Operations

SPECIFIC STATION REQUIREMENTS FOR DETACHMENT 460

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, 25 June 1988. Other requests shall be referred to HQ/DOSB.

1. Station Designator. The station designator for Detachment 460 is ILIL. Mark CEN Forms 10, using the appropriate color, with the first two letters of the station designator.

2. Data Channel Designator. In addition to the requirements of Vol I, add the appropriate letter identifiers (IM, TT, BC, BM, and FX) to BU sites.

3. Timing Standard. Navy Navigation Satellite System time.

4. Routine Calibrations. Perform SPS and LPS calibrations sequentially using the Central Terminal, commencing immediately after 1800Z. Use an amplitude factor 4 (100mu) for the SPS and an amplitude factor 2 (10u) for the LPS.

5. GSOC Calibrations. Coordinate with the GSOC prior to and during GSOC DEV SENSE checks to allow the GSOC to calibrate recorded channels.

6. EDIT tape registration numbers are 5200 through 5299.

7. Training Outage. Outage authorized in Volume I is granted for Wednesday of each week from 2000Z through 2300Z. Coordinate with GSOC prior to interrupting data transmission.

8. Maintenance requirements. Indian Mountain, Burnt Mountain, Beaver Creek, Tatalina, and Fox are exempt for SOP maintenance requirements.

9. Analysis and Data Reporting Requirements. The detachment has additional analysis and reporting requirements.

   a. Report any event recorded on FOX station channels with a S-P time of more than 60 seconds, or signal coda longer than 90 seconds duration on the vertical trace, or having an initial period greater than 0.5 seconds.

   b. In lieu of Vol 1 DRAM reporting requirements, report any DRAM event that is detectable at four or more stations recorded at the detachment.

   c. Data Reporting:

      (1) Transmit comprehensive data reports including event data from unattended locations (BUs) covering periods requested by the GSOC. Include in this report all events extending into, or continuing out of the requested period. Area Form 0-15, Det 460 Work Form, is authorized for use by the station to record analysis information.

         (a) Transmit data reports via TELECON to the GSOC, and follow up by message. Under certain circumstances, the GSOC may request data reports be submitted by message or TELECON only.

         (b) Transmit data messages covering GSOC data requests within 8 hours of the request.

(2)   If the data request covers more than one ZULU day, precede each day's data with a new computer function line (//// YY MM DD). If data are requested over an extended period of time (i.e., implementation of COPAFTAC 55-105, etc.), reporting periods will be IAW CENR 55-2, Vol 1.

(3)   During analysis periods requested by the GSOC, plot epicenter locations (run HYPO 150) against all events. Report events originating in any Area of Interest (AI) using the method specified in the Alert Procedures Handbook.

   d.   Reporting Format.   Report all data, including previously reported AI data in ZIP format as follows:

   (1)   The beginning of this type of message is denoted by the computer function line //// YY MM DD followed by a carriage return where:

      (a)   YY - Last two digits of the year of the data.

      (b)   MM - Month of the data (numerical).

      (c)   DD - Day of the month of the data.

   (2)   Data format.   Events are reported in chronological order regardless of station, and multiple calls for a single event will be grouped together. Each phase entry is reported as A HHMMSSS PH C.XXX M.XXXX P.XXX D.XXX T.X and followed by a carriage return where:

      (a)   A - Station Designator.

         1.   IL - EIELSON
         2.   AL - ALPA
         3.   BC - Beaver Creek
         4.   BM - Burnt Mountain
         5.   IM - Indian Mountain
         6.   TT - Tatalina
         7.   FX - Attu (FOX)

      (b)   HHMMSSS - Phase arrival time in 7 digits.   Colons are not used.

      (c)   PH - Phase designator as indicated below.   Initial PEEP/PIP motion is reported as EP/IP.   Precede the IP (and also the EP for BRAVO REVIEW messages) with the direction of first motion using + or - as appropriate.

PHASE	PH EQUIVALENT
PIP	IP
PEEP	EP
P'	EP
P'2	PKP2
pP	.P
PcP	PCP
PP	PP
PPP	PPP
PKKP	PKKP
P'P'	2PKP
S	S
SKS	SKS
ScS	SCS
SS	SS
SSS	SSS
PcS	PCS
PS	PS
ScP	SCP
SKP	SKP
SP	SP
Lg	SUR
Lq	LQ
Lr	LR
Emerge	E

   (d)   C.XXX - Channel Designator

      1.   C.SPZ - SP Vertical
      2.   C.SPN - SP N/S Horizontal

                    3. C.SPE - SP E/W Horizontal
                    4. C.LPZ - LP Vertical
                    5. C.LPN - LP N/S Horizontal
                    6. C.LPE - LP E/W Horizontal

            (e) M.XXXX - Calculated ground motion in four digits

            (f) P.XXX - Period in seconds and tenths in three digits

            (g) D.XXX - Direction in three digits

            (h) T.X - Type (Only type events reported from IL and FX)

                    1.   T.T - Teleseism (pint)
                    2.   T.Q - Quart
                    3.   T.R - Regional (ounce)
                    4.   T.D - Dram

            (i) An example of a complete message is as follows:

            PART ONE
            //// 88 04 10
            FX 1011345 EP C.SPZ M.0075 P.004 T.D
            FX 1013300 SUR C.SPZ M.0200 P.005
            FX 1014000 LR C.LPZ M.0020 P.170 D.270
            TT 1015123 EP C.SPZ M.0010 P.006
            IM 1015231 EP C.SPZ M.0008 P.007
            IL 1015460 +IP C.SPZ M.0011 P.005 D.280 T.T
            IL 1017100 PCP C.SPZ M.0005 P.007
            BM 1015535 EP C.SPZ M.0013 P.006
            BC 1016077 EP C.SPZ M.0015 P.008
            AL 1025010 LQ C.LPN M.0009 P.200
            AL 1028320 LR C.LPZ M.0010 P.190 D.270
            FFF PART TWO THIS MESSAGE CONTAINS ONE ONE CALLS. THIS MESSAGE
            COVERS THE GSOC DATA REQUEST FROM 1000Z THRU 1030Z 10 APR 88 PD

    e. In order for headquarters to effectively evaluate the station's analysis and reporting
capability, provide selected analysis periods to this headquarters. Procedures for this
evaluation are as follows:

        (1) Analyze 1600 - 2000Z on the 15th day of each month.

        (2) Prepare and transmit a data message, by routine precedence, to HQ DOSB within 8
hours of the end of the analysis period.

        (3) The reported data will be incorporated into the standard Operations Evaluation and
Information Program (CENR 55-7). Notable discrepancies will be provided on the Operations
Evaluation Letter.

        (4) Encourage each shift to analyze available records on a daily basis. Develop a local
training program to maintain peak analysis proficiency.

10. SPS Develocorder Presentations:

    a. Primary Develocorder:

TRACE	DATA	MAG	ASN CHAN	DISP ID	SCALE	DEV SENS VOLTAGE
1	SZ2FP36013IL	2000K	SPDS01	SPIL36	0.941	0.305
2	SZ2FP27013IL	2000K	SPDS02	SPIL27	0.941	0.305
3	SZ2FP30013IL	2000K	SPDS03	SPIL30	0.941	0.305
4	SZ2FP33013IL	2000K	SPDS04	SPIL33	0.941	0.305
5	SZ2FP00099IL	2000K	SPDS05	SPIL99	0.941	0.305
6	SZ2FP35419IL	2000K	SPDS06	SPIL35	0.941	0.305
7	SZ2I61H	500K#	SPDS11	SPRW41	1.0	0.1952
8	SZ2I01FX	50K#	SPDS14	SPRW37@	1.0	0.488
9	SZ2I61L	10K#	SPDS11	SPRW41	1.0	9.76
10	SZ2FP00099IL	2000K#	SPDS07	SPIM99*	3.200	0.305
11	SZ2FP00099BM	2000K#	SPDS08	SPBM99**	3.200	0.305
12	SZ2I01TT	1000K#	SPDS10	SPRW35	0.25	1.22
13	SZ2FP00099BC	2000K#	SPDS09	SPBC99***	3.200	0.305

9 Display recorded on another develocorder channel at equal or different gain.
* Use the following list for display priorities when channels are inop: SZ2I04IM, SZ2I05IM, SZ2I03IM, SZ2I02IM, SZ2I01IM.
** Use the following list for display priorities when channels are inop: SZ2I02BM, SZ2I03BM, SZ2I05BM, SZ2I01BM, SZ2I04BM.
*** Use the following list for display priorities when channels are inop: SZ2I05BC, SZ2I04BC, SZ2I03BC, SZ2I02BC, SZ2I01BC.
9 Use SZ2I61FX when SZ2I01FX is INOP.

   b. Secondary Develocorder:

TRACE	DATA	MAG	ASN CHAN	DISP ID	SCALE	DEV SENS VOLTAGE
1	SZ2I61M	50K9	SPDS11	SPRW41	1.0	1.952
2	SZ2I61H	500K9	SPDS11	SPRW41	1.0	0.1952
3	SN2I61H	500K9	SPDS12	SPRW42	1.0	0.1952
4	SE2I61H	500K9+	SPDS13	SPRW43	1.0	0.1952
5	SZ2I01FX	50K9	SPDS14	SPRW37**	1.0	0.488
6	SN2I61FX	50K9	SPDS15	SPRW45	1.0	0.488
7	SE2I61FX	50K9	SPDS16	SPRW46	1.0	0.488
8	SZ2FP00099IM	100K9	SPDS07	SPIM99@	3.200	6.10
9	SZ2FP00099BM	100K9	SPDS08	SPBM99@@	3.200	6.10
10	SZ2I01TT	100K9	SPDS10	SPRW35	0.25*	1.22
11	SZ2FP00099BC	100K9	SPDS09	SPBC99@@@	3.200	6.10
12	SZ2I61L	10K9	SPDS11	SPRW41	1.0	9.76
13	SZ2I01FXL	5K9	SPDS14	SPRW37**	1.0	4.88

@ Use the following list for display priorities when channels are inop: SZ2I04IM, SZ2I05IM, SZ2I03IM, SZ2I02IM, SZ2I01IM.
@@ Use the following list for display priorities when channels are inop: SZ2I02BM, SZ2I03BM, SZ2I05BM, SZ2I01BM, SZ2I04BM.
@@@ Use the following list for display priorities when channels are inop: SZ2I05BC, SZ2I04BC, SZ2I03BC, SZ2I02BC, SZ2I01BC.
* Change display scale factor to 1.25 for develocorder sensitivity checks.
** Use SZ2I61FX when SZ2I01FX is INOP.
9 Display recorded on another develocorder channel at equal or different gain.
+ Use trace 4 whenever a spare trace is required IAW CENR 55-2 Vol 1.

NOTE 1: Set Display Scale Factor for processed data from each respective array as follows:

Number of Active Ch	Display Scale Factor
1	16.000
2	8.000
3	5.333
4	4.000
5	3.200
6	2.667
7	2.286
8	2.000
9	1.778
10	1.600
11	1.455
12	1.333
13	1.231
14	1.143
15	1.067
16	1.000
17	0.941

NOTE 2: Set SP PGain to 2.0.

NOTE 3: Set Display Scale Factor to 1.0 for all processed channel Develocorder Sensitivity Checks.

NOTE 4: SZ2I18IL and SZ2I19IL are not used in processed data channels.

11. LPS Develocorder Presentation:

TRACE	DATA	MAG	ASN CHAN	DISP ID	SCALE	DEV SENS VOLTAGE
1	LZ5BP3603.5	100K	LPDS01	LPH36Z	5*	0.358
2	LZ5BP3203.5	100K	LPDS02	LPH32Z	5*	0.358
3	LZ5IDH	50K	LPDS03	LPSC41	50*	0.358
4	LN5IDH	50K	LPDS04	LPSC42	50*	0.358
5	LE5IDH	50K	LPDS05	LPSC43	50*	0.358
6	LZ5I61FX	50K	LPDS06	LPSC81	50*	0.358
7	LN5I61FX	50K	LPDS07	LPSC82	50*	0.358
8	LE5I61FX	50K	LPDS08	LPSC83	50*	0.358
9	LZ5IDL	5K	LPDS03	LPSC41	50*	3.580
10	LZ5I61FXL	5K	LPDS06	LPSC81	50*	3.580

* Change display scale factor to 1.0 for develocorder sensitivity checks.

NOTE 1: Should LPD fail, use another site that is within operational tolerances with the following precedence for recording on develocorder channels 3, 4, 5, and 9: LPD, LPE, LPA, and then operator choice.

NOTE 2: LP PGain must be set to 20.0.

12. Channels transmitted to the GSOC:

CHANNEL	DISP ID	SCALE
SPHD01	SPIL36	0.941**
SPHD02	SPIL06	0.941**
SPHD03	SPIL12	0.941**
SPHD04	SPIL18	0.941**
SPHD05	SPIL24	0.941**
SPHD06	SPIL30	0.941**
SPHD07	SPIL99	0.941**
SPHD08	SPRW41	1.0
SPHD09	SPRW04	1.0
SPHD10	SPRW07	1.0
SPHD11	SPRW15	1.0
SPHD12	SPRW35	1.0
SPHD13	SPRW37	1.0
SPHD14	SPRW45	1.0
SPHD15	SPRW46	1.0
SPHD16	SPIM99*	3.200**
SPHD17	SPBM99*	3.200**
SPHD18	SPBC99*	3.200**
LPHD01	LPH36Z	5
LPHD02	LPH09Z	5
LPHD03	LPH18Z	5
LPHD04	LPH27Z	5
LPHD05	LPSC4Z*	50
LPHD06	LPSC4N*	50
LPHD07	LPSC4E*	50
LPHD08	LPSC8Z	50
LPHD09	LPSC8N	50
LPHD10	LPSC8E	50

* Transmit the same channels displayed on the develocorders.

** Set Display Scale Factor for processed data from each respective array as follows:

Number of Active Ch	Display Scale Factor
1	16.000
2	8.000
3	5.333
4	4.000
5	3.200
6	2.667
7	2.286
8	2.000
9	1.778

Number of Active Ch	Display Scale Factor
10	1.600
11	1.455.
12	1.333
13	1.231
14	1.143
15	1.067
16	1.000
17	0.941

13. Data cross-reference lists:

INST	RTID	CT CHANNEL	CT GAIN	STPR CH ID	STFR CGAIN	ISENSE Mu/CT	DEV ID
IL01	SP01+*	S16	48	SPRW16	0.80	0.08	SZ2I01IL
IL02	SP02+	S17	48	SPRW17	0.80	0.08	SZ2I02IL
IL03	SP03+	S18	48	SPRW18	0.80	0.08	SZ2I03IL
IL04	SP04+	S19	48	SPRW19	0.80	0.08	SZ2I04IL
IL05	SP05+	S20	48	SPRW20	0.80	0.08	SZ2I05IL
IL06	SP06+	S21	48	SPRW21	0.80	0.08	SZ2I06IL
IL07	SP07+	S22	48	SPRW22	0.80	0.08	SZ2I07IL
IL08	SP08+	S23	48	SPRW23	0.80	0.08	SZ2I08IL
IL09	SP09+	S24	48	SPRW24	0.80	0.08	SZ2I09IL
IL10	SP10+	S25	48	SPRW25	0.80	0.08	SZ2I10IL
IL11	SP11+	S26	48	SPRW26	0.80	0.08	SZ2I11IL
IL12	SP12+	S27	48	SPRW27	0.80	0.08	SZ2I12IL
IL13	SP13+	S28	48	SPRW28	0.80	0.08	SZ2I13IL
IL14	SP14+	S29	48	SPRW29	0.80	0.08	SZ2I14IL
IL15	SP15+	S30	48	SPRW30	0.80	0.08	SZ2I15IL
IL16	SP16+	S31	48	SPRW31	0.80	0.08	SZ2I16IL
IL17	SP17+	S32	48	SPRW32	0.80	0.08	SZ2I17IL
IL18	SP18+	S33	48	SPRW33	0.80	0.08	SZ2I18IL
IL19	SP19+	S34	48	SPRW34	0.80	0.08	SZ2I19IL
IM01	SP20	S01	48	SPRW01	0.80	0.08	SZ2I01IM
IM02	SP21	S02	48	SPRW02	0.80	0.08	SZ2I02IM
IM03	SP22	S03	48	SPRW03	0.80	0.08	SZ2I03IM
IM04	SP23*	S04	48	SPRW04	0.80	0.08	SZ2I04IM
IM05	SP24	S05	48	SPRW05	0.80	0.08	SZ2I05IM
BM01	SP25	S06	48	SPRW06	0.80	0.08	SZ2I01BM
BM02	SP26*	S07	48	SPRW07	0.80	0.08	SZ2I02BM
BM03	SP27	S08	48	SPRW08	0.80	0.08	SZ2I03BM
BM04	SP28	S09	48	SPRW09	0.80	0.08	SZ2I04BM
BM05	SP29	S10	48	SPRW10	0.80	0.08	SZ2I05BM
BC01	SP30	S11	48	SPRW11	0.80	0.08	SZ2I01BC
BC02	SP31	S12	48	SPRW12	0.80	0.08	SZ2I02BC
BC03	SP32	S13	48	SPRW13	0.80	0.08	SZ2I03BC
BC04	SP33	S14	48	SPRW14	0.80	0.08	SZ2I04BC
BC05	SP34*	S15	48	SPRW15	0.80	0.08	SZ2I05BC
TT01	SP35*	S35	48	SPRW35	0.80	0.08	SZ2I01TT
FX01	SP36	S36	48	SPRW36	0.80	0.08	SZ2I01FX(H)
FX01	SP36*	S37	18	SPRW37	1.0	2.56	SZ2I01FX(M)
IKSZ	BB01+	S38	48	SPRW38	0.80	0.08	SZ2I61H
IKSN	BB01+	S39	48	SPRW39	0.80	0.08	SN2I61H
IKSE	BB01+	S40	48	SPRW40	0.80	0.08	SE2I61H
IKSZ	BB01+*	S41	30	SPRW41	1.0	0.64	SZ2I61M
IKSN	BB01+	S42	30	SPRW42	1.0	0.64	SN2I61M
IKSE	BB01+	S43	30	SPRW43	1.0	0.64	SE2I61M
FKSZ	BB02	S44	18	SPRW44	1.0	2.56	SZ2I61FX
FKSN	BB02*	S45	18	SPRW45	1.0	2.56	SN2I61FX
FKSE	BB02*	S46	18	SPRW46	1.0	2.56	SE2I61FX
LPAZ	LP01	L01	—	LPSC11	1.0	0.167	LZ5IA
LPAN	LP01	L01	—	LPSC12	1.0	0.167	LN5IA
LPAE	LP01	L01	—	LPSC13	1.0	0.167	LE5IA
LPBZ	LP02	L02	—	LPSC21	1.0	0.167	LZ5IB
LPBN	LP02	L02	—	LPSC22	1.0	0.167	LN5IB
LPBE	LP02	L02	—	LPSC23	1.0	0.167	LE5IB

INST	RTID	CT CHANNEL	CT GAIN	STPR CH ID	STPR CGAIN	ISENSE Mu/CT	DEV ID
LPCZ	LP03	L03	--	LPSC31	1.0	0.167	LZ5IC
LPCN	LP03	L03	--	LPSC32	1.0	0.167	LN5IC
LPCE	LP03	L03	--	LPSC33	1.0	0.167	LE5IC
LPDZ	LP04*	L04	—	LPSC41	1.0	0.167	LZ5ID
LPDN	LP04*	L04	--	LPSC42	1.0	0.167	LN5ID
LPDE	LP04*	L04	--	LPSC43	1.0	0.167	LE5ID
LPEZ	LP05	L05	--	LPSC51	1.0	0.167	LZ5IE
LPEN	LP05	L05	--	LPSC52	1.0	0.167	LN5IE
LPEE	LP05	L05	--	LPSC53	1.0	0.167	LE5IE
LPFZ	LP06	L06	--	LPSC61	1.0	0.167	LZ5IF
LPFN	LP06	L06	--	LPSC62	1.0	0.167	LN5IF
LPFE	LP06	L06	--	LPSC63	1.0	0.167	LE5IF
LPGZ	LP07	L07	--	LPSC71	1.0	0.167	LZ5IG
LPGN	LP07	L07	--	LPSC72	1.0	0.167	LN5IG
LPGE	LP07	L07	--	LPSC73	1.0	0.167	LE5IG
FXKS	BB02*	L08	30	LPSC81	0.125	0.167	LZ5I61FX
FXKS	BB02*	L08	30	LPSC82	0.125	0.167	LN5I61FX
FXKS	BB02*	L08	30	LPSC83	0.125	0.167	LE5I61FX

+ Designates channels that comprise the first message to TOS.
* Designates channels transmitted to the GSOC via high speed modem.

14. Central Terminal Configuration Parameters:

    a. General Site Configuration (Menu Selection 3):

       Site ID Number   01
       Number of 9600 BPS Lines   2
       Number of 4800 BPS Lines   0
       Number of analog channels   8
       Number of 544 Boards   5
       Number of SPRTs   36
       Number of LPRTs   7
       Number of BBRTs   2

    b. RT - Specific Configuration (Menu Selection 4)

RTID	RT ADDR	PORT ADDR	C/V DELAY	TIME SLOT
SP01	1***	1	V	1
SP02	1***	1	V	2
SP03	1***	1	V	3
SP04	1***	1	V	4
SP05	1***	1	V	5
SP06	1***	5	V	1
SP07	1***	5	V	2
SP08	1***	5	V	3
SP09	1***	5	V	4
SP10	1***	5	V	5
SP11	1***	2	V	1
SP12	1***	2	V	2
SP13	1***	2	V	3
SP14	1***	2	V	4
SP15	1***	2	V	5
SP16	1***	6	V	1
SP17	1***	6	V	2
SP18	1***	6	V	3
SP19	1***	6	V	4
SP20	1***	14	V	1
SP21	1***	14	V	2
SP22	1***	14	V	3
SP23	1***	14	V	4
SP24	1***	14	V	5
SP25	1***	17	V	1
SP26	1***	17	V	2
SP27	1***	17	V	3
SP28	1***	17	V	4
SP29	1***	17	V	5
SP30	1***	13	V	1

SP31	1***	13	V	2
SP32	1***	13	V	3
SP33	1***	13	V	4
SP34	1***	13	V	5
SP35	1***	18	V	1
SP36	1***	22	V	5
LP01	2***	9	V	1
LP02	2***	10	V	1
LP03	2***	11	V	1
LP04	2***	11	V	2
LP05	2***	11	V	3
LP06	2***	9	V	2
LP07	2***	10	V	2
BB01	3***	21	V	1
BB02	3***	22	V	1

*** = Specific RT serial number

c. Analog Channel Configuration (Menu Selection 5):

Analog Channel	RTID	GAIN
0		
1		
2		
3		
4	** All channels are site selectable **	
5		
6		
7		

d. First Message to TOS Contents (Menu Selection 6)

Number of SPRTs in First Message   19
Number of LPRTs in First Message   0
Number of BBRTs in First Message   1

e. 12 Bit A/D/A Channel Gain Assignments (Menu Selection 7)

CHANNEL	RTID	GAIN
S01	SP20	48
S02	SP21	48
S03	SP22	48
S04	SP23	48
S05	SP24	48
S06	SP25	48
S07	SP26	48
S08	SP27	48
S09	SP28	48
S10	SP29	48
S11	SP30	48
S12	SP31	48
S13	SP32	48
S14	SP33	48
S15	SP34	48
S16	SP01	48
S17	SP02	48
S18	SP03	48
S19	SP04	48
S20	SP05	48
S21	SP06	48
S22	SP07	48
S23	SP08	48
S24	SP09	48
S25	SP10	48
S26	SP11	48
S27	SP12	48
S28	SP13	48
S29	SP14	48
S30	SP15	48
S31	SP16	48
S32	SP17	48

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CHANNEL    RTID    GAIN

  S33      SP18     48
  S34      SP19     48
  S35      SP35     48
  S36      SP36     48
  S37      SP36     18
  S38      BB01SZ   48
  S39      BB01SN   48
  S40      BB01SE   48
  S41      BB01SZ   30
  S42      BB01SN   30
  S43      BB01SE   30
  S44      BB02SZ   18
  S45      BB02SN   18
  S46      BB02SE   18
  L01      BB02LZ   30
```

f. 16 Bit LPDARTS Channel Assignments (Menu Selection 8)

```
CHANNEL    RTID

  L01      LP01
  L02      LP02
  L03      LP03
  L04      LP04
  L05      LP05
  L06      LP06
  L07      LP07
```

g. Hardware and Software Settings:

SP Desired Gain Setting	0.005
LP Desired Gain Setting	0.167
Seconds Datachron Set Behind Time	37.001 seconds, +/- 0.0005 seconds
Datum TCG Time Setting	Sync to FTS receiver actual Time
FTS Receiver Settings	Latitude:
	Longitude: *From on-site documents*
	Elevation:
FTS Filter Factor	10
Reasonableness Test	Enabled

14. STPR CPU Configuration Parameters:

a. CPU 1:

```
CONFIGURATION IDENTIFICATION = Cxxxx-1HL
OPERATE1 IDENTIFICATION = OPERATE1
SITE IDENTIFICATION = 460
LP DATA AND INSTRUMENT TYPE (A,31,36) = 36
NUMBER OF SHORT PERIOD ARRAY CHANNELS = 32
NUMBER OF SHORT PERIOD OTHER CHANNELS = 14
NUMBER OF LONG PERIOD ARRAY CHANNELS = 21
NUMBER OF LONG PERIOD OTHER CHANNELS = 3
TYPE OF LP OTHER CHANNELS (A,B) = A
NUMBER OF SHORT PERIOD PROCESSES = 16
NUMBER OF LONG PERIOD PROCESSES = 5
SHORT PERIOD FREQUENCY FILTER LENGTH = 1
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
1,0,0
2,-3.375,0.402
3,-1.202,-1.498
4,-2.726,-2.496
5,-0.126,-2.431
6,0,0
7,1.524,-2.338
```

```
8.-3.404.-3.509
9.-1.329.-3.629
10.-2.279.-2.428
11.0.0
12.1.297.-1.980
13.2.156.0.414
14.2.996.2.122
15.3.754.-0.093
16.0.0
17.0.958.1.538
18.1.768.0.050
19.0.411.-1.405
20.-1.682.0.198
21.-1.760.0.787
22.2.399.3.093
23.4.685.1.767
24.4.951.0.360
25.1.961.-1.994
26.-0.392.-3.381
27.-2.797.-2.852
28.-4.619.-2.549
29.-4.339.0.411
30.-2.691.0.719
31.-1.694.2.415
32.-0.033.3.987
LP COORDINATES:
0.0.0
1.0.0.C
2.11.553.14.380.C
3.17.252.-4.024.C
4.5.535.-17.249.C
5.-13.907.-13.365.C
6.-20.451.3.680.C
7.-8.351.18.687.C
SP FREQUENCY FILTER PARAMETERS:
0
0.9999
LP FREQUENCY FILTER PARAMETERS:
0
0.9999
SP BEAM PARAMETERS:
SPIL36.0.000.13.0.F.1
SPIL06.0.060.13.0.F.1
SPIL12.0.120.13.0.F.1
SPIL18.0.180.13.0.F.1
SPIL24.0.240.13.0.F.1
SPIL27.0.270.13.0.F.1
SPIL30.0.300.13.0.F.1
SPIL33.0.330.13.0.F.1
SPIL99.0.0.0.F.1
SPIM99.0.0.0.F.1
SPBM99.0.0.0.F.1
SPBC99.0.0.0.F.1
SPIL35.0.354.19.F.1
SPIM32.0.323.15.8.F.1
SPBM33.0.329.16.0.F.1
SPBC33.0.332.16.9.F.1
LP BEAM PARAMETERS:
LPH36Z.1.000.3.5.B
LPH09Z.1.090.3.5.B
LPH18Z.1.180.3.5.B
LPH27Z.1.270.3.5.B
LPH32Z.1.320.3.5.B
FIXED FILTER FOR SPIL36
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
```

```
FIXED FILTER FOR SPIL06
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
FIXED FILTER FOR SPIL12
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
FIXED FILTER FOR SPIL18
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
FIXED FILTER FOR SPIL24
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
FIXED FILTER FOR SPIL27
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
FIXED FILTER FOR SPIL30
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
FIXED FILTER FOR SPIL33
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
FIXED FILTER FOR SPIL99
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
FIXED FILTER FOR SPIM99
0
1.1.1.1.1.0.0.0.0.0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.0.0.0.0.0
0.0
FIXED FILTER FOR SPBM99
0
0.0.0.0.0.1.1.1.1.1
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.0.0.0.0.0
0.0
FIXED FILTER FOR SPBC99
0
0.0.0.0.0.0.0.0.0.0
1.1.1.1.1.0.0.0.0.0
0.0.0.0.0.0.0.0.0.0
0.0
FIXED FILTER FOR SPIL35
0
0.0.0.0.0.0.0.0.0.0
0.0.0.0.0.1.1.1.1.1
1.1.1.1.1.1.1.1.1.1
1.1
```

```
FIXED FILTER FOR SPIM32
0
1,1,1,1,1,0,0,0,0,0
0,0,0,0,0,0,0,0,0,0
0,0,0,0,0,0,0,0,0,0
0,0
FIXED FILTER FOR SPBM33
0
0,0,0,0,0,1,1,1,1,1
0,0,0,0,0,0,0,0,0,0
0,0,0,0,0,0,0,0,0,0
0,0
FIXED FILTER FOR SPBC33
0
0,0,0,0,0,0,0,0,0,0
1,1,1,1,1,0,0,0,0,0
0,0,0,0,0,0,0,0,0,0
0,0
SP PROCESSING DELAY = 20
LP PROCESSING DELAY = 6
SECONDS PER RECORD = 2
```

b. CPU 2:

```
CONFIGURATION IDENTIFICATION = Cxxxx-2HL
OPERATE2 IDENTIFICATION = OPERATE2
SITE IDENTIFICATION = 460
LP DATA AND INSTRUMENT TYPE (A,31,36) = 36
NUMBER OF SHORT PERIOD ARRAY CHANNELS = 32
NUMBER OF SHORT PERIOD OTHER CHANNELS = 14
NUMBER OF LONG PERIOD ARRAY CHANNELS = 21
NUMBER OF LONG PERIOD OTHER CHANNELS = 3
TYPE OF LP OTHER CHANNELS (A,3) = A
NUMBER OF SHORT PERIOD PROCESSES = 16
NUMBER OF LONG PERIOD PROCESSES = 5
NO SP CHAN TO BE TRANSMITTED VIA HSM = 18
NO LP CHAN TO BE TRANSMITTED VIA HSM = 10
*NUMBER OF CONTACT SENSOR MONITORS = 9
*NUMBER OF A/D CHANNEL CHANNEL MONITORS = 1
AMOUNT OF SP EDIT TIME DELAY REQUIRED = 0
AMOUNT OF LP EDIT TIME DELAY REQUIRED = 0
SP COORDINATES:
0,0,0
1,0,0
2,-3.375,0.402
3,-1.202,-1.498
4,-2.726,-2.496
5,-0.126,-2.431
6,0,0
7,1.524,-2.338
8,-3.404,-3.509
9,-1.329,-3.629
10,-2.279,-2.428
11,0,0
12,1.297,-1.980
13,2.156,0.414
14,2.996,2.122
15,3.754,-0.093
16,0,0
17,0.958,1.538
18,1.768,0.050
19,0.411,-1.405
20,-1.682,0.198
21,-1.760,0.787
22,2.399,3.093
23,4.685,1.767
24,4.951,0.360
25,1.961,-1.994
26,-0.392,-3.381
27,-2.797,-2.852
28,-4.619,-2.549
```

```
29.-4.339.0.411
30.-2.691.0.719
31.-1.694.2.415
32.-0.033.3.987
LP COORDINATES:
0.0.0
1.0.0.C
2.11.553.14.380.C
3.17.252.-4.024.C
4.5.535.-17.249.C
5.-13.907.-13.365.C
6.-20.451.3.680.C
7.-8.351.18.687.C
SP CALIBRATION DEFAULT PARAMETERS:
0.833.1.0.10.0.0.180000.0.9.1.1.2.929.8
1.0.1.708
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:
0.2539.0.04.10.0.0.183000.0.9.1.1.1.97.7.3
0.040..2243
0.100.2.243
0.067..2243
0.050..2243
0.033..2243
0.025..2243
0.020..2243
SP CHANNEL CONFIGURATION FOR CALIBRATION SYSTEM:
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
1.10
1.11
1.12
1.13
1.14
1.15
1.16
1.17
1.18
1.19
1.20
1.21
1.22
1.23
1.24
1.25
1.26
1.27
1.28
1.29
1.30
1.31
1.32
1.33
1.34
5.1
5.1
5.1
5.1
```

```
5.1
5.1
5.1
5.1
5.1
5.1
5.1
5.1
SP BEAM PARAMETERS:
SPIL36,0,000,13.0,F,1
SPIL06,0,060,13.0,F,1
SPIL12,0,120,13.0,F,1
SPIL18,0,180,13.0,F,1
SPIL24,0,240,13.0,F,1
SPIL27,0,270,13.0,F,1
SPIL30,0,300,13.0,F,1
SPIL33,0,330,13.0,F,1
SPIL99,0,0,0,F,1
SPIM99,0,0,0,F,1
SPBM99,0,0,0,F,1
SPBC99,0,0,0,F,1
SPIL35,0,354,19,F,1
SPIM32,0,323,15.8,F,1
SPBM33,0,329,16.0,F,1
SPBC33,0,332,16.9,F,1
LP BEAM PARAMETERS:
LPH36Z,1,000,3.5,B
LPH09Z,1,090,3.5,B
LPH18Z,1,180,3.5,B
LPH27Z,1,270,3.5,B
LPH32Z,1,320,3.5,B
CHANNEL CONFIGURATION FOR HIGH SPEED MODEM:
SPIL36,SPIL06,SPIL12,SPIL18,SPIL24,SPIL30,SPIL99,SPRW41,SPRW04,SPRW07
SPRW15,SPRW35,SPRW37,SPRW45,SPRW46,SPIM99,SPBM99,SPBC99,LPH36Z,LPH09Z
LPH18Z,LPH27Z,LPSC4Z,LPSC4N,LPSC4E,LPSC8Z,LPSC8N,LPSC8E
*RELAY IDENTIFIERS AND NORMAL STATUS FOR EACH CONTACT SENSOR MONITOR:
CMLPWR,1
TEST 2,1
TEST 3,1
TEST 4,1
TEST 5,1
TEST 6,1
TEST 7,1
TEST 8,1
TEST 9,1
*IDENTIFIERS AND LIMITS FOR EACH A/D CHANNEL MONITOR:
LNPOWR,5.4,6.6
SECONDS PER RECORD = 1
```

* Monitors may be added/modified at the station's discretion.

OFFICIAL   JAY J. JAYNES, Colonel, USAF
                                              Commander

RICHARD E. COOK, SMSgt, USAF
Director of Administration

SUMMARY OF CHANGES
STPR processing reset to fixed filter mode to process data from IL, IM, BM, and BC arrays into
beam channels. Channels transmitted to GSOC via HSM changed. SP develocorder channels changed.
Order of channels recorded on tape changed. Two IL channels deleted from beamforms. New SP
array coordinates input for IL.