

INTRODUCTION TO DATA SHEET #37

The US Navy had a varied and complex role to play in all the nuclear tests. With the exception of ARGUS and MILROW, the Navy had to announce and enforce a restricted target area. [NOTMAR (Notice to Mariners) and NOTAM (Notice to Airmen).] Before each test, scientists and their equipment had to be transported to the test site. Instruments had to be placed, tested, and calibrated. Communications equipment had to be tested and secured. On land, construction units had to establish facilities. The special devices (thermonuclear weapons) had to be safely and securely transported to the site and guarded until it was taken for installation and use. During the tests, ships had to be on hand for logistical support, medical and decontamination assistance, gathering telemetry and monitoring scientific tests and radiation exposure. When rockets had to be aborted, Navy crews had to capture as much of the debris as possible. After the tests were concluded, naval ships and other personnel had to be on hand for clean-up and transport.

In the data sheet that follows I have listed only those hull-designated ships with hull numbers that appeared in the Official Reports. With the exception of ARGUS and MILROW the reports also cited many small ships with a hull designation of LCI, LCVP, and similar small boats but without a hull number. It is highly doubtful that there is any mail from these craft. Even mail with a corner card from these small boats is extremely unlikely. These small craft operated ferry services between ship and shore, ship-to-ship, and inter-island and intra-island and were part of the boat pool.

With regard to the ships listed as LCI, LCI (L), LCU, and LSM, I doubt the existence of anything but corner card mail, probably on a #10 cover as official mail. The same situation is also true for the yard craft whose hull designation begins with the letter "Y."

Several of the nuclear tests extended over a period of weeks and months. Not every ship listed in the data base was present every single day of the operation. Ships rotated in and out so that crews could gain experience. If you have a cover cancelled within the time frame of a test, you might want to check the specific operation in the DTIC records so see if the ship was physically present at that time. Mail to and from ships was a US Navy matter. However, due to the volume of mail it is possible that some Official Mail, probably in #10 envelopes, was sent out bearing a US Army APO 187 cancel.

TEST NAME	DATE	LOCATION	TF	AIM
SANDSTONE	APR 14 - MAY 14 1948	ENEWETAK	7.3	BOMB DESIGN
GREENHOUSE	APR 7 - MAY 24 1951	ENEWETAK	JTF-3	DEVELOPMENT OF THERMONUCLEAR WEAPONS
IVY	OCT 31 - NOV 5 1952	ENEWETAK	TG 132	TESTING THERMONUCLEAR WEAPONS
CASTLE	MAR 1 - APR 22, 1954	BIKINI	7.3	TEST DESIGN FOR AIRCRAFT DELIVERABLE THERMONUCLEAR WEAPONS
WIGWAM	MAY 14 - MAY 14, 1953	500 NM OFF SAN DIEGO	7.3	VULNERABILITY OF SUBS TO DEEPLY DETONATED NUCLEAR WEAPONS
REDWING	MAY 4 - JUL 21, 1956	ENEWETAK, BIKINI	7.3	TESTING THERMONUCLEAR WEAPONS
HARDTACK	APR 28 - AUG 18, 1958	ENEWETAK, BIKINI	JTF-7	TESTING THERMONUCLEAR WEAPONS
ARGUS	AUG 27, - SEP 6, 1958	SOUTH ATLANTIC	TF 88	HIGH ALTITUDE TESTS BEYOND THE EARTH'S ATMOSPHERE
DOMINIC I	APR 25 - OCT 30, 1962	CHRISTMAS ISLAND, JOHNSTON ATOLL, PACIFIC OCEAN OFF SOUTHERN CALIFORNIA	JTF-8	TESTING THERMONUCLEAR WEAPONS
MILGROW	OCT 2 - OCT 2, 1969	AMCHITKA IS.		UNDERGROUND NUCLEAR TEST

OPER. SANDSTONE - APR 14 - MAY 14, 1948			
SHIP		ROLE	NOTES
ALBEMARLE AV-5		TASK UNIT	
AREQUIPA AF-31		SERVICE UNIT	
ASKARI ARL-30		BOAT POOL UNIT	
BAIROKO		HELO UNIT	
COMSTOCK LSD-19		BOAT POOL UNIT	
CURRIER DE-700		TASK UNIT	
CURTISS AV-4		OFF-SHORE PATROL	
DAVISON DMS-37		OFF-SHORE PATROL	
GARDINER BAY AVP-9		OFF-SHORE PATROL	
GEORGE DE-697		BOAT POOL UNIT	
GULL AMS-16		BOAT POOL UNIT	
HENRY W. TUCKER DDR-875		BOAT POOL UNIT	
LCI(L)-549		BOAT POOL UNIT	
LCI(L)-1054		BOAT POOL UNIT	
LCI(L)-1090		BOAT POOL UNIT	
LCI-1094		BOAT POOL UNIT	
LCI-1345		CABLE UNIT	
LCI-472		CABLE UNIT	
LCI-494		TASK UNIT	
LCI-549		TASK UNIT	
LCT 1194		TASK UNIT	
LCT 1345		OFF-SHORE PATROL	
LCT 472		FLAG	
LCT 494		SERVICE UNIT	

LSM-250		TASK UNIT	
LSM-378		OFF-SHORE PATROL	
LST-219		OFF-SHORE PATROL	
LST-45		OFF-SHORE PATROL	
LST-611		OFF-SHORE PATROL	
MARSH DE-699		TASK UNIT	
MISPILLION AO-105		TASK UNIT	
MT. McKINLEY AGC-7		SERVICE UNIT	
PASIG AW-3		SERVICE UNIT	
PCKAWAY APA-222		OFF SHORE PATROL	
PELICAN AMS-32		BALLOON LAUNCH SUPPORT	
PERKINS DDR-811		BALLOON LAUNCH SUPPORT	
QUICK DMS-32		BOAT POOL UNIT	
RABY DE-696		BOAT POOL UNIT	
ROGERS DDR-876		BOAT POOL UNIT	
SPANGLER DE-696		BOAT POOL UNIT	
SWALLOW AMS-36		BOAT POOL UNIT	
WARWICK AKA-89		FUEL	
YANCEY AKA-93		BOAT POOL UNIT	
YOG-64		BOAT POOL UNIT	
YW-94		BOAT POOL UNIT	
OPER. GREENHOUSE - APR 7 - MAY 24, 1951			
SHIP		ROLE	NOTES
CURTISS AV-4		FLAG	
CABILDO LSD-16		MOBILE BOAT POOL	

LCU-666		SERVICE & HARBOR CONTROL	
LCU-667		SERVICE & HARBOR CONTROL	
LCU-709		SERVICE & HARBOR CONTROL	
LCU-764		SERVICE & HARBOR CONTROL	
LCU-851		SERVICE & HARBOR CONTROL	
LST-859		WEATHER STATION SUPPORT, HOTEL SHIP & SCIENCE PERSONNEL TRANSPORT	
SGT.CHARLES .E. MOWER T-AP-186		HOTEL SHIP	
SPROSTON DDE-577		CONVOY & ESCORT, SURFACE PATROL	
WALKER DDE-517		CONVOY & ESCORT, SURFACE PATROL	
OPER. IVY - OCT 31 - NOV 5, 1952			
SHIP		ROLE	NOTES
AGAWAM AOG-6		BOAT POOL, FUELING	
ARIKARA ATF-98		UNDERWATER DETECTION, TOWING & HARBOR SERVICES	
CARPENTER DDE-825		PLANE GUARD, PATROL, ESCORT	
CURTISS AV-4		WEAPONS TRANSPORT	
DAVID C. SHANKS T-AP-180		TRANSPORT	
ELDER AN-20		UNDERWATER DETECTION	
ESTES AGC-12		TRANSPORT, LAB FACILITIES, AIR CONTROL FOR FLIGHT OPS.	
FLETCHER DDE-445		PATROL & ESCORT	
GEN. E.T. COLLINS T-AP-147		TRANSPORT	
LEO AKA-60		TRANSPORT	
LIPAN ATF-85		BOAT POOL, TOWING & HARBOR SERVICES	
LST-836		TRANSPORT - CONSTRUCTION ASSISTANCE	
MOCTOBI ATF-165		TOW	
TUG OWNED & OPERATED BY		UNDERWATER DETECTION	

OCEAN TUG OWNED & OPERATED BY		UNDERWATER DETECTION	
OAK HILL LSD-7		SERVICE & HARBOR CONTROL	
O'BANNON DDE-450		PATROL & ESCORT, INTER-ISLAND AIR CONTROLLER	
RADFORD DDE-446		PATROL & ESCORT	
RENDOVA CVE-114		FLAG, CONVOY & ESCORT, MOBILE RADIOLOGICAL LAB, HELO TRANSPORT	
TAKELMA ATF-118		TOW	
YUMA ATF-94		BOAT POOL, TOWING & HARBOR SERVICES	
OPER. CASTLE MAR 1 - APR 22, 1953			
SHIP		ROLE	NOTES
CURTISS AV-4		VARIOUS	
APACHE ATF-67		UTILITY	
BAIROKO CVE-115		CARRIER UNIT	
BELLE GROVE LSD-2		BOAT POOL MOTHER SHIP / SPECIAL DEVICES TRANSPORT	
COCOPA ATF-101		UTILITY	
EPPERSON DD-719		SURFACE SECURITY / PLANE GUARD	
ESTES		FLAG	
FRED C. AINSWORTH T-AP-181		PERSONNEL TRANSPORT	
GEORGE EASTMAN YAG-39		DRONE UNIT	
GRANVILLE S. HALL YAG-40		DRONE UNIT	
GYPSY ARSD-1		UTILITY	
LST-551		MATERIAL TRANSPORT	
LST-762		SPECIAL DEVICES TRANSPORT	
LST-825		MATERIAL TRANSPORT	
TERREL COUNTY LST-1157		MINE PROJECT ELEMENT	
MENDER ASRD-2		UTILITY	

MOLALA ATF-106		UTILITY	
NICHOLAS DDE-449		SURFACE SECURITY	
PC-1546		SURFACE SECURITY	
PHILIP DE-498		SURFACE SECURITY	
RECLAIMER ARS-42		MINE PROJECT ELEMENT	
RENSHAW DDE-719		SURFACE SECURITY	
SHEA DM-30		MINE PROJECT ELEMENT	
SIOUX ATF-75		UTILITY	
YO-120		HARBOR UNIT	
YOG-61		HARBOR UNIT	
YOGM-82		HARBOR UNIT	
OPER. WIGWAM - MAY 14, 1953			
SHIP		ROLE	NOTES
BLUE DD-744		SURFACE PATROL	
BOLSTER ARS-38		TOWING & SALVAGE	
BUTTERNUT AN-9		TOWING & SALVAGE	
CHANTICLEER ASR-7		TOWING & SALVAGE	
COMSTOCK LSD-19		TRANSPORT	
CREE ATF-64		TOWING & SALVAGE	
CUNNINGHAM DD-752		SURFACE PATROL	
CURTISS AV-4		CARRIER AIR SUPPORT	
EVANS DD-754		SURFACE PATROL	
FT. MARION LSD-22		TRANSPORT	
GEORGE EASTMAN YAG-39		RADIOLOGICAL SUPPORT	
GRANVILLE S. HALL		RADIOLOGICAL SUPPORT	

GYPSY ARSD-11		TOWING & SALVAGE	
HITCHITI ATF-103		TOWING & SALVAGE	
HUBBARD DD-748		SURFACE PATROL	
LST-1048		WIRE	
LST-975		WIRE	
McKEAN DDR-784		SURFACE PATROL	
MOALE ATF-106		RADIOLOGICAL SUPPORT	
MOCTOBI ATF-105		TOWING & SALVAGE	
MOLALA ATF106		RADIOLOGICAL SUPPORT	
MT. McKINLEY AGC-7		FLAG	
O'BRIEN DD-725		SURFACE PATROL	
RECLAIMER ARS-42		TOWING & SALVAGE	
SMALL DDR-838		SURFACE PATROL	
SQUAW 12		SPECIAL SUB TARGET	
SQUAW 13		SPECIAL SUB TARGET	
SQUAW 29		SPECIAL SUB TARGET	
TAWASA ATF-92		TOWING & SALVAGE	
WALKE DD-723		SURFACE PATROL	
WRIGHT CVL-49		CARRIER AIR SUPPORT	
YC-12		TOWING & SALVAGE	
YFNB-12		TOWING & SALVAGE	
YFNB-13		TOWING & SALVAGE	
YFNB-29		TOWING & SALVAGE	
R/V HORIZON		OCEANOGRAPHIC SUPPORT	
R/V BAIRD		OCEANOGRAPHIC SUPPORT	
R/ PAOLINA-T		OCEANOGRAPHIC SUPPORT	

OPER. REDWING - MAY 4 - JUL 21, 1956			
SHIP		ROLE	NOTES
ABNAKI ATF-96		UTILITY UNIT	
BADOENG STRAIT CVE-116		CARRIER UNIT	
CATAMOUNT LSD-17		BOAT POOL UNIT	
CHICKASAW ATF-83		UTILITY UNIT	
CROOK COUNTY LST-611		RADIOLOGICAL SUPPORT UNIT	
CURTISS AV-4		SPECIAL DEVICES UNIT	
ESTES AGC-12		FLAG	
FRED C. AINSWORTH T-AP-181		ACCOMODATIONS UNIT	
GEORGE EASTMAN YAG-39		RADIOLOGICAL SUPPORT UNIT	
GRANVILLE S. HALL YAG-40		RADIOLOGICAL SUPPORT UNIT	
KNUDSON APD-10		SURFACE PATROL & TRANSPORT	
KYES DD-787		SURFACE PATROL & TRANSPORT	
LIPAN ATF-85		UTILITY UNIT	
LST-306		SURFACE PATROL & TRANSPORT	
LST-618		SURFACE PATROL & TRANSPORT	
McGINTY DE-368		SURFACE PATROL & TRANSPORT	
SHELTON DD-790		SURFACE PATROL & TRANSPORT	
SILVERSTEIN DE-534		SURFACE PATROL & TRANSPORT	
SIoux ATF-75		UTILITY UNIT	
YCV-1420		UTILITY UNIT	
YC-10		UTILITY UNIT	

YON-182		UTILITY UNIT	
OPER. HARDTACK - APR 28 - AUG 18, 1958			
SHIP		ROLE	NOTES
DE HAVEN DD-727		WEATHER, SAR, SCIENCE PROJECTS	
ARIKIRA ATF-98		MOORING, POSITIONING, DECONTAMINATION, SALVAGE, SCIENCE PROJECTS	
BELLE GROVE LSD-2		BOAT POOL	
BENNER DDR-807		WEATHER, SAR, NOSECONE RECOVERY	
BOLSTER ARS-38		MOORING, POSITIONING, SALVAGE, SCIENCE PROJECTS	
BONITA SSK-3		TARGET	
BOXER CVS-31		COMMAND SHIP, SPECIAL DEVICE TRANSPORT	
CACAPON AO-52		FUEL	
CHANTICLEER ASR-7		MOORING & DIVING	
CHOWANOC ATF-100		POSITION, MOORING, RETRIEVING, SCIENCE PROJECTS	
COGSWELL DD-651		SCIENCE PROJECTS	
COLLETT DD-730		SECURITY PATROL, WEATHER, SAR, SCIENCE PROJECTS	
COMSTOCK LSD-19		BOAT POOL	
CREE ATF-84		SALVAGE	
ELKHORN AOG-7		POL	
EPPERSON DDE-719		SCIENCE PROJECTS	
FLOYD B. PARKS DD-884		SECURITY PATROL, WEATHER, SAR	
FRED C. AINSWORTH T-AP-181		HOTEL	
FULLAM DD-474		TARGET	
GRASP ARS-24		MOORING, POSITIONING, DECONTAMINATION, SALVAGE, SCIENCE PROJECTS	

HOGGAR ISLAND ARG-17	SPECIAL SERVICES, DECONTAMINATION
HOWORTH DD-592	TARGET
JOHN R. CRAIG DD-885	SECURITY PATROL, WEATHER, SAR, SCIENCE PROJECTS
JOYCE DER-317	SAR, SCIENCE PROJECTS
KARIN AF-33	TRANSPORT& LOGISTIC SUPPORT
KILLEN DD-543	TARGET
LANSING DER-388	SAR. SCIENCE PROJECTS
LAWRENCE COUNTY LST-887	FUEL, BERTHING
MAGOFFIN APA-199	TRANSPORT, DECONTAMINATION CENTER
MANSFIELD DD-DD-728	WEATHER, SAR
MARAPI AF-38	TRANSPORT, LOGISTIC SUPPORT
MICHAEL MORAN EC-2	TARGET
MITCHELL ATF-103	SCIENCE PROJECTS
MOCTOBI ATF-105	POSITIONING, SALVAGE, SCIENCE PROJECTS
MONTICELLO LSD-35	BOAT POOL, NOSECONE RECOVERY
MUNSEE ATF-107	SCIENCE PROJECTS
NAVARRO APA-215	TRANSPORT, DECONTAMINATION CENTER
NEMASKET AOG-10	FUEL
ORLECK DD-886	SAR, WEATHER, ASW, NOSECONE RECOVERY
PERKINS DDR-887	SECURITY PATROL, WEATHER, SAR
REHOBETH AGS-50	OCEANOGRAPHIC SURVEY
RENVILLE APA-227	DECONTAMINATION CENTER
SAFEGUARD ARS-25	RADIOACTIVE NOSECONE RECOVERY
SILVERSTEIN DE-534	WATER SAMPLING
STERLETT SS-392	TARGET
TAKELMA ATF-113	POSITION, RECOVERY, & DECONTAMINATION OF TARGET ARRAYS

TILLAMOOK ATA-192		TOWING	
T-LST-618		EQUIPMENT REMOVAL, EMERGENCY EVACUATION	
T-LST-664		EQUIPMENT REMOVAL, EMERGENCY EVACUATION	
TOMBIGBEE AOG-11		FUEL	
TORTUGA LSD-26		TRANSPORT	
OPER. ARGUS - AUG 27 - SEP 6, 1958			
SHIP		ROLE	NOTES
ALBEMARLE AV-5		RADIATION DETECTION	
BEARSS DD-654		WEATHER PICKET, SURFACE SECURITY, SAR	
COURTNEY DE-1021		WEATHER PICKET, SURFACE SECURITY, SAR	
HAMMERBERG DE-1015		WEATHER PICKET, SURFACE SECURITY, SAR	
NEOSHO AO-143		FUEL, MOBILE LOGISTICS	
NORTON SOUND AVM-1		MISSILE LAUNCH	
SALAMONIE AO-26		FUEL, MOBILE LOGISTICS	
TARAWA CV-40		FLAG, MISSILE TRACKING, LOGISTICS, SEARCH & SECURITY OPS., SCIENTIFIC MEASUREMENTS	
WARRINGTON DD-843		PLANE GUARD, WEATHER PICKET, SURFACE SECURITY, SAR	
OPER. DOMINIC I - APR 24 - OCT 30, 1962			
SHIP		ROLE	NOTES
ABNAKI ATF-95		ROLLUP OPS., OBSERVATION	
AGERHOLM DD-826		FIRED ASROC	
ARIKARA ATF-98		OBSERVER, POD RECOVERY	
ATALANTA T-AOG-81		FUEL	
BAUSELL DD-845		UNMANNED TARGET	

BRUSH DD-743		SURVEILLANCE	
CABILDO LSD-16		TRANSPORT, OBSERVER	
CARBONERO SS-337		OBSERVER, DATA COLLECTION	
CHEMUNG AO-30		POL	
CHICKASAW ATF-83		RECOVERY UNIT	
CHIPOLA AO-63		POL, OBSERVER	
CONSERVE4R ASR-39		ROCKET RECOVERY, OBSERVER	
CREE ATF-84		TUG	
DELIVER ARS-23		LOGISTICAL SUPPORT-JOHNSTON ISLAND	
ENGAGE MSO-433		POD & NOSECONE RECOVERY, TOWING	
ETHAN ALLEN SSBN-608		MISSILE FIRING	
FALGOUT DER-324		SURVEILLANCE, RADAR PICKET	
FINCH DER-328		SURVEILLANCE, RADAR PICKET	
FORESTER DER-334		TARGET-RAFT TENDING, SAR	
FORTIFY MSO-446		SURFACE RECOVERY	
GANNET MSC-290		HYDROACOUSTIC PROPAGATION	
GRAPPLE ASR-7		POD RECOVERY	
GURKE DD-783		OBSERVER, PATROL	
HALSEY POWELL DD-686		SPECIAL OPS., PATROL	
HARRIS COUNTY T-LST-822		LOGISTICS & SCIENCE ROLLUP	
HASSAYAMPA AO-145		OBSERVER, FUEL	
HENRY COUNTY LST-824		OBSERVER, SCIENCE PROJECTS	
HITCHITI ATF-103		SPECIAL OPS.	
HOPEWELL DD-881		SQUAW TARGET LOCATION	
IMPERVIOUS MSO-449		SURVEILLANCE & PATROL	
INFLICT MSO-456		SURVEILLANCE & PATROL	

IWO JIMA LPH-2		OBSERVER, EVACUATION	
JENKINS DD-447		OBSERVER, SURVEILLANCE	
JEROME COUNTY LST-848		ROLLUP OPS., OBSERVATION	
JOHN S. McCain DL-3		OBSERVER, POD RECOVERY, SAR, NAVAID, ASW,	
LANSING DER-388		SURVEILLANCE, OBSERVER	
LIPEN ATF-85		TUG	
LOYALTY MSO-457		UNDERWATER MEASUREMENTS OF ELECTROMAGNETIC SIGNALS	
MADDOX DD-731		ETHAN ALLAN MISSILE LAUNCH, OBSERVER	
MARSHALL DD-676		SURVEILLANCE	
MEDREGAL SS-480		OBSERVER, DATA COLLECTION	
MOLALA ATF-106		TOW SHIP	
MOLOLA		TOW SHIP FOR BAUSELL	
MONTICELLO LSD-35		PRE-OP. ACTIVITIES, FLAG, LOGISTICAL SUPPORT,	
MUNSEE ATF-107		TARGET RAFT SET-UP, OBSERVER	
NEWELL DER-322		WEATHER BALLOON OPS., SURVEILLANCE	
NORTON SOUND AVM-1		FLAG, POLARIS LAUNCH OBSERVER	
OAK HILL LSD-7		OBSERVER	
O'BANNON DDE-450		SURVEILLANCE	
PAGE COUNTY LST-1076		LOGISTICAL SUPPORT	
PFORT MARION LSD-22		OBSERVER	
POINT BARROW T-AKD-1		SCIENCE OBSERVATION, ROLLUP LOGISTICAL SUPPORT	
POINT DEFIANCE LSD-31		PRE-OP. RECON., ROLLUP OPS.	
POLK COUNTY LST-1084		PRE-OP. LOGISTICAL SUPPORT, OBSERVER	
PONCHATOULA AO-148		FUEL	
PRESTON DD-795		SURVEILLANCE, OBSERVER	
PRINCETON LPH-5		FLAG, OBSERVER OF OVERHEAD BLASTS	

PVT. FRANK S. PETRARCA T-AK-250		SCIENCE OBSERVATION, ROLLUP LOGISTICAL SUPPORT	
RANGE TRACKER T-AGM-1		RANGE INSTRUMENTATION, RANGE SAFETY CONTROL FOR HIGH ALTITUDE TESTS	
RAZORBACK SS-394		WEAPONS SYSTEMS & EFFECTS TEST	
RECLAIMER ARS-42		LOGISTICS, DEEP SEA MOORING OPS.	
RICHARD B. ANDERSON DD-786		BACK-UP ASROC FIRING SHIP	
ROWAN DD-872		OBSERVER, PATROL, SURVEILLANCE	
SAFEGUARD ARS-25		POD RECOVERY, OBSERVER, RAFT RECOVERY,	
SAMUEL B. MOORE DD-747		PATROL, OBSERVER	
SEA FOX SS-402		WEAPONS SYSTEMS & EFFECTS TEST	
SIOUX ATF-75		SURVEILLANCE, NOSSECONE RECOVERY, RADIATED WATER RECOVERY, POD RECOVERY	
SNOHOMISH COUNTY LST-1126		LOGISTICAL SUPPORT	
SOUTHERLAND DDR-743		SURVEILLANCE, OBSERVER, SURVEILLANCE OF SOVIET SURVEY GROUP	
SUMMIT COUNTY LST-1146		LOGISTICAL SUPPORT, OBSERVER	
TAKELMA ATF-113		NOSECONE RECOVERY	
TAWAKONI ATF-114		NOSECONE RECOVERY, HYDROPHONIC EQUIPMENT RECOVERY	
TAYLOR DDE-468		SURVEILLANCE	
TOLOVANA AO-64		FUEL, AIR BLAST OBSERVER	
UTE ATF-76		TOWING, SURVEILLANCE, LOGISTICS	
WALKER DDE-517		SURVEILLANCE	
YORKTOWN CVS-10		ASW, OBSERVER	
SHOT MILGROW - OCT 2, 1969			
SHIP		ROLE	NOTES
PRINCETON LPH-5		OBSERVER	