DEPARTMENT OF THE AIR FORCE
Headquarters Air Force Technical Applications Center
Patrick AFB FL, 32925-6001

CENTER REGULATION 55-2
Volume IX
1 April 1988

SPECIFIC STATION REQUIREMENTS FOR DETACHMENT 452

This regulation establishes the procedures for station unique operations and analysis. It applies to all active duty Air Force members assigned to the station. Personnel who violate the specific prohibitions and requirements of this regulation may be prosecuted under the Uniform Code of Military Justice (UCMJ).

Distribution limited to DoD and DoD contractors only; to protect information and technical data which advance the state-of-the-art or describe new technology in an area of significant or potentially significant military application, 1 April 1988. Other requests shall be referred to HQ/DOSB.

1. Station Designator. The station designator for Detachment 452 is KSRS (Korean Seismological Research Station). Use KSR for the three element entry preceding the station name on data messages.

2. Timing Standards. JJY or BPM.

3. Routine Calibrations. Perform SPS and LPS calibrations sequentially, commencing immediately after 0100Z and 0130Z respectively. The LPS frequency responses may be performed at the rate of one site per day.

4. Data Reports. Submit special data reports in accordance with Volume I. Submit routine data reports within 6 hours of the end of the reporting period.

5. EDIT tape registration numbers are 5100 through 5199.

6. Training Outage. Training outage (IAW Vol I) is granted for Thursday of each week from 2300Z through 0200Z Friday.

7. SPS Develocorder Presentation:

a. Primary Develocorder:

TRACE	DATA	MAG	ASN CHAN	DISP ID	SCALE	DEV SENSE VOLTS
1	SZ1BP36013	1000K	SPDS01	SPL360	1.0	0.61
2	SZ1BP06013	1000K	SPDS02	SPL060	1.0	0.61
3	SZ1BP12013	1000K	SPDS03	SPL120	1.0	0.61
4	SZ1BP18013	1000K	SPDS04	SPL180	1.0	0.61
5	SZ1BP24013	1000K	SPDS05	SPL240	1.0	0.61
6	SZ1BP30013	1000K	SPDS06	SPL300	1.0	0.61
7	SZ1BP00099	1000K	SPDS07	SPZ000	1.0	0.61
8	SZ1BP03013	1000K	SPDS08	SPL030	1.0	0.61
9	SZ1BP28713	1000K	SPDS11	SPL287	1.0	0.61
10	SZ1BP30816	1000K	SPDS12	SPQ308	1.0	0.61
11	SZ1BP33815	1000K	SPDS13	SPP338	1.0	0.61
12	SZ1I75H	250K		SPRW20		2.44
13	SN1I75H	250K		SPRW21		2.44
14	SE1I75H	250K		SPRW22		2.44

b. Secondary Develocorder:

TRACE	DATA	MAG	ASN CHAN	DISP ID	SCALE	DEV SENSE VOLTS
1	SZ1I08	250K		SPRW08		2.440
2	SZ1I14	250K		SPRW14		2.440
3	SZ1I11	250K		SPRW11		2.440

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Editor: SSgt D. M. Pless
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9. Channels transmitted to the TOS:

CHANNEL	DISP ID	SCALE
SPHD01	SPRW01	1.0
SPHD02	SPRW03	1.0
SPHD03	SPRW05	1.0
SPHD04	SPRW07	1.0
SPHD05	SPRW08	1.0
SPHD06	SPRW09	1.0
SPHD07	SPRW10	1.0
SPHD08	SPRW11	1.0
SPHD09	SPRW12	1.0
SPHD10	SPRW13	1.0
SPHD11	SPRW14	1.0
SPHD12	SPRW16	1.0
SPHD13	SPRW17	1.0
SPHD14	SPRW18	1.0
SPHD15	SPRW19	1.0
SPHD16	SPRW15	1.0
SPHD17	SPRW21	1.0
SPHD18	SPRW22	1.0
LPHD01	LPSC1Z	1.0
LPHD02	LPSC1N	1.0
LPHD03	LPSC1E	1.0
LPHD04	LPSC2Z	1.0
LPHD05	LPSC2N	1.0
LPHD06	LPSC2E	1.0
LPHD07	LPSC3Z	1.0
LPHD08	LPSC3N	1.0
LPHD09	LPSC3E	1.0
LPHD10	LPSC4Z	1.0
LPHD11	LPSC4N	1.0
LPHD12	LPSC4E	1.0
LPHD13	LPSC5Z	1.0
LPHD14	LPSC6Z	1.0
LPHD15	LPSC7Z	1.0

10. STPR Designator/Channel Identifier Cross Reference:

STPR DESIGNATOR	CHANNEL ID	INPUT SENSITIVITY
SPRW01	SZ1I01	4.88*
SPRW02	SZ1I02	4.88*
SPRW03	SZ1I03	4.88*
SPRW04	SZ1I04	4.88*
SPRW05	SZ1I05	4.88*
SPRW06	SZ1I06	4.88*
SPRW07	SZ1I07	4.88*
SPRW08	SZ1I08	4.88*
SPRW09	SZ1I09	4.88*
SPRW10	SZ1I10	4.88*
SPRW11	SZ1I11	4.88*
SPRW12	SZ1I12	4.88*
SPRW13	SZ1I13	4.88*
SPRW14	SZ1I14	4.88*
SPRW15	SZ1I15	4.88*
SPRW16	SZ1I16	4.88*
SPRW17	SZ1I17	4.88*
SPRW18	SZ1I18	4.88*
SPRW19	SZ1I19	4.88*
SPRW20	SZ1I75H	4.88*
SPRW21	SN1I75H	4.88*
SPRW22	SE1I75H	4.88*
SPRW23	SZ1I75L	0.0976*
SPRW24	SN1I75L	0.0976*
SPRW25	SE1I75L	0.0976*
LPSC1Z (LPSC11)	LZ1IA	5.0+
LPSC1N (LPSC12)	LN1IA	5.0+
LPSC1E (LPSC13)	LE1IA	5.0+
LPSC2Z (LPSC21)	LZ1IB	5.0+
LPSC2N (LPSC22)	LN1IB	5.0+

NOTE: To normalize the frequency response, divide the return voltage at each frequency by the return voltage at the reference frequency, then multiply by the normalizing factor. The results can then be compared with the values listed in Volume I, to determine if they are within tolerances.

12. STPR CPU Configuration Parameters:

a. CPU 1:

```
CONFIGURATION IDENTIFICATION = Cxxxx-1HL
OPERATE1 IDENTIFICATION = OPERATE1
SITE IDENTIFICATION = 452
LP DATA AND INSTRUMENT TYPE (A,31,36) = 31
NUMBER OF SHORT PERIOD ARRAY CHANNELS = 19
NUMBER OF SHORT PERIOD OTHER CHANNELS = 6
NUMBER OF LONG PERIOD ARRAY CHANNELS = 21
NUMBER OF LONG PERIOD OTHER CHANNELS = 0
NUMBER OF SHORT PERIOD PROCESSES = 16
NUMBER OF LONG PERIOD PROCESSES = 4
SHORT PERIOD FREQUENCY FILTER LENGTH = 99
LONG PERIOD FREQUENCY FILTER LENGTH = 1
AMOUNT OF SHORT PERIOD TIME DELAY REQUIRED = 0
AMOUNT OF LONG PERIOD TIME DELAY REQUIRED = 0
SP COORDINATES:
0,0,0
1,0.853,3.836
2,1.663,5.912
3,2.943,4.021
4,3.208,1.612
5,0.706,1.705
6,-1.104,3.188
7,-1.030,5.041
8,0.338,8.136
9,3.355,7.635
10,4.046,6.004
11,6.106,4.299
12,5.150,2.483
13,4.046,0.408
14,2.207,-0.945
15,0.000,0.000
16,-2.531,1.056
17,-3.855,2.817
18,-3.531,4.892
19,-1.545,6.653
LP COORDINATES:
0,0,0
1,5.959,15.085,C
2,12.506,34.911,C
3,23.275,17.865,C
4,16.256,3.039,C
5,0.000,0.000,C
6,-14.596,13.992,C
7,-7.566,30.371,C
SP FREQUENCY FILTER PARAMETERS:
50
0.0001,-.0001,-.0005,-.0011,-.0016,-.0020,-.0020,-.0017,0.0014,-.0012
-.0011,-.0013,-.0014,-.0011,-.0004,0.0007,0.0019,0.0027,0.0030,0.0029
0.0027,0.0028,0.0034,0.0043,0.0050,0.0049,0.0038,0.0017,-.0007,-.0027
-.0037,-.0041,-.0045,-.0065,-.0103,-.0162,-.0221,-.0266,-.0273,-.0254
-.0224,-.0237,-.0315,-.0481,-.0653,-.0731,-.0456,0.0324,0.2035,0.3910
0.2035,0.0324,-,0456,-.0731,-.0653,-.0481,-.0315,-.0237,-.0224,-.0254
-.0273,-.0266,-.0221,-.0162,-.0103,-.0065,-.0045,-.0041,-.0037,-.0027
-.0007,0.0017,0.0038,0.0049,0.0050,0.0043,0.0034,0.0028,0.0027,0.0029
0.0030,0.0027,0.0019,0.0007,-.0004,-.0011,-.0014,-.0013,-.0011,-.0012
*.0014,-.0017,-.0020,-.0020,-.0016,-.0011,-.0005,-.0001,-.0001
LP FREQUENCY FILTER PARAMETERS:
0
0.9999
SP BEAM PARAMETERS:
SPL360,0,000,13,B
SPL060,0,060,13,B
SPL120,0,120,13,B
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```
-.0319,-.0319,-.0319,-.0319,-.0319,-.0319,-.0319,-.0319,-.0319,-.0319
-.0319,-.0319,-.0319,-.0319,-.0319,-.0319,0.0000,0.0000,0.0000,0.0000
0.0000,0.0000,0.0000,0.0000,0.0000,0.0000,0.0000,0.0000,0.0000,0.0000
0.0000,0.0000,0.0000,0.0000,0.0000
SP PROCESSING DELAY = 80
LP PROCESSING DELAY = 15
SECONDS PER RECORD = 3
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b. CPU 2:

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CONFIGURATION IDENTIFICATION = Cxxxx-2HL
OPERATE2 IDENTIFICATION = OPERATE2
SITE IDENTIFICATION = 452
LP DATA AND INSTRUMENT TYPE (A,31,36) = 31
NUMBER OF SHORT PERIOD ARRAY CHANNELS = 19
NUMBER OF SHORT PERIOD OTHER CHANNELS = 6
NUMBER OF LONG PERIOD ARRAY CHANNELS = 21
NUMBER OF LONG PERIOD OTHER CHANNELS = 0
NUMBER OF SHORT PERIOD PROCESSES = 16
NUMBER OF LONG PERIOD PROCESSES = 4
NO SP CHAN TO BE TRANSMITTED VIA HSM = 18
NO LP CHAN TO BE TRANSMITTED VIA HSM = 15
*NUMBER OF CONTACT SENSOR MONITORS = 6
*NUMBER OF A/D CHANNEL MONITORS = 3
AMOUNT OF SP EDIT TIME DELAY REQUIRED = 0
AMOUNT OF LP EDIT TIME DELAY REQUIRED = 0
SP COORDINATES:
0,0,0
1,0.853,3.836
2,1.663,5.912
3,2.943,4.021
4,3.208,1.612
5,0.706,1.705
6,-1.104,3.188
7,-1.030,5.041
8,0.338,8.136
9,3.355,7.635
10,4.046,6.004
11,6.106,4.299
12,5.150,2.483
13,4.046,0.408
14,2.207,-0.945
15,0.000,0.000
16,-2.531,1.056
17,-3.855,2.817
18,-3.531,4.892
19,-1.545,6.653
LP COORDINATES:
0,0,0
1,5.959,15.085,C
2,12.506,34.911,C
3,23.275,17.865,C
4,16.256,3.039,C
5,0.000,0.000,C
6,-14.596,13.992,C
7,-7.666,30.371,C
SP CALIBRATION DEFAULT PARAMETERS:
0.835,1.0,10,1,010000,0.9,1.1,2.93,8
1.00,1.708
0.5,1.708
0.8,1.708
1.5,1.708
2.0,1.708
2.5,1.708
3.0,1.708
4.0,1.708
LP CALIBRATION DEFAULT PARAMETERS:
0.388,0.04,10,1,013000,0.9,1.1,1.289,7,3
0.040,.194
0.100,1.94
0.067,.194
0.050,.194
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* Monitors may be added/modified at the station's discretion.

OFFICIAL

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Commander

RICHARD E. COOK, SMSgt, USAF
Director of Administration

SUMMARY OF CHANGES
Rewrote in active voice. Deleted references to specific paragraphs in Vol I. Added purpose statement. Added distribution statement. Added CPU 1 & CPU 2 configurations. Changed develocorder displays. Deleted adaptive processes. Added fixed filter processes. Updated format.