

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

AUDIT-IN 18Feb97		AUDIT-OUT	28Feb97
SMET		SMET	
Tower			
Physical check	ok		
Alignment	North		
Data Logger		Data Logger	
Verify data flow	ok	Type:	<u>Smet</u> Rad
Physical check	ok	Location	SMET Tower
Check connections	ok	Serial/Number	#024
Check desiccant	needs changing	Part/Number	WD25947
Configuration version #	Smt51025.cfg	Configuration Version #	Smt51025.cfg
T/RH		T/RH	
Number	#001,693979	Location	SMET Tower
Verify data flow	ok	Serial/Number	#001,693979
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	
Check filter	need to replace	Factory Calibration Coefficient	
		Data Logger Serial/Number	
		Other	replaced filter
ORG		ORG	
Number	#03327-C7	Location	
Verify data flow	ok	Serial/Number	#03327-C7
Physical check	ok	Part/Number	

Check connections	ok	Configuration table Version #	
Check level	+/-1.5 degrees off level	Factory Calibration Coefficient	
		Data Logger Serial/Number	
		Other	Leveled
Wind #1		Wind #1	
Verify data flow	ok	Location	SMET Tower
Physical check	ok	Serial/Number	
Check connections	ok	Part/Number	
Check tracking(direction)	ok	Configuration table Version #	
		Factory Calibration Coefficient	
		Data Logger Serial/Number	
Wind #2		Wind #2	
Verify data flow	ok	Location	SMET Tower
Physical check	ok	Serial/Number	
Check connections	ok	Part/Number	
Check tracking(direction)	ok	Configuration table Version #	
		Factory Calibration Coefficient	
		Data Logger Serial/Number	
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	box cracked at corners		
Check connections	ok		
Load CB is 'On'	yes		
Load disconnect switch in "auto" position?	yes		
Check Battery Charging Source(SP-,SP+)	17.22V		
Check battery voltage	13.36V		
Note position of charging set points	C		
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
		Part/Number	WD25940(PNL)
Configuration version #	Gnd60928.cfg	Configuration Version #	Gnd70227.cfg
		Factory Calibration Coefficient	?
IRT		IRT	
Number	#865	Location	GRNRAD Stand
Verify data flow	ok	Serial/Number	#865
Physical check	ok	Part/Number	KT#19.85/DOE Prop #WD17514
Check connections	cut connections spliced	Configuration table Version #	
Check settings	?	Factory Calibration Coefficient	
		Data Logger Serial/Number	#037
NET		NET	
Number	#Q94207	Location	GRNRAD Stand
Verify data flow	ok	Serial/Number	#Q94207
Physical check	ok	Part/Number	
Check connections	cut connections spliced	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration	CF Top 9.33

		Coefficient	CF Bott 11.6
Verify Bubble level	ok	Data Logger Serial/Number	#037
PIR		PIR	
Number	#30131F3	Location	GRNRAD Stand
Verify data flow	no	Serial/Number	#30167
Physical check	slight rust on exterior	Part/Number	
Check connections	cut connections spliced	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration Coefficient	4.6
Verify Bubble level (w/hand level)	ok	Data Logger Serial/Number	
PSP		PSP	
Number	#29914F3	Location	GRNDRAD Stand
Verify data flow	ok	Serial/Number	#31278
Physical check	slight rust on exterior	Part/Number	
Check connections	cut connections spliced	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration Coefficient	8.562
Verify Bubble level	ok	Data Logger Serial/Number	#037
Solar Panels		Solar Panels	
Physical check	gone!!		
Check connections	cut!!		
Battery Box		Battery Box	
Physical check	ok	Other	Moved temp sensor between batteries
Check connections	cut connections spliced to logger		
Load CB is 'On'	yes		
Load disconnect switch	yes		

in "auto" position?			
Check Battery Charging Source(SP-,SP+)	16.73		
Check battery voltage	12.93	Check battery voltage	Max 13.00 Min 11.88 Ave 12.84
Note position of charging set points	B		
Charge mode light on?	no		
LED off?	yes		

AUDIT-IN		AUDIT-OUT	
SKYRAD		SKYRAD	
Stand			
Physical check	ok		
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	?	Part/Number	WD25949
Configuration version #	Sky60928.cfg	Configuration Version #	Sky70224.cfg (or 70228?)
		Factory Calibration Coefficient	
IRT		IRT	
Number	WD175.5	Location	SKYRAD Stand
Verify data flow	ok	Serial/Number	#866
Physical check	leaks, water inside box	Part/Number	WD175.5
Check connections	ok	Configuration table Version #	
Check settings	ok	Factory Calibration Coefficient	
		Data Logger Serial/Number	#038
NIP		NIP	
Verify data flow	ok	Location	On Brusag tracker on SKYRAD Stand
Physical check	slightly rust on exterior	Serial/Number	#29868
Check connections	ok	Part/Number	
Check bullseye alignment	ok	Configuration table Version #	

		Factory Calibration Coefficient	
		Data Logger Serial/Number	#038
PIR-D		PIR-D	
Number	#30012	Location	on Brusag Tracker onSKYRAD Stand
Verify data flow	ok	Serial/Number	#30012
Physical check	slight rust	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration Coefficient	3.36 (on old tag?)
Verify Bubble level	off	Data Logger Serial/Number	#038
Verify shade	ok		
Check Ventilator fan	ok		
PIR-G		PIR-G	
Number	#29925	Location	On SKYRAD Stand
Verify data flow	ok	Serial/Number	#29925
Physical check	slightly rusty	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration Coefficient	3.63 (on old tag?)
Verify Bubble level	ok	Data Logger Serial/Number	#038
Check Ventilator fan	ok		
PSP-D		PSP-D	
Number	#29915	Location	On Brusag Tracker on SKYRAD Stand
Verify data flow	ok	Serial/Number	#31291
Physical check	slight rust	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration	8.676

		Coefficient	
Verify Bubble level	off same direction	Data Logger Serial/Number	#038
Verify shade	ok		
Check Ventilator fan	ok		
PSP-G		PSP-G	
Number	#29916	Location	SKYRAD Stand
Verify data flow	ok	Serial/Number	#31274
Physical check	slight rust	Part/Number	
Check connections	ok	Configuration table Version #	
Check desiccant	needs changing	Factory Calibration Coefficient	8.178
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	#015
Check solar alignment	ok	Part/Number	
		Configuration table Version #	
		Factory Calibration Coefficient	
		Data Logger Serial/Number	
UVB		UVB	
Number	#1899	Location	SKYRAD Stand
Verify data flow	ok	Serial/Number	#1899
Physical check	ok	Part/Number	
Check connections	ok	Configuration table Version #	
Verify Bubble level	slightly off	Factory Calibration Coefficient	
Check Dessicant	needs changing	Data Logger Serial/Number	

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'	yes		
Load disconnect switch in "auto" position?	yes		
Check Battery Charging Source(SP-,SP+)	13.70		
Check battery voltage	13.61		
Note position of charging set points	C		
Charge mode light on?	yes		
LED off?	yes		
Power Distribution Box			
Physical check			
Check connections			

AUDIT-IN		AUDIT-OUT	
MFRSR		MFRSR	
Head band	Needs adjustment	Head	
Physical check	ok	Serial/Number	#00225
Check connections	ok		
Check level	slightly off	Level	Adjusted, by leveling head - stand bubble is off to SW.
Data Logger		Data Logger	
Number	#038	Serial/Number	#038
Verify data flow	ok		
Physical check	ok		
Check connections	ok		
Check Fuses	ok, but lots of moisture in the power distribution box		
Battery box			
Verify data flow	ok		
Physical check	ok		
Check connections	ok		
Load CB is 'On'	yes		
Load disconnect switch in "auto" position?	yes		
Check Battery Charging Source(SP-,SP+)	13.58		
Check battery voltage	13.56		
Note position of charging set points	B		
Charge mode light on?	yes		
LED off?	yes		

MPL		MPL	
Number	NASA #1415032	Serial/Number	NASA#1415032
Verify data flow	ok		
Physical check	ok, but hard drive problems		
Check connections	ok		
Check shutter system	ok		
Check Porthole Assy	ok		
Check Laser Params	ok		

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 - Blue Box			
Verify data flow	na		
Verify image quality	na		
Physical check	na		
Check connections	na		
Check Nitrogen pressure	na		
Check Coolant Flow	na		
Cmra ACP in 'Comp' mde	na		
Occltr ACP in 'Comp' mde	na		
Verify tape status	na		

AUDIT-IN		AUDIT-OUT	
MWR		MWR	
MWR - Instrument		MWR - Instrument	
Number	#16	Serial/Number	#16
Physical check	ok		
Check connections	ok		
Check heater	ok		
Power switch 'On'	yes		
MWR - Computer		MWR - Computer	
Number	WD18466	Serial no.	WD18466
Verify data flow	ok		
Physical check	ok		
Check connections	ok		
MWR Stand			
Physical check	ok, but supply conduit not watertight		
Ceilometer		Ceilometer	
Ceilometer - Instrument		Ceilometer - Instrument	
Number	#011009	Serial/Number	#011009
Physical check	ok	Other	Grounded ceilometer
Check connections	ok, needs grounding		
Power switch 'On'	ok		
Ceilometer - Computer		Ceilometer - Computer	

Number	WD18465	Number	WD18465
Verify data flow	no, because disc is full	Other	Put in "range normalization" mode
Physical check	ok		
Check connections	ok		

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

AUDIT-IN		AUDIT-OUT	
		SPARES	
		Ventilators	
		No.	2
		Data Logger	
		Type: Smet Rad Cal	Cal
		Location	I-Van
		Serial/Number	WD25952
		Part/Number	
		Data Logger	
		Type: Smet Rad	Rad
		Location	X-Van
		Serial/Number	#039
		Part/Number	
		Data Logger	
		Type: Smet Rad	SMET
		Location	X-Van
		Serial/Number	#023
		Part/Number	
		Wind Sensor	
		Location	I-Van
		Serial/Number	#18427/44669
		Part/Number	
		T/RH	
		Location	I-Van

		Serial/Number	#693977
		Part/Number	
		IRT	Upward facing
		Location	I-Van
		Serial/Number	#867, #864?
		Part/Number	
		IRT	Downward facing
		Location	I-Van
		Serial/Number	#864
		Part/Number	
		NIP	
		Location	I-Van
		Serial/Number	#29869E6
		Part/Number	
		ORG	
		Location	I-Van
		Serial/Number	#03333-C7
		Part/Number	
		PIR	none
		Location	
		Serial/Number	
		Part/Number	
		PSP	
		Location	I-Van
		Serial/Number	#29917
		Part/Number	
		Hats	2 ea.

		Rad converter boxes	7 ea.
		Location	X-Van
		NET	
		Location	I-Van
		Serial/Number	Q94207?
		Part/Number	
		MFRSR Logger	none
		Location	
		Serial/Number	
		Part/Number	
		MFRSR Head	
		Location	I-Van
		Serial/Number	#226
		Part/Number	
		MPL	
		Location	D-Van shelves
		Hard drive #	#958004-301
		Floppy Drive #	#6M06HD-0386
		SOLAR	
		Panels	2 each

AUDIT-IN		AUDIT-OUT	
E-Van		E-Van	
Check Thermostat	ok	Other	New 4 drawer file cabinet
Check Therm. Batteries	?	Supplies	5 reams of paper, Office supply box.
Check 485 Node Unit	ok	Computers	PC, monitor & Laserjet II printer. Spare PC, monitor & Laserjet II printer. MAC for SDL.
Check Fire Extinguishers	ok	Equipment	Officejet LX fax/copier. Toaster oven moved to I-Van for drying dessicant.
Check Smoke Alarm	ok		
Check Emergency Lights	ok		
Van Exterior physical check	Steps bent , roofing cracked at north end		
Clean Van Interior	ok		
Phone working	no		
U-Van			
Check Thermostat	ok		
Check Therm. Batteries	?		
Check 485 Node Unit	ok		
Check Fire Extinguishers	ok		
Check Smoke Alarm	may be broken		
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)	Repaired and in working order
		misc	1 ladder
GENSET	WD24158	GENSET	
In 'Auto-startup' mode	ok		
Chk transfer swtch stngs	ok	Spares inventory	
Physical check - Genset	ok	Oil	yes
Phys chk - ext fuel tank	ok	Filters	yes
Phys Chk - fuel system	ok	Belts	yes
		Hoses	yes
Power Control Cabinet			
Verify Main pwr swtch 'on'	ok		
Verify Smoke switch on-bypass	ok		
Verify power control switch is 'Remote'	ok		
RESET Area			
Turn water heater 'Off'	ok		
Take tool inventory	ok		
I-Van			
General			
Check Thermostat	ok		

Check Therm. Batteries	?		
Check 485 Node Unit	ok		
Check Fire Extinguishers	ok		
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	no		
UPS			
Chk usage indicator lights	ok		
Chk chrg indicator lights	ok		
Verify Bypass switch is 'Remote'	ok		
Power Control Cabinet			
Verify Main pwr switch 'On'	ok		
Verify Smoke-detectpr switch is 'Off' bypass	ok		
Verify power control switch is 'Remote'	ok		
D-Van			

General			
Check Thermostat	ok		
Check Therm. Batteries	?		
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		
Check CO alarm	no		
UPS			
Chk usage indicator lights	ok		
Chk chrg indicator lights	ok		
Verify Bypass switch is 'Remote'	no "manual"		
ADaM		ADaM	
Pack data tapes	none available	Software	Upgraded software
Take tape inventory	50 blank tapes	Tape inventory	60 blank tapes
Air Filter needs to be replaced?	yes	Air Filter needs to be replaced?	Replaced on 2/22/97
Verify Data Flow processes	ok		

Macs/Coms			
Check 485 network	not working 100%		
Witness DL process on the half hour	ok		
Verify Monitoring Control	ok		
Physical check - GOES antenna	ok		
Physical check - Trimble antenna	ok		
Voltage levels for Macs PV power supplies	ok		
Check Physical connections	ok		
Power Control Cabinet		Power Control Cabinet	
Verify Main power switch on 'On'	ok	Misc.	Diode around power control relay installed.(Zirzow)
Verify Smoke-bypass switch is 'Off'	ok		
Verify power control switch is 'Remote'	no, on "local"		
Solar System			
Phys Check - Solar array	ok		
Physical Check - Regulator Box/CB	ok		
Physical Check - Batteries/Voltages	ok		