of two 126 cell groups which can be operated individually, or in parallel.

The main motors, of Elliot manufacture, are double armature motors producing 2,700 HP per shaft.

### PROPULSION MACHINERY



There are two Badger distilling units, located in the forward engine room, each rated at 1,000 gallons of water per day. The units produce water for domestic purposes and for the main storage batteries.

Two four-stage Hardie-Tynes air compressors are located in the forward engine room to produce the high pressure air required to operate the air systems. This air, stored in six major airbanks located in the ballast tanks, and for the interior service air systems.

A Rootes type low pressure blower is located in the pump room to provide the large volume of air required for blowing down the main ballast tanks after surfacing. A freon refrigeration unit in the pump room controls the temperature of the submarine's cool and cold storage rooms.

Two air conditioning units are installed in the after engine room. Each of these freon units is rated at 1½ tons.

The hydraulic system is supplied by two pumps operating in conjunction with a hydraulic accumulator. The hydraulic system is used to operate main vents, outboard exhaust valves, snorkel masts, periscopes, and ship control systems.

The RAINBOW has complex electronic and electrical systems.

The main propulsion is direct current. Lighting, which is primarily DC, is provided by HIR regulators located in the forward engine room. There are five 60-cycle motor generator sets providing AC power for radar, sonar, electronics, as well as utility circuits for other purposes, including AC lighting. Emergency lighting is provided directly from the main storage batteries.

The RAINBOW is fitted with radio equipment for receiving and transmitting on low, medium, high, very high, and ultra high frequencies. A long range passive sonar and an underwater telephone are fitted. One of the two periscopes has an antenna adapter enabling radar ranges to be taken with only the periscope window exposed.

## AUXILIARY MACHINERY

## ELECTRICAL EQUIPMENT

## ELECTRONICS

The crew of the RAINBOW has been trained in the free-ascent escape technique. Emergency escape arrangements are fitted at both ends of the submarine.

Two buoys are fitted to the superstructure forward and aft. Each buoy has over 1200 feet of wire rope wound on a reel within the buoy. The other ends of the lines are shackled to the two escape hatches.

## SAFETY EQUIPMENT

Officers accommodations consist of the commanding officer's cabin and three three-berth cabins. Accommodations for the men consist of a five-berth cabin for chief petty officers, and 67 bunks in the ends and in the midship berthing compartment.

## LIVING QUARTERS

An all-electric galley makes possible cafeteria style messing for the crew. The compact equipment ensures the provision of meals that will compare favorably with meals on board surface ships. There are cold and dry storage spaces to carry a 60-day supply of provisions for the crew.

## FOOD ARRANGEMENTS



# THE DECOMMISSIONING OF USS ARGONAUT AND THE COMMISSIONING OF HMCS RAINBOW

## THE CEREMONY

1400, 2 December 1968

Guests of honour arrive  
Vice Admiral and Mrs. J. C. O'Brien  
Vice Admiral A. F. Schade, USN

U. S. National Anthem... CINCLANTFLT Band

INVOCATION by LCDR C. C. Kary, USN,  
Chaplain, Submarine Squadron SIX

ADDRESS by CAPT J. E. Clarke, III, USN  
Commander Submarine Squadron SIX

ADDRESS by VICE ADMIRAL A. F. Schade, USN  
Commander Submarine Force, U. S.  
Atlantic Fleet

USS ARGONAUT DECOMMISSIONS... "RETREAT":  
Lowering of US Colors, Jack

Ship's Company Disembarks

Delivery of Transfer Document by Vice Admiral  
A. F. Schade, USN, on behalf of the  
Secretary of the Navy, to Captain T. W. Maxwell,  
CAF, accepting on behalf of the Chief of  
Technical Service, Canadian Armed Forces.

Submarine renamed and blessed by her sponsor  
Mrs. J. C. O'Brien

Guest of Honour introduced by Captain  
T. W. Maxwell, CAF.

ADDRESS by Vice Admiral O'Brien,  
Commander Canadian Maritime Command

HMCS RAINBOW Commissioning  
Canadian National Anthem... CINCLANTFLT Band  
Hoisting of Colors and Jack

SERVICE: Conducted by LT M. G. MacDonald,  
CHAPLAIN, CAF, and LT G. F. Coutts,  
CHAPLAIN, CAF

HYMN: Tune "Eternal Father Strong to Save"

O Father, King of Earth and Sea,  
We dedicate this ship to Thee;  
In faith we send her on her way,  
In faith to Thee we humbly pray,---  
O hear from heaven our sailors' cry,  
And watch and guard her from on high.

And when at length her course is run,  
Her work for home and country done;  
Of all the souls that in her sailed,  
Let not one life in Thee have failed,  
But hear from heaven our sailors' cry  
And grant eternal life on high.  
AMEN.

(In case of inclement weather, ceremony to be held in McCormick Center, U. S.  
Naval Station, Norfolk, Virginia)

PSALM 107 (Verses 23 to 31), to be said together.

& 43

23. They that go down to the sea in ships, that do business in great waters.
24. These see the works of the Lord, and his wonders in the deep.
25. For He commandeth, and raiseth the stormy wind, which lifteth up the waves thereof
26. They mount up to the Heavens, they go down again to the depths; their soul is melted because of trouble
27. They reel to and fro, and stagger like a drunken man, and are at their wit's end
28. Then they cry into the Lord in their trouble, and He bringeth them out of their distresses
29. He maketh the storm a calm, so that the waves thereof are still.
30. Then are they glad because they be quiet; so He bringeth them unto their desired haven
31. Oh that men would praise the Lord for his goodness, and His wondrous works for the children.
43. Who is wise, and will observe these things, even they shall understand the loving-kindness of the Lord

## PRAYER

O Thou that sittest above the water floods, and stillest the raging of the sea, accept, we beseech Thee, supplications of Thy servants for all in this ship, now and hereafter, shall commit their lives unto the perils of the deep, in all their ways enable them truly and godly to serve Thee, and by their Christian lives to set forth Thy glory throughout the earth. Watch over them in their going forth and their coming in, that no evil befall them, nor mischief come nigh to hurt their souls. And so through the waves of this troublesome world, and through all the changes and chances of this normal life, bring them by Thy mercy to the sure haven of Thine everlasting kingdom; through Jesus Christ Our Lord, AMEN.

The Naval Prayer

The Lord's Prayer

Blessing

Ship's company embarks HMCS RAINBOW

Commanding Officer is piped on board

The Commanding Officer, LT.-Cdr.

C. E. Falstrom, CAF, Addresses the

ship's company

RECEPTIONS following Ceremony



# THE HERITAGE

The present RAINBOW is the second ship to bear this name in the Canadian Armed Forces. The name has also been used eight times by the Royal Navy, the last of which was an "R" Class submarine which was built in the 1930's and lost during World War II. Other ships of the name date back to the battles of the Armada in 1588 and Cadiz in 1596.

The first RAINBOW to serve for Canada has long been associated with the birth of the Royal Canadian Navy. When the RCN was found in 1910 the British Admiralty transferred two cruisers to Canada. The first of these was HMS RAINBOW. She was commissioned for service as HMCS RAINBOW on 4 August 1910 and was therefore the first ship to bear the title "HMCS".

This first HMCS RAINBOW was a protected cruiser of the APOLLO Class and was completed in 1892. She had an armament of 2-6" and 6-4 7" guns plus 4-14" torpedo tubes, with a speed of 20 knots and a complement of 273 officers and men.

She was based at Esquimalt, B. C. until scrapped in 1922.

## LIEUTENANT COMMANDER C. E. FALSTREM

Lieutenant Commander FALSTREM was born in Perry Sound, Ontario in May, 1937. He joined the Royal Canadian Navy via the Venture Plan in September 1954. After completing two years at HMCS VENTURE and the Junior Officers Technical Course at HMCS STADACONA he served for a year in the destroyer, HMCS CRUSADER. He joined submarines in June 1958 at HMS DOLPHIN, Gosport, Hants, England. After completing the Submarine Officers Training Course he continued to serve on loan to Royal Navy until January 1963. During this time he served on HM Submarines SEA SCOUT, GRAMPUS and ACHERON. He then returned to Canada for a period of General Service and served on board HMC ships ST. CROIX, ST. LAURENT and NEW WATERFORD. He returned to the Royal Navy submarine service in May 1965. After a short spell on HMS OSIRIS and the Principal Control Officers Course, he joined HMS AENEAS in October 1965 and served as her Executive Officer until April 1968. He completed the Submarine Commanding Officers Qualifying Course in July 1968 and then returned to Canada, having completed a total of eight years loan service to the Royal Navy. He assumed command of HMC Submarine GRILSE in August 1968 and remained in command until the transfer of HMCS RAINBOW to the Canadian Armed Forces on 2 December 1968.

## FORMER COMMANDING OFFICERS, USS ARGONAUT (SS-475)

|                             |           |
|-----------------------------|-----------|
| LCDR J. S. SCHMIDT, USN     | 1945-1946 |
| LCDR J. P. CURRIE, USN      | 1946-1948 |
| LCDR H. C. LAUERMAN, USN    | 1948-1950 |
| LCDR C. W. LYNN, USN        | 1950-1952 |
| LCDR J. E. CLARKE, III, USN | 1952-1954 |
| LCDR D. P. BROOKS, USN      | 1954-1956 |
| LCDR W. E. WHITE, USN       | 1956-1958 |
| LCDR G. A. HAMILTON, USN    | 1958-1960 |
| LCDR E. F. RESCH, USN       | 1960-1962 |
| LCDR T. A. CURTIN, USN      | 1962-1964 |
| LCDR F. HOLLOWAY, USN       | 1964-1966 |
| LCDR B. R. MCLAUGHLIN, USN  | 1966-1968 |





LCDR P. C. TAYLOR, USN  
COMMANDING OFFICER

## USS ARGONAUT (SS-475) SHIP'S COMPANY

### OFFICERS:

LCDR P. C. TAYLOR  
LCDR J. S. BURROWS  
LT J. S. KOLODZIEJ  
LT J. M. BALDWIN, III  
LT P. E. PRITCHARD  
LTJG P. E. HOOVER  
LTJG C. A. WIESE  
LTJG D. W. POWERS, III  
LTJG D. C. BOOHER

COMMANDING OFFICER  
EXECUTIVE OFFICER

### MEN:

ALMAZAN, Manuel C. SD2(SS)  
ART, Steven M. FTG3  
BALDI, Louis R. SKSN  
BLOSS, Robert W. CS3  
BRAVERMAN, Gerald B. YNSN(SS)  
BROWN, Carlie M. TM2(SS)  
BROWN, David F. ETR2  
BROWN, Robert J. QM3(SS)  
BROWN, William K. ETR3(SS)  
BRUN, Raymond T. QM3(SS)  
BUFFORD, Terry L. EM3  
BYERS, James R. TM2(SS)  
CANNON, Joe M. Jr. EN3  
CLARK, John B. ENFN  
CONKLIN, Jerald L. RMC(SS)  
CRISLER, Gerald F. EN3  
DAVIDSON, Thomas P. EN1(SS)  
DICKENS, Charles A. EMC(SS)  
DUDA, John F. EM2(SS)  
EPSTEIN, Joel K. IC2(SS)  
FOSBINDER, David A. EM2(SS)  
GALINDO, Rodrigo I. TN(SS)  
GLASS, Joseph C. RM3  
GREEN, Jeffrey D. RM3(SS)  
GUEST, Charles D. MM2(SS)  
HARRIS, Carl CS1(SS)  
HEPP, Glenn T. EM2(SS)  
HEPWORTH, John H. MM2(SS)  
HOOD, Richard D. EM1(SS)  
HENDERSON, William F. SN  
JESSOP, William T. TM1(SS)  
JOHNSON, Dean A. YN3(SS)  
JONES, Walter J. EN3  
LOMBA, James A. ENC(SS)

LOWTHERS, Charles J. FA  
LUZANO, Nicanor D. C. EM3(SS)  
MATSON, Ivan D. EN2(SS)  
METZ, Richard A. STC(SS)  
NEWBY, Basil R. RMSN  
NORMAN, Woodrow A. EM2(SS)  
NORRIS, Michael S. TM3(SS)  
OAKES, William F. IC3(SS)  
OSMUNSON, Lorence R. III EM2(SS)  
OSSWALD, Albert A. III EM2(SS)  
PELLICER, Francisco B. TN(SS)  
PUCCIO, Nicholas RM3  
QUILLIN, James E. FTG3  
REDMON, Michael E. ETR3  
RODEWALT, Arthur V. ETR2(SS)  
ROSS, Edwin L. SN(SS)  
RUSSELL, Harold N. NMCS(SS)  
SINGLE, Robert J. Jr. EN1(SS)  
SICKLES, Donald A. FTG3N  
SPEED, Woodie L. MMFN  
SPRINGER, Robert F. Jr. MM2(SS)  
STEBBINS, Harvey E. MM2(SS)  
SWEENEY, Walter W. NMC(SS)  
TANNER, Charles M. EYN2(SS)  
TRUMBULL, Paul E. STS2(SS)  
VERNON, Gary W. TM2(SS)  
WHITUS, James K. HMC(SS)  
WILLIFORD, John F. MM3(SS)  
WISE, William R. SK3(SS)  
WOODROW, Dennis E. EN2(SS)  
WOODS, William J. Jr. MM3(SS)  
WRAY, Richard B. ICFN  
ZILAR, William B. Jr. TMCS(SS)



LCDR C. E. FALSTROM, CAP  
COMMANDING OFFICER

## HMCS RAINBOW (SS-75) SHIP'S COMPANY

### OFFICERS:

LCDR C. E. FALSTROM  
LT R. C. HUNT ✓  
LT D. HARRISON  
LT E. E. DAVIE  
LT B. J. FISHER ✓  
LT K. G. NESSIT  
LT G. C. OAKLEY

COMMANDING OFFICER  
EXECUTIVE OFFICER

### MEN:

#### CHIEF PETTY OFFICERS:

R. D. MCCALLUM  
J. J. SLOAN

#### PETTY OFFICER FIRST CLASS:

J. BOWCOTT ✓  
J. HANSEN ✓  
J. HINDIE  
B. I. MACKAY  
R. D. SIEMENS  
D. D. THOMPSON  
B. H. YOUNG ✓

#### PETTY OFFICER SECOND CLASS:

B. J. BATCHELOR ✓  
I. B. BROWER-BERKHOFEN ✓  
D. M. BRICADYR ✓  
F. J. BUTTON  
B. D. CONROY ✓  
H. O. DEEN  
A. R. FARRELL  
K. IRVINE  
B. JENNINGS ✓  
R. E. PETERS ✓  
S. C. UNISCHENSKI ✓  
K. C. WILSON

#### LEADING SEAMEN:

R. C. BROWN  
J. E. BURNETT

H. S. CAIRNS  
M. J. CAMPBELL ✓  
K. G. CAPRON ✓  
G. C. COSTELLO  
R. B. COULTER ✓  
M. E. COX ✓  
E. DEMERS ✓  
R. EMERY ✓  
G. W. COLLIA ✓  
D. GRIFFITH  
T. E. HEDLEY  
H. R. HOLM ✓  
W. A. JENSEN ✓  
P. JOHNSON ✓  
S. K. LORD ✓  
A. MCGITT  
E. F. MICHON  
G. I. MCLEAN  
W. K. MCNEE  
D. H. MCKERRACHER ✓  
G. ORMSBY ✓  
J. W. PHILLIPS ✓  
J. G. POWER ✓  
W. H. PUFF  
C. C. ROSE ✓  
J. M. SCOTT  
G. SHAW ✓  
B. L. SINKINSON ✓  
B. THERRIEN ✓  
J. K. TRASE  
S. C. VADESONCOEUR  
T. E. WILSON ✓

#### ABLE SEAMEN:

A. R. BOONE  
R. A. CHODAK  
S. G. FAIRBAXEN  
J. GOODMAN  
W. P. HANSEN  
B. L. HILLS  
M. R. PARKER





Interior Views - HMCS RAINBOW