





WEIGHT DROPPER RELEASES

- •IMPROVED ASCENT/DESCENT WEIGHT RELEASE DESIGN
- FASTER TRANSIT TIMES = LONGER BOTTOM TIMES
 BATTERIES
- •NEW BATTERY CELLS (FULL SET FOR THREE BATTERY ASSEMBLIES)
 - PROVIDED EXCELLENT CAPACITY FOR THE KURZ LEG
 - IDENTIFIED NEW BATTERY CELL MANUFACTURER
- •COMPLETED BATTERY CELL MONITORING CIRCUIT DESIGN
 - ENABLES REAL-TIME INDIVIDUAL CELL MONITORING
 - PROVIDES CAPABILITY TO IMPROVE AVAILABLE POWER

(ACTUAL CELL STATUS VS FULL BATTERY AVERAGING)







VIDEO SYSTEM

- •SUCESSFULLY INTEGRATED SUB-C STILL/HD VIDEO CAMERA
 AS A VIDEO SOURCE TO OBERVER VIDEO
 - DETERMINED/CORRECTED ROOT CAUSE OF ISSUED
 - OBSERVER CAN VIEW IMAGE AND VIDEO ON THEIR MONITORS
- PATZ CAMERA DOME REPLACEMENT
 - MANUFACTURER CORRECTED DOME CRAZING ISSUES
- IMPROVED OBSERVER CAMERA CONTROL FUNCTION
 - IMPROVEMENTS TO CONTROL ISSUES
- •NEW GREEN LASERS ADDED TO PAN AND TILT UNIT
 - AUGMENTS RED LASERS ON OPPOSITE PAN AND TILT UNIT
- NEW SCHILLING WRIST CAMERA
- •TWO SIDUS PAN AND TILT UNITS FULLY UPGRADED
 - UPDATES ALL INTERNAL COMPONENTS AND COMPENSATOR







HYDRAULIC SYSTEM

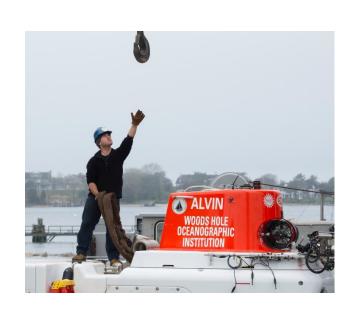
- **•DETERMINED CAUSE OF PERIODIC SYSTEM FAULTS AT DEPTH**
 - FAULTY CLUTCH MECHANISMS REPLACED
 - IDENTIFIED MEANS TO IMPROVE PERFORMANCE (OUTPUT)
 - THROUGH MOTOR CONTROL CONFIGURATION METHOD

NAVIGATION SYSTEM

- •NEW AVTRAK BEACON (NON-SMS)
- NEW TOP-SIDE SPARE SET
- •PRIMARY SHIP-BOARD TRANSDUCER SERVICED BY MFG
- •NEW RDI WORKHORSE DOPPLER
- INTEGRATING NAVIGATION POST-PROCESSING SCRIPTS
 - PROVIDES DAILY POST DIVE NAVIGATION DATA

LIFE SUPPORT

SECOND SCRUBBER INSTALLATED







SENSORS

- PARO-SCIENTIFIC DEPTH TRANSDUCERS CALIBRATED
- •RESON MULTI-BEAM SONAR INSTALLED AND OPERATIONAL
 - EVALUATION OF DATA IN-PROGRESS

SCIENCE EQUIPMENT

- •NEW SPECIAL USE BIO-BOX DESIGN COMPLETED
 - FULLY INSULATED, LEAK-PROOF, LATCHING
 - DESIGNED TO PROTECT SENSITIVE SAMPLES
 - DELIVERY SCHEDULED FOR USE DURING ECS CRUISE
- NEW BASKET DESIGN NEARING COMPLETION
- •PROCURED TWO 'USBL' BURN-WIRE BOTTLES
 - REPLACES OUTDATED LBL BURN WIRE UNITS
 - INITIATE ELEVATOR RECOVERY VIA SMS/USBL

