

1990



DEPARTMENT OF THE NAVY

FLEET COMPOSITE SQUADRON SIX

NAVAL AIR STATION

NORFOLK, VIRGINIA 23511-5594

IN REPLY REFER TO:

5750

Ser 10/ 274

11 MAR 1991

From: Commanding Officer, Fleet Composite Squadron SIX
To: Director of Naval History (OP-09BH), Washington Navy Yard,
Washington, DC 20374-0571

Subj: COMMAND HISTORY FOR CALENDAR YEAR 90

Ref: (a) OPNAVINST 5750.12E

Encl: (1) Fleet Composite Squadron SIX 1990 Command History
(2) CDR D. C. Fox's Biography and Photograph
(3) Operational Statistics for 1990
(4) Squadron Information Pamphlet

1. In accordance with reference (a), enclosures (1) through (4) are submitted.

D. C. Fox
D. C. FOX

Copy to:
CINCLANTFLT (Code J019)
COMNAVAIRLANT (Code 013)
COMHELTACWING ONE

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FLECOMPRON SIX COMMAND HISTORY

FOR CY-90

1. Command Composition and Organization

a. Mission: To provide remote control aerial and surface target services to units of the Atlantic Fleet. To provide Remotely Piloted Vehicle (RPV) tactical reconnaissance and surveillance services to units of the Atlantic and Pacific Fleets. To provide organizational and partial intermediate and depot level maintenance support, and to train personnel to maintain and operate assigned equipment.

b. ISIC: Commander, Helicopter Tactical Wing ONE.

c. Squadron Composition:

<u>UIC</u>	<u>TITLE</u>
09806	- VC-6 Shore (NAS Norfolk, VA; NAB Little Creek, VA)
32019	- VC-6 Sea Det component (NAB Little Creek, VA; FCTC Dam Neck, VA)
30197	- VC-6 Det Dam Neck (FCTC Dam Neck, VA)
55243	- VC-6 Sea Surveillance Det (NAS Patuxent River, MD)
46550	- VC-6 Shore Surveillance Det (NAS Patuxent River, MD)

d. Squadron Commander: Commander D. C. Fox, USN
Biography and Photograph: (enclosure 2)

e. Squadron Personnel:

- (1) Officers - 23
- (2) Enlisted - 240

f. Headquarters location: Naval Air Station, Norfolk, Virginia.

g. Type and number of assets assigned:

- (1) QST 33 - 8
- (2) QST 35 - 8
- (3) ISTT - 2
- (4) BQM 74 - 22
- (5) DR-3 - 1

(6) Pioneer Remotely Piloted Vehicle (RPV) - 2 Systems (Ground control station, portable control station, five air vehicles, miscellaneous support equipment per system)

2. CHRONOLOGY

Jan: Maint -Support Equipment Workcenter completed first operational run of a QST-33 engine dynamometer.
-Commenced new corrosion control maintenance concept for "yellow gear" requiring a complete disassembly and refurbishment then reassembly
-ICTS improvements in work, "Tiger Team" progress

Det L/C -Deployed to GITMO (14-27)
-Deployed to Mayport (23 Jan-10 Feb)
-DR-3, QST-35 & QST-33 terrorist OPS against USS WISCONSIN
-GUNSHOT - TC HART, CONYINGHAM, BIDDLE & SOUTH CAROLINA

Det D/N -HELO OPS - VIP Conference (8-10)
-POD Flt for ITCS -VFC-12
-Camp Lejeune BQM OPS (18-26)
-Open Ocean USS VALDEZ (19-26)
-HELO OPS -D/N Base Support

Det PAX -DET TWO Flt time 7 Flts - 20.7 Hrs
-DET ONE post deployment wing pre-inspection
-DET ONE post deployment debrief to NAVAIR/OPNAV Pers
-DET ONE post deployment debrief to CNAL
-RPV TACMEMO review at Surface Warfare Development Group

Feb: Maint -BQM-74C engine test cell upgraded with state of the art vibration analysis requiring numerous wiring modifications and adaption of electrical filtration system
-Expended numerous manhours in restoring QST-33 SEPTARS to satisfactory operational and material condition.
-Totally upgraded entire maintenance program including back shop "I" level support for command and control equipment
-ITCS "TIGER TEAM" continues to make progress

Det L/C -Deployed to GITMO (14-27)
-Deployed to Mayport (23 Jan-10 Feb)
-DR-3, QST-35 and QST-33 terrorist OPS against USS WISCONSIN
-GUNSHOT - TC HART, CONYINGHAM, BIDDLE & SOUTH CAROLINA

Det D/N -BQM-74C OPS north mound (8)
-HELO OPS -D/N Base Support (12)
-HELO OPS -D/N Base Support (14)
-BQM-74C OPS north mound (OPS DEPT input)

Det PAX -DET TWO Personnel return from Hawaii (5)

Mar: Maint -AQM-37C ILSMT was conducted at Beechcraft in Wichita, KS. MO & Mr. Baker attended
-ITCS fully operational with 4.0 flt conducted (14). Numerous man-hours expended culmination of approximately seven months of troubleshooting and work.
-Received QST-33 TB 8509, conducted acceptance inspection. Boat is in pretty rough material condition.

Det L/C -Drone OPS (1)
 -Deployed to GITMO (17 Feb-2 Mar)
 -GUNEX with OPTEVFOR (6-7)
 -Drone OPS (15)
 -Deployed to GITMO (16-30)

Det D/N -HELO OPS -D/N Base Support (13)
 -BQM-74C Training OPS for ITCS (14)
 -MED Deployment Det USS SAVANNAH (16-29)
 -HELO OPS with HM-12 Gunnery Range Support (20 & 21)
 -HELO OPS with UH-60B FCDSSA Range Support (26-28)

Det PAX -Met with representative of Rotary Wing Aircraft Test
 Directorate to discuss the feasibility of incorporating RPV
 simulation in proposed generic flight simulator
 -CHTW-1 presents end of cruise awards to DET ONE & MUC for
 previous DET ONE deployment
 -DET PAX conducted first land based OPS since Sept 89. Flew
 6 sorties/4.9 hours
 -Five DET ONE personnel TAD to USS IOWA to conduct system
 check prior to system crossdeck to USS WISCONSIN

Apr: Maint -SE began total rework program of yellow gear completing two
 nitrogen carts two launchers and two maintenance stands
 -AF fabricated two prototype "Hat" boxes for the Vega
 portable radar target control system with shock mounts to
 lesson damage during transportation
 -Packed 13 BQM-74C recovery parachutes in preparation for
 UNITAS
 -QA conducted informal pr-inspection of work centers in
 preparation of semi-annual corrosion inspection

Det L/C -MCPON Visit (6)
 -DET ECHO deployed to GITMO (20 Apr-5 May)
 -Ocean Venture terrorist OPS, DR-3, QST-33, QST-35 (23)
 -DET DELTA deployed to Lake George (26 Apr-8 May)

Det D/N -MCPON visit (6)

May: Maint -SE rework program continues completing 6 launchers, 13
 maint stands and 1 steam cleaner
 -Paraloft fabricated 24 respirator storage bags and
 serviced 28 "float coats" assisting VC-6 RPV DET aboard
 USS WISCONSIN. Finished packing 21 BQM-74C recovery
 parachutes for UNITAS DET
 -Completed CHTW-1 semi-annual corrosion inspection with an
 overall grade of satisfactory. Received one UNSAT in
 Material Control procedures

Det L/C -Drone OPS -DR-3 (3)
 -DET ECHO deployed to GITMO (20 Apr-5 May)
 -DET DELTA deployed to Lake George (26 Apr-8 May)
 -Drone OPS -DR3 (23)
 -Sonar recovery gear search/recovery OPS (23)
 -GUNEX with USS BEARY (23)
 -CHTW-1 Corrosion Inspection

Det D/N -TWO BQM-74C Target support operations
 -CHTW-1 Corrosion Inspection

Det PAX -DET ONE geared up for deployment on USS WISCONSIN
 -DET PAX continues flt training at NESEA. Flew 7 flights
 for 8.9 hrs
 -DET PAX accepts GCS from Marine RPV company

Jun: Admin -Change of Command (29)
 Maint -SE completed corrosion rework on maintenance stands &
 2 launchers
 -Boat Shop prepared and transferred custody of 4 QST-33 to
 L/C Det for deployment to Palmetto Point, NC.
 -Paraloft completed packing of 18 BQM-74C recovery
 parachutes to replenish stock and finish up UNITAS
 requirements
 -Avionics and IMRL worked together with AIMD & NAVAIR on
 site calibration team to establish an on-site calibration
 procedure and program for our BQM-74C engine test cell

Det L/C -DET ECHO deployed to Palmetto Point (1-9)
 -DET DELTA deployed to GITMO (1-18)
 -BQM OPS -lost Drone (11)
 -Formal Zone Inspection (14)
 -BQM OPS -lost Drone (18)
 -DET ECHO deployed to Mayport (20-27)
 -DR-3 transported bodies from CH-46 HELO crash (23)
 -Training trailer arrives (26)
 -OPS with USS ARIES (29)
 -UNITAS XXX detachment deployed on Spruance Class Destroyer,
 USS HAYLER for five month deployment tour of South America

Det D/N -Accepted five new BQM-74C Targets
 -One BQM-74C Target Support Operation

Det PAX -Det ONE deployed on BB-63 for WORK-UPS. Flew 14 Flights
 for 49.4 hrs.
 -Det PAX flew first range flight in two years in RPV
 operating area R4006. Flew 6 flights for 13.8 hrs.
 -RPV demonstration flight for CHTW-1 at NESEA

Jul: Maint -Vega Precision Laboratories of Vienna, VA provided
 technical assistance in correcting discrepancies in AGC
 strength in the Vega 6157 antennas
 -Boat shop overhauled structural damage to QST-33 SN TB8402
 -Support equipment completed major corrosion work on
 2 launchers & 2 bombcats. Preventative maintenance was
 completed on 2 nitrogen carts, 7 maintenance stands &
 7 bombcats

Det L/C -MTIP testing (3)
 -ASU 6 USS GATES (12-13)
 -MAINT DET deploys to Mayport (16-27)
 -Captain's Call -E1-E3 (17)
 -DET ECHO deploys to GITMO (20 Jul-3 Aug)
 -Captain's Call -E5 (23)
 -Captain's Call -E6
 -MAINT DET returns from Mayport
 -Terrorist OPS (31)
 -BQM OPS

Det D/N -Display Target for Langley AFB Air Show

Det PAX -DET ONE prepares for deployment on USS WISCONSIN
 -Flew: 5 flts/13.4 hrs

Aug: Maint -AF completes construction and repair on practice BQM-74C target used for CHTW-1 target recovery training
 -Paraloft & Support Equipment work centers provided a total of 5 personnel to NAS Norfolk GSE to support Operation Desert Shield
 -Boat Shop rebuilds boat trailers #3 & #7

Det L/C -DET DELTA deploys to Mayport (4-19)
 -ASU 6 OPS with USS ELROD & USS HEART (1)
 -DET ECHO returns from GITMO & DET DELTA departs to Mayport (2)
 -Brief with CVW-3 for SINKEK -*7809 (14)
 -ASU 6 OPS with USS MISSISSIPPI & USS SAN JACINTO (16)
 -ASU 6 OPS with USS MCCOY & USS ROBERTS (17)
 -BQM OPS with PMTC (18)
 -SINKEK with CVW-3 -*7809: damaged, but not sunk (19)
 -BQM OPS inner & outer Cap

Det D/N -3 BQM-74C operational support flights
 -PMTC Special OPS (1-22)
 -SRAM Conference -CWO (29-30)

Det PAX -Deployed to NORTH CAROLINA for classified mission. Tasking agency, after demonstration, expressed enthusiasm and a desire to utilize the system again
 -Flew 11 flts/17.2 hrs.
 -RPV Det I deploys on WISCONSIN for routine six month deployment
 -Provided two personnel, AS rating, TAD to HM-14 in support of Operation Desert Shield

Sep: Maint -AF with help from PP & 1st LT, completed manufacture of 8 radar boxes for use by Det L/C, Det PAX & UNITAS XXX
 -Provided 10 BQM-74C MAINT TECHS in support of Operation Desert Shield
 -COMHELWINGSLANT visit
 -Provided QST-33 & BQM-74C for static display at the Neptune Festival Air Show at NAS Oceana, VA

Det L/C -DET DELTA Deployed to GITMO (4-21)
 -ASU 6 OPS with USS PATTERSON (6)
 -BQM OPS inner & outer Cap (12)
 -BQM OPS inner & outer Cap (18)
 -DET DELTA returns from GITMO (19)
 -HIV testing (26)
 -BQM OPS inner & outer Cap (26)
 -ASU 6/8 with USS NORMANDY (29)

DET D/N -Accepted five more new BQM-74C Targets
 -Four BQM-74C operational support flights
 -NFSC -English on site
 -Four targets sent to Open Ocean deployment
 -Neptune Festival Air Show Display Target
 -ITCS Spare Parts Conference in Washington, DC -CWO
 -AQM-37C Training started at NAS Oceana Weapons
 -Special Det departs for California to provide training of Air Force personnel attached to 4468th TACRERON Group in

support of Operation Desert Shield

Det PAX -PMTTC directed 64 pieces of support equipment shipped to forces in support of Operation Desert Shield

-Participated in NAS Patuxent River Air EXPO '90 Airshow. This was the first time an RPV was included in the flight demonstration portion of an Airshow.

-Land base rocket assisted launch for Public viewing

-Flew: 2 flts/2.3 hrs.

Oct: Maint -Deployed four QST-33 SEPTARS to Lake George, FL. #8415 took direct hit, requiring extensive repairs

-Paraloft manufactured cervical collar bags for rescue equipment in support of NAVBASE Fire Dept.

-Commenced pre-Admat preparations

-Paraloft completed packing of 6 BQM-74C recovery parachutes to replenish stock

-3 QST-33 SEPTARS utilized in Norfolk Harbor for routine terrorist operations.

Det L/C -ASU-6 with USS FLATELY (2)

-Training Audit (3)

-Coxswain Board (4)

-DET DELTA Deployed to Lake George (8)

-Brief USS SCOTT (9)

-BQM OPS inner & outer Cap (10)

-CW03 Fannon reports onboard as OIC (12)

-ASU-6 with USS SCOTT (17)

-DET DELTA returns from Lake George (20)

-BQM OPS inner & outer Cap (22-23)

-BQM OPS for FITWING (25)

-BQM backup (26)

-Command Assessment Survey (29)

-QST-33 Terrorist OPS (31)

Det D/N -Special Det of 10 personnel departs CONUS for Saudi Arabia

-Vega Training Operation

Det PAX -Crossdeck from USS NEW JERSEY TO USS MISSOURI

-First RPV flt off USS MISSOURI (4)

Nov: Maint -Paraloft completes packing of 10 BQM-74C recovery parachutes to replenish stock

-Paraloft manufactures respirator covers for fire station

-Support equipment workcenter RFI'd one 454 engine as two 305 engines

AF manufactured book shelves, storage shelves & hampers for homeless shelter

-SEPTAR users conference at Pt Mugu, CA -ATCS Patten

-3 QST-33 SEPTAR utilized in Norfolk Harbor for routine terrorist operations

Det L/C -QST-33 Familiarization Class (5-8)

-Detachment Change of Command (7)

-Deployed to GITMO (1-14)

-Brief USS TICONDEROGA (13)

-Coxswain Board (14)

-BQM OPS inner & outer Cap (15)

-QST-35 participated in salvage OPS for downed A6-E Intruder

off coast of Virginia Beach (16)
 -Command Zone Inspection (20)
 -OP-CHK TWO QST-33 (21)
 -DET DELTA departs for Mayport, FL (23)
 -Terrorist OPS (26)
 -GITMO debrief (27)
 -SINKEK with CVW-6 (28)

Det D/N
 -Pack out for Camp LeJeune operation (7)
 -Installed AFC kits

Det PAX
 -Special detachment supports Operation Desert Shield
 -RPV DET TWO deploys on MISSOURI for accelerated six month deployment
 -RPV DET ONE deployed aboard WISCONSIN in support of Operation Desert Shield

Dec: Admin
 -ISIC inspection (10-14) with no major discrepancies and grade of satisfactory

Maint
 -Completed CHTW-1 ADMAT & semi-annual inspection with overall grade of satisfactory received repeat unsat in Material Control. Procedures will be reinspected within 60 days
 -Paraloft completed packing of 8 BQM-74C recovery parachutes to replenish stock
 -Personnel return from Operation Desert Shield

Det L/C
 -QST-33 T88411 was sunk during sinkex at Mayport, FL
 -BQM OPS inner & outer Cap (3-4)
 -ISIC Inspection (5-14)
 -Airlift Mayport, FL to provide accelerated training for USS FORRESTAL/CVW-6 Battle Group in preparation for anticipated deployment (8)
 -SINKEK (14)
 -TRIMARAN OPS (15-18)
 -OPS with USS TICONDEROGA
 -ISTT SINKEK (20)
 -QST-33 SINKEK -Mayport, FL (21)
 -Brief MARDESEC-5 (21)
 -DET DELTA returns from Mayport, FL (23)
 -Terrorist OPS with USS T. ROOSEVELT & USS AMERICA Battle Groups

Det D/N
 -Personnel assigned to Special Det in support of Operation Desert Shield returned to VC-6
 -UNITAS XXX Detachment returned from a five month deployment with the highest BQM-74C success rate ever received by a deployed unit
 -Det deploys to Mayport, FL to provide accelerated training for USS FORESTALL/CVW-6 battle group in preparation for anticipated deployment

Det D/S
 -LTJG Box, OIC, establishes RPV Logistics Support Facility, Bahrain (8)
 -Commenced receiving support package from AAI Baltimore (25)
 -During first 30 days, filled close to 150 separate material requisitions to 6 supported field units -3 Marine, 1 Army & 2 Navy
 -Overhauled, turned & RFI'd 8 air vehicle engines in 11 days

- Inventoried/stocked over 600 line items of parts
- Daily track an average of 150 outstanding requisitions
- Desert Storm commenced
- Personnel issued M-16's (18)
- Personnel on full alert for Iraqi SCUD missile launches
- Travel to northern Saudi Arabia in support of all Desert Storm RPV units

3. Narrative

1990 was a year of initiatives for Fleet Composite Squadron SIX.

The occupation of Kuwait meant VC-6 was actively involved in Operation Desert Shield with close to one quarter of the squadron deployed to the theater of operation. Both Remote Piloted Vehicle (RPV) detachments were immediately deployed to the Persian Gulf with RPV Det ONE aboard the USS WISCONSIN and RPV Det TWO aboard USS MISSOURI. In between, the restoration of the ITCS at Dam Neck Detachment was a major concern. The ITCS came to full mission capability in March after an extended repair cycle. The use of a dynamometer in troubleshooting and repair of engines was explored with success. These initiatives were implemented across the entire spectrum of responsibilities for VC-6 and included: Combat deployment of the two RPV detachments on battleships which had not previously utilized the critical system; use of the RPV for special high level CNO tasking; deployment of the VC-6 Det UNITAS aboard a Spruance Class destroyer; full implementation of the squadron's new Drone Recovery Vessel, DR-3; use of BQM-74C personnel in support of special CNO tasking in support of Operation Desert Shield; the first ever support of the critical high speed aerial target AQM-37C; and the addition of the Improved Tow Targets (ISTT) to the target community's complement of training assets.

After extensive troubleshooting in obtaining minimum AGC strength in the Vega 6157 antenna, a technical assistance visit was requested and the Vega system was again fully operational ensuring success in future operations.

A significant increase in aerial target operations was realized with the acceptance of five new BQM-74Cs which brought VC-6's aerial target total to 15. Out of these assets, UNITAS XXX employed six targets for this year's five month deployment. With the acceptance of System One GCS, Det Patuxent River gained the capability to conduct land based operations which Det TWO successfully executed during a CNO Special Project Sea Base Operation. During Detachment ONE's participation in a heavy operations engagement in the Puerto Rican operating area, and what has later proven invaluable in the Kuwaiti theater of operations, the RPV conducted a Battle Damage Assessment (BDA) of an Airwing Strike. The information and quality that the 'Real Time' BDA provided impressed observers. Overall, operation of both RPV detachments significantly proved their worth 'under fire' for surveillance, BDA, gun spotting (NGFS), and reconnaissance. A crossdeck of the NEW JERSEY RPV system to USS MISSOURI was conducted flawlessly prior to Desert Shield. Additionally, the new AQM-37C Training Track was started, adding a new target to the VC-6 target family.

While increasing their normal surface deployment operations from Norfolk, GITMO, Mayport, and Lake George, Det Little Creek received two 28 foot Improved Surface Tow Targets (ISTT). These medium weight tow targets towed behind the QST-35 should enhance gunnery training services. During a scheduled SINKEX, the ISTT proved an effective addition to the target training community's complement of assets.

While not only receiving VIP visits from both COMHELWINGSLANT and the MCPON, a demand for VC-6 participation in airshows doubled between FY-89 and FY-90.

4. Supporting Documents

- a. Operations Statistics for 1989 (enclosure 3)
- b. Squadron Information Pamphlet (enclosure 4)



OPERATIONS STATISTICS FOR JANUARY 1990

<u>QM-74C</u>	<u>JAN 89</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>	<u>FY89</u> <u>NUMBER</u>
LAUNCHES	2.0	14.0	26.0
SAT LAUNCHES	2.0	14.0	23.0
SAT MSNS	2.0	14.0	20.0
RECOVERIES	0.0	10.0	20.0
OP LOSSES	1.0	1.0	5.0
HIT & KILL	1.0	3.0	1.0
OP HOUR	1.2	7.7	16.8
 <u>QST-35</u>			
LAUNCHES	16.0	44.0	293.0
SAT MSNS	16.0	37.0	263.0
OP HOURS	29.7	118.0	936.5
 <u>QST-33</u>			
LAUNCHES	2.0	4.0	10.0
SAT MSNS	2.0	4.0	8.0
OP HOURS	5.6	24.0	50.0
 <u>DR-3</u>			
LAUNCHES	2.0	6.0	16.0
OP HOURS	12.0	33.5	134.6

VC-6
Encl(3)





OPERATIONS STATISTICS FOR FEBRUARY 1990

<u>BQM-74C</u>	<u>FEB 90</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>	<u>FY89</u> <u>NUMBER</u>
LAUNCHES	2.0	16.0	26.0
SAT LAUNCHES	1.0	15.0	23.0
SAT MSNS	1.0	15.0	20.0
RECOVERIES	2.0	12.0	20.0
OP LOSSES	0.0	1.0	5.0
HIT & KILL	0.0	3.0	1.0
OP HOUR	1.1	8.8	16.8

QST-35

LAUNCHES	20.0	64.0	293.0
SAT MSNS	20.0	57.0	263.0
OP HOURS	49.7	167.0	936.5

QST-33

LAUNCHES	2.0	6.0	10.0
SAT MSNS	1.0	5.0	8.0
OP HOURS	2.5	26.5	50.6

DR-3

LAUNCHES	3.0	9.0	16.0
OP HOURS	15.4	48.0	134.6





OPERATIONS STATISTICS FOR MARCH 1989

<u>BQM-74C</u>	<u>MAR 90</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>	<u>FY89</u> <u>NUMBER</u>
LAUNCHES	3.0	19.0	26.0
SAT LAUNCHES	2.0	17.0	23.0
SAT MSNS	2.0	17.0	20.0
RECOVERIES	2.0	14.0	20.0
OP LOSSES	0.0	1.0	5.0
HIT & KILL	1.0	4.0	1.0
OP HOUR	1.0	9.8	16.8
 <u>QST-35</u>			
LAUNCHES	10.0	74.0	293.0
SAT MSNS	10.0	67.0	263.0
OP HOURS	18.0	185.0	936.5
 <u>QST-33</u>			
LAUNCHES	2.0	8.0	10.0
SAT MSNS	2.0	7.0	8.0
OP HOURS	3.0	29.5	50.6
 <u>DR-3</u>			
LAUNCHES	2.0	11.0	16.0
OP HOURS	25.0	73.9	134.6

VC-6
Encl (2)



OPERATIONS STATISTICS FOR APRIL 1980

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<u>BQM-74C</u>	<u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>	<u>FY89</u> <u>NUMBER</u>
LAUNCHES	4.0	23.0	26.0
SAT LAUNCHES	3.0	20.0	23.0
SAT MSNS	2.0	19.0	20.0
RECOVERIES	2.0	16.0	20.0
OP LOSSES	1.0	2.0	5.0
HIT & KILL	1.0	5.0	1.0
OP HOUR	2.0	11.8	16.8

QST-35

LAUNCHES	24.0	98.0	293.0
SAT MSNS	24.0	91.0	263.0
OP HOURS	59.4	244.0	936.5

QST-33

LAUNCHES	6.0	14.0	10.0
SAT MSNS	6.0	13.0	8.0
OP HOURS	2.8	32.3	50.6

DR-3

LAUNCHES	2.0	13.0	16.0
OP HOURS	7.0	80.9	134.6

Encl (2)



OPERATIONS STATISTICS FOR MAY 1990

	<u>MAY 90</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>	<u>FY89</u> <u>NUMBER</u>
LAUNCHES	3.0	26.0	26.0
SAT LAUNCHES	3.0	23.0	23.0
SAT MSNS	3.0	22.0	20.0
RECOVERIES	2.0	18.0	20.0
OP LOSSES	1	3.0	5.0
HIT & KILL	0	5.0	1.0
OP HOUR	2.0	13.8	16.8

QSI-35

LAUNCHES	14.0	112.0	293.0
SAT MSNS	8.0	99.0	263.0
OP HOURS	28.3	272.3	936.5

QSI-33

LAUNCHES	14.0	28.0	10.0
SAT MSNS	14.0	27.0	8.0
OP HOURS	42.4	74.7	50.6

DR-3

LAUNCHES	3.0	16.0	16.0
OP HOURS	17.0	97.3	134.6



OPERATIONS STATISTICS FOR JUN 1990

	<u>JAN</u> <u>MAR 90</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>	<u>FY89</u> <u>NUMBER</u>
<u>BQM-74C</u>			
LAUNCHES	1.0	27.0	26.0
SAT LAUNCHES	1.0	24.0	23.0
SAT MSNS	0.0	22.0	20.0
RECOVERIES	0.0	18.0	20.0
OP LOSSES	1	4.0	5.0
HIT & KILL	0	5.0	1.0
OP HOUR	0.5	14.3	16.8
<u>QST-35</u>			
LAUNCHES	30.0	142.0	293.0
SAT MSNS	28.0	127.0	263.0
OP HOURS	83.4	355.7	936.5
<u>QST-33</u>			
LAUNCHES	12.0	40.0	10.0
SAT MSNS	6.0	33.0	8.0
OP HOURS	24.2	98.9	50.6
<u>DR-3</u>			
LAUNCHES	4.0	20.0	16.0
OP HOURS	36.4	133.7	134.6

Encl



OPERATIONS STATISTICS FOR JUL 1990

<u>BQM-74C</u>	<u>JUL90</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>	<u>FY89</u> <u>NUMBER</u>
LAUNCHES	2.0	29.0	26.0
SAT LAUNCHES	2.0	26.0	23.0
SAT MSNS	2.0	24.0	20.0
RECOVERIES	1.0	19.0	20.0
OP LOSSES	1	5.0	5.0
HIT & KILL	0	5.0	1.0
OP HOUR	1.6	15.9	16.8
<u>QST-35</u>			
LAUNCHES	14.0	156.0	293.0
SAT MSNS	10.0	137.0	263.0
OP HOURS	84.9	440.6	936.5
<u>QST-33</u>			
LAUNCHES	4.0	44.0	10.0
SAT MSNS	4.0	37.0	8.0
OP HOURS	18.0	116.9	50.6
<u>DR-3</u>			
LAUNCHES	9.0	24.0	16.0
OP HOURS	37.7	171.4	134.6



OPERATIONS STATISTICS FOR AUG 1990

<u>BQM-74C</u>	<u>AUG90</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>	<u>FY89</u> <u>NUMBER</u>
LAUNCHES	9.0	38.0	26.0
SAT LAUNCHES	9.0	35.0	23.0
SAT MSNS	9.0	33.0	20.0
RECOVERIES	9.0	28.0	20.0
OP LOSSES	0.0	5.0	5.0
HIT & KILL	0.0	5.0	1.0
OP HOUR	6.7	22.6	16.8
 <u>QST-35</u>			
LAUNCHES	26.0	182.0	293.0
SAT MSNS	20.0	157.0	263.0
OP HOURS	138.3	578.9	936.5
 <u>QST-33</u>			
LAUNCHES	0.0	44.0	10.0
SAT MSNS	0.0	37.0	8.0
OP HOURS	0.0	116.9	50.6
 <u>DR-3</u>			
LAUNCHES	11.0	35.0	16.0
OP HOURS	87.5	258.9	134.6



OPERATIONS STATISTICS FOR SEP 90

<u>BQM-74C</u>	<u>SEP90</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>	<u>FY89</u> <u>NUMBER</u>
LAUNCHES	10.0	48.0	26.0
SAT LAUNCHES	8.0	43.0	23.0
SAT MSNS	8.0	41.0	20.0
RECOVERIES	10.0	38.0	20.0
OP LOSSES	0.0	5.0	5.0
HIT & KILL	0.0	5.0	1.0
OP HOUR	6.7	29.3	16.8
 <u>QST-35</u>			
LAUNCHES	15.0	197.0	293.0
SAT MSNS	15.0	172.0	263.0
OP HOURS	83.1	662.0	936.5
 <u>QST-33</u>			
LAUNCHES	0.0	44.0	10.0
SAT MSNS	0.0	37.0	8.0
OP HOURS	0.0	116.9	50.6
 <u>DR-3</u>			
LAUNCHES	3.0	38.0	16.0
OP HOURS	17.6	276.5	134.6
 <u>RPV</u>			
LAUNCHES ASHORE	2.0	78.0	21.0
OP HOURS	1.8	95.9	55.3
LAUNCHES AFLOAT	15.0	44.0	67.0
OP HOURS	60.5	259.7	185.8
TOTAL LAUNCHES	17.0	122.0	88.0
TOTAL OP HOURS	62.3	355.6	241.1



OPERATIONS STATISTICS FOR OCT 90

<u>BQM-74C</u>	<u>OCT90</u> <u>NUMBER</u>	<u>FY91</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>
LAUNCHES	12.0	12.0	48.0
SAT LAUNCHES	10.0	10.0	43.0
SAT MSNS	9.0	9.0	41.0
RECOVERIES	10.0	10.0	38.0
OP LOSSES	2.0	2.0	5.0
HIT & KILL	0.0	0.0	5.0
OP HOUR	7.7	7.7	29.3

QST-35

LAUNCHES	7.0	7.0	197.0
SAT MSNS	7.0	7.0	172.0
OP HOURS	27.8	27.8	662.0

QST-33

LAUNCHES	17.0	17.0	44.0
SAT MSNS	17.0	17.0	37.0
OP HOURS	30.6	30.6	116.0

DR-3

LAUNCHES	0.0	0.0	38.0
OP HOURS	0.0	0.0	276.5

RPV

LAUNCHES ASHORE	3.0	3.0	78.0
OP HOURS	1.0	1.0	95.9
LAUNCHES AFLOAT	0.0 11.0	0.0 11.0	44.0
OP HOURS	20.8 44.4	20.8 44.4	259.7
TOTAL LAUNCHES	4.0 12.0	4.0 12.0	122.0
TOTAL OP HOURS	27.8 45.4	27.8 45.4	355.6

Encl (2)



OPERATIONS STATISTICS FOR NOV 90

<u>BQM-74C</u>	<u>NOV90</u> <u>NUMBER</u>	<u>FY91</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>
LAUNCHES	4.0	16.0	48.0
SAT LAUNCHES	2.0	12.0	43.0
SAT MSNS	2.0	11.0	41.0
RECOVERIES	3.0	13.0	38.0
OP LOSSES	1.0	3.0	5.0
HIT & KILL	0.0	0.0	5.0
OP HOUR	1.7	9.4	29.3
 <u>QST-35</u>			
LAUNCHES	27.0	34.0	197.0
SAT MSNS	25.0	32.0	172.0
OP HOURS	127.6	155.4	662.0
 <u>QST-33</u>			
LAUNCHES	14.0	31.0	44.0
SAT MSNS	14.0	31.0	37.0
OP HOURS	105.8	136.4	116.9
 <u>DR-3</u>			
LAUNCHES	0.0	0.0	38.0
OP HOURS	0.0	0.0	276.5
 <u>RPV</u>			
LAUNCHES ASHORE	.0	3.0	78.0
OP HOURS	.0	1.0	95.9
LAUNCHES AFLOAT	17	28.0	44.0
OP HOURS	53.6	98.0	259.7
TOTAL LAUNCHES	17	29.0	122.0
TOTAL OP HOURS	53.6	99.0	355.6

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Encl (2)



OPERATIONS STATISTICS FOR DEC 90

<u>BQM-74C</u>	<u>DEC90</u> <u>NUMBER</u>	<u>FY91</u> <u>NUMBER</u>	<u>FY90</u> <u>NUMBER</u>
LAUNCHES	9.0	25.0	48.0
SAT LAUNCHES	8.0	20.0	43.0
SAT MSNS	8.0	19.0	41.0
RECOVERIES	3.0	16.0	38.0
OP LOSSES	0.0	3.0	5.0
HIT & KILL	6.0	6.0	5.0
OP HOUR	3.5	12.9	29.3
<u>QST-35</u>			
LAUNCHES	34.0	68.0	197.0
SAT MSNS	32.0	64.0	172.0
OP HOURS	205.2	360.6	662.0
<u>QST-33</u>			
LAUNCHES	6.0	37.0	44.0
SAT MSNS	6.0	37.0	37.0
OP HOURS	19.3	155.7	116.9
<u>DR-3</u>			
LAUNCHES	4.0	4.0	38.0
OP HOURS	26.3	26.3	276.5
<u>RPV</u>			
LAUNCHES ASHORE	0.0	3.0	78.0
OP HOURS	0.0	1.0	95.9
LAUNCHES AFLOAT	15.0	43.0	44.0
OP HOURS	53.7	151.7	259.7
TOTAL LAUNCHES	15.0	44.0	122.0
TOTAL OP HOURS	53.7	151.7	355.6

Encl (2)

