

**TWP ARCS-1, RESET-2 Visit
Audit-in/out form**

AUDIT-IN 26Aug97		AUDIT-OUT 05Sep97	
SMET		SMET	
Tower			
Physical check	ok		
Alignment	ok		
Data Logger		Data Logger	
Verify data flow	ok	Type:	<u>Smet</u>
Physical check	ok	Location	SMET Tower
Check connections	ok	Serial/Number	#024
Check desiccant	looks good	Part/Number	PNL WD25947
Check for dry air	no air	Configuration Version #	SMT 51025.cfg
Configuration version #			
T/RH		T/RH	
Number		Location	SMET Tower
Verify data flow	ok	Serial/Number	#693979
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	SMT 51025.cfg
Check filter		Factory Calibration Coefficient	
Check for dry air	about 80% RH in air	Data Logger Serial/Number	024

		Other	
ORG		ORG	
Number		Location	By SMET Tower
Verify data flow	ok(no rain)	Serial/Number	03327-C7
Physical check	ok	Part/Number	ORG-115-DA
Check connections	ok	Configuration table Version #	
Check level		Factory Calibration Coefficient	
		Data Logger Serial/Number	024
		Other	Leveled
Wind #1		Wind #1	
Verify data flow	ok	Location	SMET Tower
Physical check	ok	Serial/Number	Didn't bring tower down
Check connections	ok	Part/Number	
Check tracking(direction)	ok	Configuration table Version #	See logger
		Factory Calibration Coefficient	
		Data Logger Serial/Number	024
Wind #2		Wind #2	
Verify data flow	ok	Location	SMET Tower
Physical check	ok	Serial/Number	Didn't bring tower down
Check connections	ok	Part/Number	
Check tracking(direction)	ok	Configuration table Version #	See logger
		Factory Calibration	

		Coefficient	
		Data Logger Serial/Number	024
Solar Panels		Solar Panels	
Physical check	gone		
Check connections	cut		
Battery Box		Battery Box	
Verify data flow	ok	Other	
Physical check	ok		
Check connections	ok		
Load CB is 'On'	ok		
Load disconnect switch in "auto" position?			
Check Battery Charging Source(SP-,SP+)	17.06V		
Check battery voltage			
Note position of charging set points			
Charge mode light on?			
LED off?			

AUDIT-IN		AUDIT-OUT	
GNDRAD		GNDRAD	
Stand			
Physical check	ok		
Data Logger		Data Logger	
Verify data flow	ok	Type:	Smet Rad
Physical check	ok	Location	GRNRAD Stand
Check connections	ok	Serial/Number	#037
Check for dry air		Part/Number	WD25940(PNL)
Configuration version #		Configuration Version #	Gnd70227.cfg
		Factory Calibration Coefficient	?
IRT		IRT	
Number		Location	GRNRAD Stand
Verify data flow	ok	Serial/Number	KT-19.85(should be #865?)
Physical check	ok	Part/Number	PNL/WD1714(should be DOE Prop #WD17514?)
Check connections	ok	Configuration table Version #	
Check settings	ok	Factory Calibration Coefficient	
		Data Logger Serial/Number	#037
NET		NET	
Number		Location	GRNRAD Stand

Verify data flow	ok	Serial/Number	#Q94207
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	looks good	Factory Calibration Coefficient	CF Top 9.33 CF Bott 11.60
Verify Bubble level	centered	Data Logger Serial/Number	#037
PIR		PIR	
Number		Location	GRNRAD Stand
Verify data flow	ok	Serial/Number	#30167
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration Coefficient	4.6
Verify Bubble level (w/hand level)	centered	Data Logger Serial/Number	037
PSP		PSP	
Number		Location	GRNDRAD Stand
Verify data flow	ok	Serial/Number	#31278
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration Coefficient	8.562
Verify Bubble level	centered	Data Logger Serial/Number	#037
Solar Panels		Solar Panels	
Physical check	gone		
Check connections	cut		

Battery Box		Battery Box	
Physical check	ok	Other	
Check connections	ok		
Load CB is 'On'	ok		
Load disconnect switch in "auto" position?	yes		
Check Battery Charging Source(SP-,SP+)	ok, 16.5VDC		
Check battery voltage		Check battery voltage	Max Min Ave
Note position of charging set points			
Charge mode light on?			
LED off?			

AUDIT-IN		AUDIT-OUT	
SKYRAD		SKYRAD	
Stand			
Physical check			
Data Logger		Data Logger	
Verify data flow	ok	Type	Smet Rad
Physical check	ok	Location	SKYRAD Stand
Check connections	ok	Serial/Number	#038
Check for dry-air	ok	Part/Number	PNL#WD25944(previously reported as WD25949?)
Configuration version #		Configuration Version #	Sky70830.cfg
		Factory Calibration Coefficient	
IRT		IRT	Box very dry
Number		Location	SKYRAD Stand
Verify data flow	ok	Serial/Number	#866
Physical check		Part/Number	WD175.5
Check connections		Configuration table Version #	
Check settings		Factory Calibration Coefficient	
		Data Logger Serial/Number	#038
		Other	Box very dry
NIP		NIP	

Number			
Verify data flow	ok	Location	On Brusag tracker on SKYRAD Stand
Physical check	Needs changing?	Serial/Number	#31343
Check connections	ok	Part/Number	
Check bulls eye alignment	ok	Configuration table Version #	
		Factory Calibration Coefficient	8.285
		Data Logger Serial/Number	#038
PIR-D		PIR-D	
Number		Location	on Brusag Tracker onSKYRAD Stand
Verify data flow	ok	Serial/Number	#30012
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration Coefficient	3.36 org
Verify Bubble level	can't tell	Data Logger Serial/Number	#038
Verify shade	ok		
Check Ventilator fan	ok		
PIR-G		PIR-G	
Number		Location	On SKYRAD Stand
Verify data flow	ok	Serial/Number	#29925
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	ok	Factory Calibration	3.63 org

		Coefficient	
Verify Bubble level	ok	Data Logger Serial/Number	#038
Check Ventilator fan	ok		
PSP-D		PSP-D	
Number		Location	On Brusag Tracker on SKYRAD Stand
Verify data flow	ok	Serial/Number	#31291
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration Coefficient	8.676 org, (out of cal on 8/31/97)
Verify Bubble level	ok	Data Logger Serial/Number	#038
Verify shade	ok		
Check Ventilator fan	ok		
PSP-G		PSP-G	
Number		Location	SKYRAD Stand
Verify data flow	ok	Serial/Number	#31724 (should be #31274?)
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	ok	Factory Calibration Coefficient	8.178 (out of cal on 8/31/97)
Verify Bubble level	ok	Data Logger Serial/Number	#038
Check Ventilator fan	ok		
Solar Tracker		Solar Tracker	
Physical check	ok	Location	SKYRAD Stand

Check connections	ok	Serial/Number	PNL#WD24187 (15?)
Check solar alignment	ok	Part/Number	
		Configuration table Version #	
		Factory Calibration Coefficient	
		Data Logger Serial/Number	038
UVB		UVB	
Number		Location	SKYRAD Stand
Verify data flow	ok	Serial/Number	#1899
Physical check	ok	Part/Number	501AV3
Check connections	ok	Configuration table Version #	
Verify Bubble level	ok	Factory Calibration Coefficient	
Check Desiccant	ok	Data Logger Serial/Number	038
Solar Panels		Solar Panels	
Physical check	gone		
Check connections	cut		
Battery Box		Battery Box	
Verify data flow	ok	Other	Moved temp sensor between batteries
Physical check	ok		
Check connections	ok		
Load CB is 'On'	ok		
Load disconnect switch in "auto" position?			
Check Battery Charging	ok, 16.95		

Source(SP-,SP+)			
Check battery voltage			
Note position of charging set points			
Charge mode light on?			
LED off?			
Power Distribution Box			
Physical check	ok		
Check connections	ok		

AUDIT-IN		AUDIT-OUT	
MFRSR		MFRSR	
Head band		Head	
Physical check		Serial/Number	#314
Check connections			
Check level		Level	
Data Logger		Data Logger	
Number		Serial/Number	#2F69
Verify data flow	ok		
Physical check			
Check connections			
Check Fuses			
Battery box			
Verify data flow	ok		
Physical check	ok		
Check connections	ok		
Load CB is 'On'	ok		
Load disconnect switch in "auto" position?			
Check Battery Charging Source(SP-,SP+)	ok,16.67		
Check battery voltage			
Note position of charging set points			

Charge mode light on?			
LED off?			
MPL		MPL	
Number		Serial/Number	NASA#1415030(was prev. reported as1415032)
Verify data flow	ok		
Physical check	ok		
Check connections	ok		
Check shutter system	ok		
Check Porthole Assy	top glass loose		
Check Laser Params	ok, 1 watt		

AUDIT-IN		AUDIT-OUT	
WSI	na	WSI	
		Serial/Number	
WSI - White Box			
Physical check	na		
Check connections	na		
Check Coolant Level	na		
WSI Stand			
Physical check	na		
WSI lite- Blue Box			
Verify data flow	ok		
Verify image quality	two streaks		
Physical check			
Check connections			
Check Nitrogen pressure			
Check Coolant Flow			
Cmra ACP in 'Comp' mde			
Occltr ACP in 'Comp' mde			
Verify tape status			

AUDIT-IN		AUDIT-OUT	
MWR		MWR	
MWR - Instrument		MWR - Instrument	
Number		Serial/Number	WVR#16
Physical check	Teflon starting to look bad		
Check connections	ok		
Check heater	ok		
Power switch 'On'	ok		
Check fan	fan looking bad		
MWR - Computer		MWR - Computer	
Number		Serial no.	
Verify data flow	ok		
Physical check	ok		
Check connections	ok		
MWR Stand			
Physical check	ok		
Ceilometer		Ceilometer	
Ceilometer - Instrument		Ceilometer - Instrument	
Number		Serial/Number	P011009
Physical check	ok	Other	Grounded ceilometer

Check connections	ok		
Check heater?			
Power switch 'On'	on		
Ceilometer - Computer		Ceilometer - Computer	
Number		Number	
Verify data flow	ok	Other	
Physical check	ok		
Check connections	ok		

AUDIT-IN		AUDIT-OUT	
MMWR		MMWR	
T.B.D.		Serial/Number	

AUDIT-IN		AUDIT-OUT	
		SPARES	
		Ventilators	
		No.	
		Data Logger	
		Type: Smet Rad Cal	
		Location	
		Serial/Number	
		Part/Number	
		Data Logger	
		Type: Smet Rad	Rad
		Location	X-Van
		Serial/Number	#023(prev. reported as #039)
		Part/Number	
		Data Logger	
		Type: Smet Rad	Smet
		Location	X-Van
		Serial/Number	39(prev. reported as #023)
		Part/Number	
		Wind Sensors	
		Location	I-Van

		Serial/Number	#18427 vane, #44669 speed
		Part/Number	
		T/RH	
		Location	I-Van
		Serial/Number	#693977
		Part/Number	
		T/RH	
		Location	X-Van
		Serial/Number	#693985
		Part/Number	
		IRT	Upward facing
		Location	I-Van
		Serial/Number	#867
		Part/Number	
		IRT	Downward facing
		Location	I-Van
		Serial/Number	#864
		Part/Number	
		NIP	
		Location	I-Van
		Serial/Number	#31344
		Part/Number	

		ORG	
		Location	I-Van
		Serial/Number	#(001)03333-C7
		Part/Number	ORG-115-DA
		PIR	none
		Location	
		Serial/Number	
		Part/Number	
		PSP	
		Location	I-Van
		Serial/Number	#29917
		Part/Number	
		Hats	
		Rad converter boxes	
		Location	
		NET	
		Location	I-Van
		Serial/Number	Q94207
		Part/Number	
		MFRSR Logger	none
		Location	
		Serial/Number	
		Part/Number	

		MFRSR Head	
		Location	I-Van
		Serial/Number	#228(#226 is what is in OMS and Apple's records)
		Part/Number	
		MPL	
		Location	
		Hard drive #	
		Floppy Drive #	
		SOLAR	
		Panels	

AUDIT-IN		AUDIT-OUT	
E-Van		E-Van	
Check Thermostat	ok	Other	
Check Therm. Batteries	ok	Supplies	
Check 485 Node Unit	ok	Computers	
Check Fire Extinguishers	ok	Equipment	
Check Smoke Alarm			
Check Emergency Lights	ok		
Van Exterior physical check	ok		
Clean Van Interior	ok		
Phone working			
U-Van			
Check Thermostat	ok		
Check Therm. Batteries	ok		
Check 485 Node Unit	ok		
Check Fire Extinguishers	ok		
Check Smoke Alarm	ok		
Check Emergency Lights	ok		
Van Exterior physical chk	ok		
Clean Van Interior	ok		

Check Synergenics DC/UPS	ok		
X-Van		X-Van	
Check Air dryer	broken	Air dryer (T*7035)	
		misc	
GENSET		GENSET	
In 'Auto-startup' mode	ok		
Chk transfer swtch stngs	ok	Spares inventory	
Physical check - Genset	ok	Oil	
Phys chk - ext fuel tank	ok	Filters	
Phys Chk - fuel system	ok	Belts	
Take spares inventory	lots of spares	Hoses	
Power Control Cabinet			
Verify Main pwr swtch 'on'	ok		
Verify Smoke switch on-bypass	online		
Verify power control switch is 'Remote'	remote		
RESET Area			
Turn water heater 'Off'	ok		
Take tool inventory	most are here		
I-Van			

General			
Check Thermostat	ok		
Check Therm. Batteries	ok		
Check 485 Node Unit	ok		
Check Fire Extinguishers	ok, charged		
Check Smoke Alarm	ok		
Check CO alarm	ok		
Check Emergency Lights	ok		
Van Exterior physical chk	ok		
Clean Van Interior	ok		
Check Synergenics DC/UPS	ok		
Phone working			
UPS			
Chk usage indicator lights	ok		
Chk chrg indicator lights	ok		
Verify Bypass switch is 'Remote'	ok		
Power Control Cabinet			
Verify Main pwr	ok		

swtch'On'			
Verify Smoke-detectpr switch is 'Off' bypass	ok		
Verify power control switch is 'Remote'	ok		
D-Van			
General			
Check Thermostat	ok		
Check Therm. Batteries	ok		
Check 485 Node Unit	on		
Check Fire Extinguishers	ok		
Check Smoke Alarm	ok		
Check Emergency Lights	didn't work		
Van Exterior physical chk	ok		
Clean Van Interior	ok		
Check Synergenics DC/UPS	ok		
Check CO alarm			
UPS			
Chk usage indicator lights	ok		
Chk chrge indicator lights	ok		

Verify Bypass switch is 'Remote'	local		
ADaM		ADaM	
Pack data tapes	ok	Software	
Take tape inventory	69 new	Tape inventory	
Air Filter needs to be replaced?	no	Air Filter needs to be replaced?	
Chk phys connections	ok		
Verify Data Flow processes	yes		
Macs/Coms			
Check 485 network	ok		
Witness DL process on the half hour	yes, 970825-23:32:11		
Verify Monitoring Control	ok		
Physical check - GOES antenna	ok		
Physical check - Trimble antenna	ok		
Voltage levels for Macs PV power supplies	DC 14.8, PV 12.9 UP 13.6, AC 119.2		
Check Physical connections	yes, connected		
		Power Control Cabinet	
Power Control Cabinet		Misc.	

Verify Main power switch on 'On'	ok		
Verify Smoke-bypass switch is 'Off'	on line		
Verify power control switch is 'Remote'	local manual		
Solar System			
Phys Check - Solar array	ok		
Physical Check - Regulator Box/CB	rusty		
Physical Check - Batteries/Voltages	12.8 VDC		