Organizzazione di lancio

SIRIO/Delta e responsabilità

LAUNCH OPERATIONS

NASA - KENNEDY SPACE CENTER PERFORMS:

PROGRAM MANAGEMENT ACTIVITIES

ASSURING THESE ARE MET IN A TIMELY AND RESPONSIVE MANNER FOR LAUNCH VEHICLES AND SPACECRAFT.

OPERATIONS - LAUNCH VEHICLES

PLANNING AND MANAGING LAUNCH SITE OPERATIONS, PROCEDURE REVIEW, TEST EVALUATION AND VERIFYING FUNCTIONAL PERFORMANCE OF HARD-WARE AND SOFTWARE.

OPERATIONS — SPACECRAFT

PLANNING, COORDINATION AND SCHEDULING OF SUPPORT AND INTEGRATED OPERATIONS. RANGE AND VEHICLE CONTRACTOR LIAISON. SAFETY REVIEW OF SYSTEMS AND PROCEDURES.

• INSTITUTIONAL ACTIVITIES

STAFF SUPPORT FOR PERSONNEL, FACILITIES, BUDGET ADMINISTRATIVE AND RELATED LOGISTICS DURING PLANNING AND OPERATIONAL PHASES.

SPACECRAFT LAUNCH OPERATIONS

NASA - KENNEDY SPACE CENTER PROVIDES:

FACILITIES

LABORATORIES, OFFICES, CONTROL CENTER EXPLOSIVE SAFE AREAS LAUNCH COMPLEX

EQUIPMENT

ANTENNAS AND DATA TRANSMISSION SYSTEMS COMMUNICATIONS AND TIMING ELECTRICAL POWER SYSTEMS ENVIRONMENTAL CONTROL SYSTEMS

SERVICES AND SUPPLIES

GASES, PROPELLANTS, CHEMICALS INSTRUMENT CALIBRATION AND REPAIR PHOTOGRAPHY SHOPS VISITOR CONTROL SAFETY TRAINING AND SURVEILLANCE FIRE PROTECTION **EMERGENCY MEDICAL ATTENTION** LOCAL TRANSPORTATION FOR EQUIPMENT REPRODUCTION AND PRINTING OFFICE SUPPLIES MAIL SERVICE MATERIAL ANALYSIS RADIOGRAPHY CHEMICAL CLEANING RADIO FREQUENCY CONTROL AND ANALYSIS

SPACECRAFT AND SUPPORT OPERATIONS DIVISION, KSC

- RESPONSIBLE FOR SUPPORT, COORDINATION AND OPERATIONAL CONTROL OF ALL UNMANNED SPACECRAFT ACTIVITIES AT KSC
- RESPONSIBLE FOR PROVIDING SPACECRAFT USERS
 - FACILITIES
 - * EQUIPMENT
 - SERVICES
 - SUPPLIES

LAUNCH SITE FACILITIES

- S/C LABORATORY
 - SPACECRAFT RECEIVING, ASSEMBLY, AND CHECKOUT
- SOLID PROPELLANT STORAGE AREA
 - APOGEE MOTOR X RAY, BUILDUP, AND CHECKOUT
- O DELTA SPIN TEST FACILITY
 - APOGEE MOTOR INSTALLATION
 - HYDRAZINE LOADING
 - S/C ALIGNMENT CHECKS
 - THIRD STAGE/SPACECRAFT MATE
- LAUNCH COMPLEX 17
 - THIRD STAGE/SPACECRAFT MATE TO VEHICLE
 - FINAL SPACECRAFT CHECKOUT
 - SHF TESTING
 - LAUNCH

SPACECRAFT LABORATORY

- KSC MAINTAINS FOUR SPACECRAFT CHECKOUT FACILITIES
 - HANGAR S
 - · HANGAR AE
 - BUILDING AM
 - · BUILDING AO
- HANGAR S TENTATIVELY SELECTED FOR USE AS SIRIO SPACECRAFT LABORATORY

SOLID PROPELLANT STORAGE AREA

- **OSTORAGE MAGAZINES**
 - ORDNANCE AND SOLID PROPELLANT MOTOR STORAGE
- MISSILE RESEARCH TEST BUILDING (MRTB)
 - RECEIVING INSPECTION
 - APOGEE MOTOR BUILDUP
- NONDESTRUCTIVE TEST LABORATORY (NDTL)
 - APOGEE MOTOR X-RAYING
- ELECTRICAL-MECHANICAL TESTING FACILITY (EMT)
 - ORDNANCE BRIDGEWIRE RESISTANCE CHECKS
 - SAFE AND ARM DEVICE CHECKOUT

DELTA SPIN TEST FACILITY

- SPACECRAFT ACTIVITIES
 - APOGEE MOTOR INSTALLATION
 - SPACECRAFT ALIGNMENT CHECKS
 - HYDRAZINE LOADING
 - HAZARDOUS SYSTEMS TESTS
- LAUNCH VEHICLE ACTIVITIES
 - THIRD STAGE BUILDUP
 - ATTACH FITTING INSTALLATION
 - TELEMETRY INSTALLATION
 - COMPOSITE ELECTRIC CHECKS
 - THIRD STAGE ORDNANCE INSTALLATION
- JOINT LAUNCH VEHICLE/SPACECRAFT ACTIVITIES
 - SPACECRAFT WEIGHING
 - THIRD STAGE/SPACECRAFT MATE
 - HANDLING CAN INSTALLATION

LAUNCH COMPLEX 17

WHITE ROOM

- PROVIDES A CLEAN ENVIRONMENT FOR THE SPACECRAFT
- SIRIO ON-STAND FUNCTION TEST
- SHF EXPERIMENT TESTING.
- SAFE-ARM DEVICE CHECKOUT
- MDA PURGE
- FLIGHT SIMULATION

BLOCKHOUSE

- REMOTE SPACECRAFT STATUS MONITORING VIA UMBILICAL CONNECTION TO THE GANTRY FOR
 - · HAZARDOUS OPERATION
 - · BATTERY TRICKLE CHARGE
 - · FINAL SPACECRAFT STATUS FOR LAUNCH
 - · SAFE-ARM DEVICE ARMING

ROLE OF KSC SPACECRAFT COORDINATOR

ON ARRIVAL OF SPACECRAFT

- COORDINATES EQUIPMENT TRANSPORTATION & HANDLING
- HELPS YOU MOVE IN AND FIND THINGS
- BRIEFS YOU ON FACILITIES, RULES & REGS., ETC.

AT THE SPACECRAFT LAB

- KEEPS FACILITIES OPERATIONAL
- SCHEDULES SUPPORT
- KEEPS YOU INFORMED OF CONDITIONS AFFECTING S/C OPS
- PROVIDES FOR ACCESS CONTROL

AT HAZARDOUS OPERATIONS AREA

- SCHEDULES SAFETY SURVEYS & SURVEILLANCE
- SCHEDULES PROPELLANT, ETC., DELIVERIES AND SUPPORT
- SUPERVISES LAUNCH VEHICLE INTERFACE HARDWARE OPS

SPACECRAFT COORDINATOR

ON THE LAUNCH PAD

- SCHEDULES SAFER SERVICES
- COORDINATES LAUNCH VEHICLE SUPPORT
- MONITORS S/C TASKS
- NEGOTIATES WORK PLAN CHANGES, IF NEEDED

DURING LAUNCH COUNTDOWN

- ACTS AS SPACECRAFT CONTROLLER IN B.H. TO CLEAR TASKS
- KEEPS YOU INFORMED ON VEHICLE STATUS
- REPORTS ON SPACECRAFT STATUS
- COORDINATES SUPPORT
- WORKS OUT RECYCLE PLANS, WHEN NEEDED

SIRIO/DELTA LAUNCH ORGANIZATION

