July 2, 2014 | U.S. [illegible] NOAA Ea[illegible] DIGITAL O2[illegible] | [illegible]MERCE [illegible]earch Lab [illegible] CHECKLIST | FLT # HU928

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/15/2015
INITIALS: BW
PUMP#: 227859

1. Run zero air 10 minutes ✓ (√)
2. PUMP CURRENT: 95.32 (mA)
3. PUMP PRESSURE: >10 (psi)
4. DMT Press/vac: 30 / 20 (in Hg)
5. Bypass cell ✓ (√)
6. Add 5-6cc cathode ✓ (√)
7. 30 MINUTES HI O_3 ✓ (√)
8. 3 MINUTES NO O_3 ___ (√)

9. DUMP CATHODE RINSE: ✓ (√)
10. ADD 3.0 CC FRESH CATHODE # ✓
11. ADD 1.5 CC ANODE SOLUTION: ✓ (√)
12. RUN 10 MINUTES on NO O_3 ✓ (√)
13. **RECORD CURRENT BEFORE O3: BG =** 0.149 µA
14. RUN 10 MINS on 5 µA O_3 ✓ (√) - then switch to NO O_3 AIR.
15. **RECORD: TIME TO DROP FROM 4 TO 1.5 µA:** 33.11 sec.
16. Run sonde for 10 mins on NO O_3 ✓ (√)
17. **RECORD CURRENT: BG =** 0.178 uA
18. Short the cell leads: ✓ (√)
19. Intake tube stored in sonde frame: ✓ (√)
20. Place Sonde inside plastic bag: ✓ (√)
21. Store inside Styrofoam flight box: ✓ (√)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 7/23/2015

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: 0.053 µamps
3. RUN 5 MINS on 5 µamps O_3 ✓ (√) – then switch to NO O_3 AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5 µamps: 24.24 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/1/15
INITIALS: ___

1. Cathode solution # or date written on bottle: 258
2. CHANGE CATHODE SOLUTION (3cc): ✓ (√)
3. CHANGE ANODE SOLUTION (1.5cc): ✓ (Yes/No)
4. RUN ON NO O_3 FOR 10 MINUTES: ✓ (√)
5. RECORD THE NO O_3 BACKGRND#1: BG1= 0.020 µamps
6. RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)
7. SWITCH TO NO O_3 AIR
8. **RECORD:** DECAY TIME TO DROP FROM 4 TO 1.5 µamps: 21.96 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 25.3, ROOM RH (%): 48%
Flowrate Correction: 3.5 (%)
FLOWRATE #1: 29.87 sec
FLOWRATE #2: 30.00 sec
FLOWRATE #3: 29.86 sec
FLOWRATE #4: 29.83 sec
FLOWRATE #5: 29.87 sec
AVERAGE T100: 29.886 sec

dry	27.50	27.53	27.49	27.5067
wet	28.42	28.50	26.49	28.47

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU928
GMT DATE (YYMMDD): 8/1/15
LOCAL DATE: 8/1/15
GMT LAUNCH TIME: ___
LOCAL TIME: 1:14
Operator Initials: CMC
BALLOON SIZE: 1000 Grams:
PAY-OFF-WEIGHT: ___ Grams:
TOTEX ___ Hwoyee ___ PAWAN ___ (√ one)
Burst Alt: ___ (km)
Turn/Burst: ___

O_3 sn: ___
O_3 Flowrate: ___ (sec)
O_3 CELL BACKGROUND (µamps): ___
O_3 Flowrate Correction: ___ (%)
O_3 Ventilation Holes: Y
Radiosonde sn: 035848 Freq: 403 (MHz)

NOAA FPH sn: ___ (if using Frost Point Hygrometer.)

SURFACE PRES: ___ (hPa)
SURFACE TEMP: ___ (C)
SURFACE RH: ___ (%)
Sky Conditions: ___
REMARKS: ___