PROJECT NUMBER

PRGJECT TITLE

B-98 Flight Control 3ystem (U)

STATUS

Grailance with E.O. 3800 (Senior Float-Up). Scheduled return to C rawell 1 September 1960. (U)

g. 1933 - Pester responsibility transferred from Field Maintenance section to Flight Control group of A&E. Tester was calibrated in preparation for 1st Article Demonstration 17 August 1960. Three RFA's were submitted: (U)

- (1) RFA #9 Service T.O. 33D7-3-4-12 deted 23 April
 - (2) RFA #10 Labeling Missing on Test Set. (U)
- (3) RFA #11 Revision to Field Maintenance Manual F.O. 3F5-4-2-22 dated 5 August 1960. (U)

The capability of Air Force personnel to independently support critical calibration requirements is questionable at this time. Calibration problem is now under study by Air Force and contractor personnel. (U)

- h. 3905 Unsatisfactory Report (TF-60-761), dated 19 August 1960, was submitted on this item. Due to modifications of FCLA, recommend that sling be redesigned to include turn buckles on cables in order that length adjustment can be made to accompdate all configurations of FCLA's. (U)
- 1. 3912 During lot Article Demonstration 15 August 1960 on 1904 Test Set Gyro and Accelerometer Unit this test fixture, which holds the gyro package while 1904 is being utilized, was found to be undesirable and inadequate. Numerous minor discrepancies were noted which have resulted from wear in usage and could be corrected however, basically the problem is the original design and fabrication of fixture. The 1904 tester, and the Genisco Rate Table that the 3912 fixture is attached to are both precision made and capable of precision adjustments. The 3912 fixture is not precision made, nor precision adjustable, and therefore inadequate to fulfill its designed function properly. A UR is presently being prepared requesting major changes in design. (U)
- j. 5917 Unsatisfactory Report (TF-60-711), dated 26 July 1960, was submitted on this item. "Hinge pin pulley SE-2934 is not properly designed to exert the necessary force for removing hinge pins from B-58 elevens." Recommendation: "Redesign the eleven hinge pin...." (U)

177-147

PROJECT HUMBER

G-10 B-58 Flight Control System (U)

STATUS

- 3. Items not utilized:
- a. 3902 No maintenance to date has necessitated the removal of the B-58 rudder, therefore this item has not been utilized in the field to date. (U)
- b. 3945 This test fixture not used by maintenance to date. Action required by Convair to effect marriage of fixture to Hyd. Test Stand. (U)
- · 4. Additional comments:
 - a. An extensive program of data recording, collection, and analysis of both the aircraft flight control system and the tester capabilities is presently in progress. Specific details are to be covered in an SIR at a later date. (U)
 - b. To date 23 RFIR's have been written on flight control TGSE; however, no analysis, report, or advisement has been received from the Convair reliability group as to whether the problems submitted are correctable or not. Absence of feed back information of this nature has left many decisions questionable, and created doubts as to which course of action to follow during the interim period. (U)

30 September 1950

- i. The Carpure of a reference of the Fundamental and the companies of a reference of the Fught Carpure of the Fught Carpure of the Fught Carpure of the Fught Carpure of the fught of the carpure of
- 2. Dioterparte

. E. CSEL R.

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940.5 Hours

Five [5] Convolt RTHR's were written on sealer components as follows:

- IPCY WILLIAM

C-10

PROJECT TITLE

B-58 Flight Control System

RYLTLE

2 Tape Reader (2"- Reader head)

2 Power Supply (2 - Transistors P/N 2N277)

1 Test Points (1 - J2015 open circuit)

Combined Air Force and Vender maintenance enabled tester to support mission requirements. A new T.O. covering trouble shooting procedures is scheduled for release in October. Analysis of the tester tape is also scheduled to commence in October upon the completion of new tape for Flight Control System Mobile Test Set (GSEL 1903. 1).

b. GSEL 1903.1

Feriod Utilization

2.2 hours

Total

1386. 2 hours

Two (2, Convair RTFR's were written on tester components as follows:

2 - Tape Resder (2 - Resder heads)

Soroban Tape Reader problems are being studied and will be the subject of

n SIR.

Since 22 August 1960 a combined Air Force and Vender team have been working to produce, as quickly as possible, a new tester tape with accompanying tech data which will give to the operating personnel a significantly higher degree of reliability and confidence in the tester and its designed capability. The specific objectives of the test tape analysis are as follows:

- (i) Detailed Procedure:
 - (a) Review purpose of test
 - (b) Ascertain whether there are similar or other identical tests on tape.
 - (c) Confirm the necessity for the basic test purpose (reference (1) above).
 - (d) Confirm test procedures.
- (e) Eliminate any redundant testing and attempt to utilize tester to its fullest automatic capability.
- (f) Determine desired revisions to procedures, to test nominals and/or test tolerances.

TV-149

TEST AND STATUMENT PROTECT STORE ON THUATION SHEET

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PRO GET TITLE "-

G-10

B-58 Flight Costrol System

Proper

- (g) Complete documentation of all decisions and pertinent information.
- (h) Devise, where practical, new tests and procedures to be added.

Tabulate any tests desired, but not incorporated in new tape due to present tester limitations.

- (2) Re-program and punch new tape.
- (3) Simultaneously, prepare T.O. revisions.
- (4) Run new tape, for compatibility, on Convair aircraft.
- (5) Deliver tape to Carewell 15 October 1960.
- (6) Establish a separate review to assure GSEL 1901 tape compatibility with revised GSEL 1903, 1 tape.

A summary of the flight control system USEL 1903, I (F/N 13933) tester tape review to date is as follows:

(1)	Completion of task	809	Z
	The state of the s		34

- c. GSEL 1931 This test set is a suitable means to establish "electrical zero" of the control surface position transmitters with respect to the control surfaces and PCLA neutral position. This is accessary in order to have the position transmitters properly aligned or calibrated with respect to control surface position.
- (1) The tester has been used corresponding to accomplish this task; however, due to the individual characteristic of each alread, when the tester zeroing is accomplished and tester disconnected, the system transmitter must, in most cases, still be "wet-nulled." This requirement actually cancers out the utility and basic function of the tester. What is needed here appears to be a parallel hook-up which would allow the zeroing of transmitters with the aircraft power source on. At the present time tester power source only is used to nell transmitter, the cannot plug to aircraft power source is disconnected. An engineering study is now being intraced to determine the practicability

ECT MUMBER

PROJECT TITLE

C-10

8-58 Flight Centrol System

STATUS

of devising s. Y connect on anc/or parallel hook up in which aircraft and tester power, are used simultaneously through harnesses, or perhaps utilize only aircraft power in both system and tester.

d. GSEL 1932 - Tester to be returned to 43 AEMS on 5 October 1960 .

e. CSEL 1933 - Period Universion .

35, hours (approx)

Total

657.5 hours

Four (4) Convair RTFR's were written on tester components as follows:

4 - Mach comparators (4 relays)

Tester capability, reliability, and performance has been entirely unsatisfactory since the first article demonstration 17 August 1960. Tester repeatedly fails self test operation. Malfunctions in four cases have been traced to burned out relays. The relays were replaced and reported on RTFR's. For the other malfunctions, the cause, or causes, main unknown.

Convair and special Eclipse - Pioneer technicians are trying to determine causes. Testers, when fixed, will require calibration again prior to use.

f. OSEL 1934 - Period Utilization

15.7 hours

Total

134 hours

One (1) Convair RTFR was written;

(1) Broken cover hinges.

This is the second occurrence of the lock open cover hinges breaking. The hinges appear to be crystalized. The break, adjacent to the pivots, is located at the smallest cross-sectional area. Hinges were returned to Convair for diagnostic check.

- g. GSEL 3912 Reference Specific Item Report Nr G-10-1, 28 September 1960 for a detail report of the inadequacies of this item of TGSE:
- h. CSEL 3945 Eclipse-Pioneer, Convair, and Air Force personnel started working on the mating of this test fixture 26 September 1960. Progress to date has been slow. Elevator, elevan, and rudder servo's have been acquired for operational check out of the test fixture mated to the hydraulic test stand. Vencor personnel are revising asting technical data to include corrected procedures, more adequate instructions, photographs and diagrams where applicable and necessary. Formal approval of test

PROJECT NUMBER	PAGIECT TITLE
G-10	B-58 Flight Control System
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fixture tester mating is presently scheduled for the week of October 10th.

- 3. Items not utilized:
 - a. GSEL 3902 No maintenance requirement.
- 4. Additional comments:
 - a. To date 35 RTFR's no feedback information.
- b. Added emphasis and priority is essential in regard to the early development of a 43 BW Flight Control TOSE calibration capability. Present calibration of testers cannot be accomplished by Air Force Personnel for the following reasons.
 - (1) Inadequate or non-existent calibration procedures.
 - (2) Lack of special calibration equipment.
- (3) Identity of special calibration equipment so that procurement through channels could be initiated.
 - (4) Comprehensive listing of testers calibration requirements.

The critical urgency of the present tack of tester calibration capability must not be minimized. In most cases, shop testing and trouble shooting of flight centrol subsystem components is entirely dependent upon the individual capability of a single tester. If the one special tester is inoperative, the 43rd BW loses the support and trouble shooting capability of that tester for the entire wing.

At the present time a lack of spares in pre-issue for the major components and sub-assemblies of flight control line and shop testers and aircraft flight control sub-assemblies makes it impossible to utilize effectively testers during inactive time for purposes of training, checking trouble shooting procedures, and adequacy of technical data. For example, a reader head was removed from S/N 10 GSEL 1903.1 for use on S/N 1-CSEL 1901 in July 1960. The defective reader head has not yet been repaired and returned to CAFE, and S/N 10 - GSEL 1903.1 has been inoperative since the reader head removal.

Procurement and stocking of spare critical and hi-value items for aircraft subsystem and testers such as reader heads, air data computer, PCLA, CUA's, etc., would definitely strengthen the present TGSE support capability and accelerate the engineering and evaluation program effort.

ECT NUMBER PROJECT

G-10

B-58 Flight Control System

BTATO

Of significant interest in October, will be a conference between Air Force and Convair regarding numerous recommendations for modification of the various flight control systems. Objectives of consolidating the proposed modifications for approval are to minimize recycling of B-58 aircraft factory modification program, and maximize flight control system and the er support capability at the earliest date and at the lowest cost.

CAUS 690 PG: 2750

	TEST AND EVALUATION PROJECT STATUS SHEET
G-11	B-58 Hydraulic System TGSE (U)
REPORT SECTION	PROJECT OFFICER
Part IV	Capt W. R. Southerland

To evaluate the TGSE associated with the B-58 Hydraulic System. (U)

REQUEST ASSECT	DATE INITIATED	COMPLETION DATE	AUTHORIZATION
B-58 Test		Estimated	
Force	May 1960	January 1961	AFR 80-14

Nine Key Items: 6 Testers, 3 Ground Handling, 0 Tools (U)

GSEL'	NOMENCLATURE	P/N	1st Art Del Date	Est Comp Date
2001 2002 2003 2004 2009 2011 4001 4602 4004	Pumping Unit-Hyd. Port Eng. Pumping Unit, Hyd, Port Elect. Kit Assy-Hyd Fluid Contam CK Stand Assy-Hyd Comp Test Holding Fixture Kit Pumping Unit-Hyd, Elect Mot Dr Cart Assy-Hyd Fluid Servicing Stand Assy-Perm Elem Filter Kit Assy-Hyd System Flushing	SE2940 SE2941 SE2882 Mod 100 SE8817 SE2785 SE2982 SE2888 SE2916	Mar 60 Nov 59 Nov 59 Dec 59 Feb 60 Aug 60 Nov 59 Feb 60	Dec 60 Dec 60 Dec 60 Jan 61 Jan 61 Jan 61 Jan 61 Dec 60 (U)

31 May 1960;

- Items in use with no reported discrepancy: 2004, 2009, 4002.
- 2. Discrepancies:
- a. 2001 Pour misc. failures reported in Convair RTFR's. One misc. failure reported in TF UR 60-559. (U)
- b. 2002 Twenty RTFR's written by Convair personnel. Drive shaft, sending unit, regulator and misc. deficiencies reported in TF UR's 60-338, 60-365, 60-558, 60-559, 60-583 & 60-584. (U)
- c. 2003 TF UR 59-1512 reported numerous deficiencies in this item. AMC Form 118J dated 18 March 1960 stated that these

17-154

ECT NUMBE

PROJECT TITLE

15. 17

B-58 Hydraulic System TGSE (U

STATUS

items would be corrected on Serial Nr θ . This corrective action will be evaluated upon receipt of kit with corrective action incorporated. (J)

d. 4004 TF UR 59-1512 reported numerous deficiencies on Unit Sm Nr 1. ACA 4-101-20651-4 should correct these deficiencies. (U)

31 August 1960

- 1. 2001 In commission rate of 62% for past 62 days. In commission rate of +6.4% for past 35 days. (U)
- 2. 2002 In commission rate of 58.4% for past 62 days. In commission rate of 51.5% for past 35 days. (U)

The primary problems with 2001 and 2002 are pressure and flow control motors. United Control Systems, Inc., Dennison Engineering Company and Convair engineers met with the 43rd Bomb Wing personnel the 1st week of August to discuss this problem area. Interim operating procedures to reduce failure have been put into effect. An engineering change is being processed to eliminate this problem. (U)

- 3. 2003 Kit is satisfactory except for microscope -- Convair is presently producing a new type microscope to replace item in present Tactical Kits. (U)
- 4. 2004 TF UR 60-696 lists DC control circuit deficiency—otherwise item is used approximately once monthly and is satisfactory. (U)
- 5. 2009 Used with 2004--no reported discrepancies. (U)
- 6. 2011 Had 1st Article Demonstration August 1960. Minor RFA's were written, however, unit is performing satisfactorily with the exception of a leaking nitrogen pressure regulator. This type regulator will be replaced as an answer to one RFA. (U)
- 7. 4002 Specific Item Report 3-11-1, dated 31 August 1960, reported on the 43DTES and Convair evaluation of the 4002 (P/N SE2888) Fermanent Element Cleaning Stand compared to the ultrasonic cleaning method used by Convair, Fort Worth. This report recommended that expedited action be taken to procure an ultrasonic cleaning stand for the 43rd Bomb Wing. (U)

G-11 PAGECT TITLE

G-11 B-58 Hydraulic System TGSE (U)

STATUS

8. 4004 - Used a minimum of once weekly with no reported deficiencies since ACA 4-101-20661-4 has been accomplished. (U)

30 September 1960;

- 1. The Category III TOSE Evaluation Plan that occame affective 1 August 1960 designates data collector and TOSE Evaluation during and maintanance essage of the Hydraulic System, popular TOSE. The following exceptions require a special effort to evaluate accurate all popular modes of operation in the limited time available by the evaluate accurate GSEL 2004, 2002, 2004.
- 2. GSEL 2001 and 2002. Proving specially a proceedings have respect the number of pressure are the content more population. ACA 1- 02-70552 and -70513 will add dynamic practice to these most as. The commission rate for 2001, 75.3%. In commission rate for 2001, 75.3%.
- 3. CSEL 200 V . ang from 31 Aug. : 1970 status.
- 4. Est at 1 me as a control of rapp tomar ly 2 hours during
- 5. GSEL 200 Committee No equated excrepances.
- 6. CS_L ... 1 ... 1 ... Lagre out / 42.5 k No RFA's have been cleared.
- 8. GSEL TOTAL ON A SECRET FALL TIME AND ASSESSED FOR THE

	TEST AND EVALUATION PROJECT STATUS SHEET
PROJECT NUMBER	PROJECT TITLE
0-12	8-58 IBDA System TGSE (U)
REPORT SECTION	PROJECT OFFICER
Part IV	Capt C. B. Fynck

To evaluate the TGSB associated with the B-58 1BDA System. (U)

REQUEST AGENCY	DATE INITIATED	COMPLETION DATE	AUTHORIZATION
E-55 Test		Estimated	
Fre	May 1960	February 1961	AFR 80-14

Five Key Items: 5 Testers, C Ground Handling, C Tools (U)

GSEL	NOWENCLATURE	<u>F∕N</u>	1st Art Est Comp Del Date Date
2103 2104	Test Set-IBDA Data Package	1401 1402 1404 1403 SE2703	Apr 60 Feb 61 Nov 59 Nov 60 Nov 59 Feb 61 Nov 59 Nov 60 Nov 59 Feb 61

31 May 1960:

1. Items in use without reported discrepancies, 2103, 2104, 2105. (U) $^{\circ}$

2. Discrepancies

a. 2101 - UR (TF60-603) submitted on time digitalizer in data package resetting before test typic is completed. After approximately 10 hours of operation tester gear train became jammed; tester sent to Convair as UR exhibit. (U)

b. 2102 - Test Set would not operate camera light "on" on system test set. Tester returned to Convair for required maintenance action, because A&B shop does not have adequate technical data nor the trained personnel at this time to accomplish maintenance task. (U)

31 August 1960:

1. A 1st Article Demonstration on GSEL 2101, 2103 and 2164 was conducted on 18-19 August 1960. Due to the inadequacy of Technical Data (7.0.5 11B1, 2-2-2, 33D2-2-2-2, 33D2-26-2-3, 33D2-26-2-11 and 33D2-26-2-12) the demonstration was cancelled on 3SEL 2101 and 2103. The 1st Article Demonstration

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PROJECT HUMBER

PROJECT TITLE

G-12

B-58 IBDA System TGSE (U)

TATU

on these items will be rescheduled at a later date. The First Article Demonstration on GSEL 2104 was completed successfully. Thirteen RFA's were generated during the demonstration, five of which were written on Tech Data encompassing the entire manuals. (U)

- 2. 2101 Of the three testers assigned, only one has been operated during this reporting period for a total of 30 hours. Seven hours were expended to check three IBDA Data Package LRU's, 15 hours were used for the Mirst Article Demonstration, and 8 hours were used for OJT training. The remaining two testers are at Convair for repair and calibration. UR's TF 60-603 and TF 60-721 submitted. (U)
- 3. 2102 Test set is used in conjunction with 2101. Two tests have been made on the IBDA Data Package with satisfactory results. The limited number of tests performed has been due to the low incommission rate of 2101. (U)
- 4. 2103 Test set has been used satisfactorily on a limited basis. This test set is used in conjunction with 2101. (U)
- 2104 This test set has been used on an average of six times per day with no reported discrepancies. (U)
- 6. 2105 Two items were delivered in an unsatisfactory condition. UR submitted. This fixture was used once with unsatisfactory results. (V)

30 September 1960:

- 1. The Category III TOSE Evaluation from that became effective I Alguer 1960 designates data collection and TOSE evaluation during normal mathematice usage of the E-58 IRDA System TOSE. The following exceptivity require a special efform to evaluate through all possible modes of operation in the limited time available for the evaluation: OSEL 2-C1, 2-C3, and 2-C4.
- CSEL 2101 Test Set, Satist No. 2, was a community of the reporting period and was used 6.5 hours without and discrepance as. Sorial No. 9, which has been out of commission come A sec. 1960, is a Convair and applica.
- OSBL 2103 The one Tell Set as igned has been in our initiation during the reporting period and has been used 6.3 hours are how one accrepancies.
- CSEL 2:04 This reader was used 0.4 hours and has been in commission during the reporting period.

TENEDE NO.	TEST AND EVALUATION PROJECT STATUS SHEET	
SEOJECT NUMBER	PROJECT TITLE	
9-13	3-58 MINAS 1358 (e)	
REPORT SECTION	PROJECT OFFICER	
Part IV	CMS M. V. Kiff	

To evaluate the TUSE assistated with the B-58 MNAS. (U)

REQUEST AGENCY	DATE INITIATED	COMPLETION DATE	AUTHORIZATION
g-Do Test		Estimated	
E01.00	May 1900	May 1961	1 00 gg 1

Four Key Items Authorized: Four Pesters (U)

OSEL	NCHENCLATURE	<u>P/N</u>	lst Art Est Comp Del Date Date
5500	Test Set-AA-AG/IFF, Mobile	201-10520	Jan 60 May 61
2307	Tester-Confidence, AG/IFF Test Set-Component AA-AG/IFF	201-10150 201-22999	(Aug 60) Dec 59 Dec 60 Jan 60 May 61
2231	Tester-Confidence, AA/TFF	201-10147	(Jun 60) Dec 59 Dec 60
33 May	1960:		(U)

- 1. Items in use without reported discrepancies: 2201, 2231. (U)
- 2. Discrepancies.

a. 2200 and 2207 have been returned to the vendor for modification. (U)

3. 2200 - Composite Antenna, Remote Test, P/N 201-12405 is an authorized key item and carrot be evaluated until ancillary equipment is formished. WADD Labs have requested that evaluation be delayed. (U)

31 August 1960

1. 2200 - The tester was returned to Carawell 4 August 1960. Self check tape has been run successfully. The tester has been used three times to check already systems. Most functions of the tester appear to be satisfactory but erroic results were

CARS "000 07 FC: 2790

PROJECT NUMBER PE

PROJECT TITLE

G-13

B-58 MNAS TOSE (U

STATUS

experienced on some tests which were apparently caused by interference from the local GCA interrogator. (U)

2. 2207 - The tester was returned to Carswell 24 June 1960. A vendor engineer checked out the tester and demonstrated its use to A&E shop personnel. A lst Article Demonstration was completed 22 July 1960. Only three RFA's were written, two on technical data and one on the lack of identification of an attenuator dial. Technical orders used during the demonstration had been thoroughly checked and correction made in pencil prior to the demonstration. RFA #1 was written on the penciled corrections to ensure they were incorporated in the next Technical Order change. A total of 12 pages in three applicable Technical Orders were affected. The tester has been in satisfactory daily use since the demonstration. (U)

30 September 1960:

- 1. The Category III Evaluation First that become effective 1 August 1960 designates data collection and TGSE evaluation of the product material activities usage of the peculiar TGSE. The following exceptions require a special effect to evaluate through all possible modes of operation in the limited time a radiation for the evaluation CSSL 2200, 2201, 2207 and 2231.
- 2. GSEL 2200 Tester was operated 19 if nours during the menth of September. Most of the operating time resulted from only self-recks. Inverference from the local GCA interrogator causes the tester to read high on none pulse count checks. An agreement has been made between maintenance and GCA operating personnel to restrict GCA modes of operation when the tester is being used to check out an alrerait system. This will provide interim relief from the interference aux a permanent fix will be required before the tester operation is considered suitable.
- GSEL 2201 The rester was used twice this month to check our installed sizoraft systems. Results were satisfactly beta times. Limited use of the tester was due to lack of maintainance requirement.
- 4. CSEL 2207 Normal system transcribed provided a very small workload for the tester this month. The tester was operated 21.9 hours in imerily for daily tester self-checks. The low band multiplier in date became intermittent and was repliced. Replacement of the module has apparently compromised the call that on of the low band RF Generator Drawer. Test equipment required for only attends and available locally. Maintenance personnel are preparing request to U.A.L. satiges which should provide a more realistic authorizational Calibration of the tester dise not appear in have deteriorated to a point which would prevent its use.

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MATER PROJECT TITLE

G-13

B-58 MNAS TOSE

5. GSEL 2231 - Tester was not used this month and has required no maintenance. Systems which would normally require use of the tester, have apparently had little or no use and consequently have required no maintenance.

	TEST AND EVALUATION PROJECT STATUS SHEET		
G-14. PAGECT TITLE B-58 Pod System IGSE (U)			
REPORT SECTION	PROJECT OFFICER		
C-3 of Part IV	Capt W. R. Southerland		

To evaluate the TGSE used to support the B-58 Pod System. (U)

REQUEST AGENCY	DATE INITIATED	COMPLETION DATE	MOITATIRONTUA
B-58 Test		Estimated	00 14
Force	May 1960	December 1960	AFR 80-14

Nine Authorized Key Items: 8 Ground Handling, 1 Tool (U)

GSEL	NOMENCLATURE	<u>P/N</u>	1st Art Est Comp Del Date Date
4306 4310.1 4311.1 4313.1 4318.1 4319.1 4320.1 6302	Cower Assy-Nb-1 Fod Protect Sling Assembly-Pcd Handling Trailer Assy-Pos Trailer Assy-Trans Cradle Assy-Pcd T&T Cradle Assy-Pcd T&T Cradle Assy-Pcd T&T Adapter-MB Pcd, AFT Cradle Adapter Assy-MB Pcd, Fvd Crd Kit Assy-Pcd Installation Test Set MB - Fod	SE2771-1 SE2739-1 SE3550-1 SE3551-1 SE3553-1 SE3555-1 SE3555-1 SE3555-1 SE2822-1 SE2994	Peb 60 Dec 60 Peb 60 Dec 60 May 60 Dec 60

1. Above items plus key items GSEL 4307 (P/N SE-2959), 4312.1 (P/N SE8552-1), 4314.1 (P/N SE8557-1), 4316 (P/N SE2778-1), 4321.1 (P/N SE8558-1) and 2702 (P/N SE2994) are being evaluated during EET of Pod System to be completed o/a 10 June 1960. (U)

2. There are 38 total key items applicable to MB and/or TCP Pods. ADS ECL's 651 & 691 are being revised to include POD TRSE. Equipment will be evaluated as received. (U)

31 August 1960

1. An Engineering Evaluation Test of the Pod System Equipment was conducted by a composite team of AFSWC, B-58 Test Force, and SAC personnel under the supervision of AFSWC officers with Sandia

G-14 B-58 Pod System TGSE (U)

Corporation and Convair, Fort Worth Engineering Consultants. A partial objective of this test was to determine the functional and engineering suitability of the pod, its ancillary equipment and its operating procedures when associated with the B-58 aircraft. As of 31 August 1960 the final report on this test has not been received by the 43rd Bomb Wing. (U)

- 2. The modified positioning trailer has not been received for evaluation. $\overline{(U)}$
- 3. Evaluation of the unmodified positioning trailer has been hindered by the mismatch of the pod cradle assemblies and the pod. Only four (4) pods have been modified to accept the Tactical Handling equipment. An ACA is pending on this pod modification. (U)

30 September 1960:

- The Category III TGSE Evaluation plan that became effective 1 August 1950 designates
 data collection and TGSE evaluation during normal maintenance usage of the pod system
 peculiar to TGSE. The following exceptions require a special effort to evaluate through
 all possible modes of operation in the limited time available for the evaluation. GSEL
 4310. 1, 4311, 1, 2702.
- 2. GSEL 2702 Two tactical items have been delivered to the 28th MMS. Serial #4 would not function properly when received and was returned to Convair where a leak was found in the pneumatic system. Serial #1 worked satisfactorily until modified per ACA 4-102-70529 which modified the tester to check the arming circuit. Subject tester had an electrical failure described in EUR 43BW 60-18.
- GSEL 4313. I EUR 43EW60-11 submitted on GSEL 4310. I should have been on failure of brake assembly of GSEL 4313. I to hold pod stationary on trailer rails with sudden pitch down of pod nose during down loading.
- 4. Item 1 in the 31 August status report is unchanged.
- GSEL 4310. 1: Three tactical items on hand, Serial Numbers 5, 7, & 8. All three units have hydraulic problems that are presently under investigation by Convair and the 43rd DTES.

PROJECT NUMBER	PROJECT TITLE
0-15	B-58 Weapon Control System TGSE (U)
REPORT SECTION .	PROJECT OFFICER
C-3 of Part IV	Capt C. B. Fycek

	B-58 T Force	est	May 1960	Estim Octob	and the state of the	and the state of the state of	AFR 80	
TATUS	Twenty 3 Tool		orized Key Items:	9 Testers	, 8 Ground	Hand:	ling,	
	GSEL	5 (0)	NOMENCLATURE		P/N		Art Date	Estimate Comp Dat
	2401	Test	Set-Weapons Cont	Sys,	1975000			Oct 61
	2403	Test	Set-Line Repl Uni	t,	1975002			Oct 61
	2404	Test	Set-Line Repl Uni rtial	t	1975003	Jul	60	Jul 61
	2406 2409 2413 2414 2415 2417	Test Test Calil Fixt	Set-Line Repl Uni Set-Amplifier Set-System, Confi brator-Magnetic Co ure Assy-Axis Alig Simulacra Align &	dence mpass	2375393 1975004 1950000 1780606 487103 489806	Dec Feb	60 50 60 60	Oct 61 Jul 61 Dec 60 Dec 60 Jun 61 Jun 61
	4410 4411 4412 4413 4414 4415 4416 4417	Lock Truck Truck Fixtu Fixtu Fixtu	g Assy-Search rada Assy-Longeron Pos k Radome, Search R k, Antenna, Search ure-Holding, RTM U ure-Holding, RCVR ure-Holding, XMTING s-LRU Transit	adar Radar Init Ant	SE8798 SE2611-1 486909 486908 487473 487267 487268 487462	May Aug Feb Feb Feb	59 60 60 60 60 60 60 60	Dec 60 Sep 60 Oct 60 Feb 60 Dec 60 Oct 60 Oct 60 Dec 60
	6401 6403 6408	Tool	Kit-Computer LRU Kit-Inertial LRU Tool, Electronic A		486948 486947 487474		60 50 50	Dec 60 Dec 60 Dec 60

DURCT HUMBER

PROJECT TITLE

B-58 Weapon Control System TGSE (U)

STATUS

31 May 1960:

- Items in use without reported discrepancies:
 - a. 2414 Used once without malfunction. (U)
- b. 6409 Sealing Unit, Astrotracker, P/N 628268. This key item is not authorized. One on hand used four times without malfunction, (U)
- 2. Discrepancies:
- a. 2413 Difficulties encountered in using single star simulacrum previously reported. EOCP condition for flexible waveguide assemblies P/N 2650775 and P/N 2650776 since 16 March 1960. (U)
- b. 2415 TF UR'S 60-572, -573, -574, -575, -576, and -577 submitted pointing out major discrepancies of the basic equipment and instructions for use. Convair and Sperry are attempting to resolve Doppler Axis Alignment problems. (U)
- c. 4410 TF UR 60-538 submitted on inadequacies of item to perform satisfactorily. (U)
- d. 4414 TF UR's 60-537, -538 & -539 submitted on inadequacies of this item. (U)
- 3. Items not utilized:

Because of no A/C system support requirement the following items have not been used to date: 4411, 4412, 4415, 4416, 4417, 6401, 6403, 6408. (U)

31 August 1960:

During this reporting period a detailed coordination plan for lat Article Demonstration has been prepared for the shop testers and forwarded to higher headquarters. A detailed coordination plan for the mobile WCSO Test Set is being prepared and will be forwarded to higher headquarters. (U)

- 1. 2401, 2403, 2406 Estimated delivery date o/a 1 October 1960. (U)
- 2. 2404 Delivered on 22 July 1960. 1st Article Demonstration was initiated on 1 August 1960. During the first four weeks of

IV 165

PROJECT NUMBER

PROJECT TITLE

G-15

B-58 Weapon Control System TGSE (U)

BYATUS

the demonstration on P-1, 336 nours of tester time were available for self test and prime LRU testing. The tester has operated (Power "cn") for 230 hours. Thirty-two prime unit tests were run and twenty-nine self tests were run. During the course of these tests twenty-six Reliability Trouble and Failure Reports (RIFR's) and forty Requests for Alteration or Study (RFA's) were generated. Approximately 75% of all RFA's generated were on Technical Data. The low utilization time on the tester is primarily attributed to the non-availability of TGSE spares. To date the test set has not demonstrated a capability to support the tactical operation of ASQ-42V equipped B-38 aircraft for the following reasons: (U)

- a. Inadequate technical data, (U)
- b. Test tapes with improper sequencing and/or lack of required tests. $\left(U\right)$
- Incomplete data on compatability of a prime LRU which passed the tester when "married" to the prime system. (U)
- 3. 2409 Delivered on 27 July 1960. 1st Article Demonstration was initiated on 1 August 1960. During the first four weeks of the demonstration on F-1, 312 hours of tester time were available for self-test and amplifier testing. The tester was operated (Fower "on") for 191 hours. One hundred and fifty-nine prime unit amplifiers were tested which represent fifty-nine types out of seventy-five. Fifty-five self-tests were run. Fourteen RTFR's were submitted and sixty-five RFA's generated. Approximately 80% of the RFA's generated have been on Technical Data. To date the test set has not demonstrated a capability to isolate to a malfunctioning amplifier component because: (U)
 - a. Test logic for secondary testing is incomplete. (U)
 - b. Tech data inadequate. (U)
- c. Test tapes with erroneous parameters (known bad amplifiers checked out good on tester). (U)
 - d. Incomplete compatibility data. (U)
- 4. 2413 EOCP status unchanged since last report. An additional problem regarding poor battery life was presented to the B/N TGSE Problem Area Meeting on 8 April 1960 as Problem Nr. G-50. This problem is currently open. (U)

	PROJECT TITLE	
0-15	B-58 Weapon Control System	n TGSE (U)
Ų#		
transit case This problem	ases, Rack and Panel Transit, as of this set were not compatit was presented to the B/N TGSE April 1950 as Problem Nr. C-4 open. (U)	ible with the LRU's.
6. Items use	ed daily with no reported disc	repancies:
4411	4412 4415 4416 6403	(u)
7. Items not	t used because of:	
a. No A,	/C support requirements - 2414	, 6408. (U)
b. Non-	delivery - 2417, 6401. (U)	
s. Unsa	tisfactory condition - 2415.	(U)
d. Newly	y delivered - 4413 (delivered	26 August 1960). (U)
e. 4417.	. (U)	
8. Items use 1960:	ed daily but are unsatisfactor	y as reported in May
4410	4414	(U) .
2.2	ANALY LIPERS	
	Let 181, and E al. according to the control of the E-old Willy as require a special role of the control of the	1858 sval on pro- Control System IOS effort to evaluate the Item fire assistable for 2409, 2413 an 2414, ordination plus for Fir
	i 240j. 246 - Saturatan dagi	very date o/e 05 occube

IV 164

CARS 100 10 690 FC: 1710

G-15 B-58 Weapon Control System PGSE

two testers at Carswell AFB is as follows: 15EL 4-0% (ILRUTS)
1 Sep 66 ist Art. GSEL 2409 (ATS) 1 Sep 60 1st Art. Demons. Totals 30 Sep 60 Demons. 30 Sep 60 Totals 707 Available Tester Hours 454 Tester "Power On" Time 46 Prime Units Tested 55 Self Tests Conducted 371 683 159 350 233 55 Self Tests Condu 102** RFA's Generated 54 26 59 RIFR's Generated

*Includes 10 General RFA's applicable to all B/N Testers.
**Includes 38 General RFA's applicable to all B/N Testers.
NOTE Above data on P-1 Testers only at CAFB.

- b. 2404 The overall status of the First Article Demonstration which is being conducted at Carswell AFB on P-1 model testers and at Convair on X-2 model testers is as follows:
 - (1) All primary and secondary self tests have been verified
- (2) 27 of 56 sub-assembly tests have been verified on the Prime Navigation Stabilization Unit (PNSU), whereas 7 of 88 sub-assembly tests have been verified on the Auxiliary Reference Unit (ARU).
- (3) All secondary tests have been verified on the PNSU, whereas 74 of 84 secondary tests have been verified on the ARU.
- (4) All primary functional and primary continuity tests have been verified on both the PNSU and ARU.
- (5) All sub-assembly tests have been verified on the Vertical Accelerometer Unit (VAU).
- System have been tested through primary test. 27 amplifiers have been partially tested in secondary test. Handbook procedures for accordary testing of amplifiers are being revised by the Contractor and should be available by December 1960; therefore, secondary testing at this time is practically nil. Of the 75 type amplifiers tested, were actual malfunctioning amplifiers from prime equipment, the remaining 50 were supplied from pre-issue and/or spares. During the

G-15

PROJECT TITLE

B-58 Weapon Control System TGSE

STATUS

limited testing of amplifiers 4 incompatibility problems between prime system and/or ILRUTS sub-assembly tests and the ATS have been identified. At least 8 more amplifiers are suspected as being incompatible. Compatibility of these amplifiers will be proven upon delivery of secondary test procedures, the Radar LRU Test Set and Computer LRU Test Set.

d. On 24 September an RFA Review Meeting on the ILRUTS and ATS was held at Convair, Fort Worth, with representatives from B-58 WSPO, Headquarters SAC, AFPR, 43AEMS, 43DTES and Contractor in attendance. The purpose of this meeting was to review 239 RFA's generated as of 22 September. 191 RFA's were either corrected or were in the process of being corrected by the Contractor as Category I items (Contractor Deficiency) prior to the review. Air Force Board action was required on 48 RFA's. The following is a summary of the board actions on the 48 RFA's.

(1)	Contractor deficiency	51
(5)	Desirable item	3
(3)	Study item	8
(4)	Rejected by board	15

(4) Rejected by board 15
(5) Held in abeyance 1

5. Additional Comments - Calibration of B/N TGSE Automated Testers poses a problem which at this time has not been resolved by the Contractor. First, is there a need for calibration if the Pester passes self test? If the requirement exists T.O. procedures must be outlined, calibration equipment procured and AF area of responsibility must be delineated as to Pield Maintenance Shop, PME Laboratory and/or Depot. Until this calibration problem is solved, the B/N A&E Maintenance Field Shop would lose maintenance capability on B/N inertial LRU s if, for example, the Inertial LRU Test Set required calibration.

TEST AND EVALUATION PROJECT STATUS SHEET			
PROJECT NUMBER G-16	B-58 Spike Positioning System TGSE (U)		
C-3 of Part IV	Capt W. R. Southerland		

PROBLEM

To evaluate the TGSE associated with the B-58 Spike Positioning System (U)

REQUEST AGENCY	DATE INITIATED	COMPLETION DATE	AUTHORIZATION	
B-58 Test Force	May 1960	Est Apr 1961	AFR 80-14	

TATUS

Four Key Items: 3 Testers, 1 Ground Handling, 0 Tools (U)

GSEL	NOMENCLATURE	P/N	1st Art Del Date	Est Comp Date
2602	Test Set-Spike Pos Sys	UG291C-1	Feb 60	Dec 60
2504 2605 4601	Preumatic Test Set-Spike Pos Sys Elect Tester-Actuator, Spike Pos Fixture Assy-Spike and AC Gen	UG910A-1 SE8808 SE2890	Feb 60 Feb 60 Feb 60	Dec 60 Apr 61 Comp May
4001	Time in the second			60 (U)

31 May 1960:

1. Items in use with no reported discrepancy: 2602, 2604. (U)

2. Discrepancies:

a. 4601 - Item was evaluated and found unsatisfactory for SAC maintenance concept reference TF UR 60-494 dated 22 April 1960. Item has been cancelled and satisfactory interim items CSEL 3617 and 4613 substituted. (U)

3. Items not used.

a. 2605 - Aircraft and Engine Technical Orders do not clearly state the requirement for use of this item. FSE 45D-5A1-6-2-2 dated 12 December 1959 has not been incorporated in TO 5A1-6-2-2 to date. Action is being taken to bring this discrepancy to the attention of the proper Convair personnel. (U)

G-16 B-58 Spike Positioning System TGSE (U)

31 August 1960:

- 1. 2602 Item is satisfactory for shop use, utilized approximately three times weekly. Item is not satisfactory for flight line use as vibration causes calibration problems. FSE 4-101 states that vibration tests were performed on components and vibration test will not be performed on unit. (U)
- 2. 2604 Used approximately once each day with good results.
- 3. 2605 No change from May 1960 status. (U)

30 September 1960:

- 1 The Category III TGSE Evaluation Plan that became effective 1 August 1960 designates data collection and TGSE Evaluation during normal maintenance usage of the spike positioning peculiar TGSE. The following exceptions require a special effort to evaluate through all possible modes of operation in the limited time available for the evaluation. GSEL 2602, 2604, 2605.
- 2. GSEL 2602 and 2604: No change from 31 August status.
- 3. JSEL 2605: Item is scheduled for operational check and Technical Data review 4 October 1960. Item has been used a total of 18 hours.

	TEST AND EVALUATION PROJECT STATUS SHEET
PROJECT NUMBER G-17	B-58 Radar Beacon System TGSE (U)
G-3 of Part IV	CMS M. V. Kiff

To evaluate the TGSE associated with the B-58 Radar Beason System. (U)

REQUEST AGENCY	DATE INITIATED	COMPLETION DATE	AUTHORIZATION
B-58 Test Force	May 1960	Estimated September 1961	AFR 80-14

Four Key Items Authorized: 4 Testers (U)

GSEL	NOMENCLATURE		PSN	1st Art Est Comp Del Date Date
2801	Test Set-Confidence, RV Test Set-Performance	Bea	105044-1 1050530 1054651	30 Aug 60 May 61 Jun 61 Sep 61
2803 2851	Test Set-Components Test Set-Confidence, PI	Bea	1050438	May 61 (U)

31 May 1960:

No delivery on any item. (U)

31 August 1960:

2801 - Delivered 30 August 1960. Beacon Systems are installed in eight assigned aircraft. The maintenance activity has had no tactical test equipment. With delivery of 2801, only a very limited capability has been realized. (U)

30 September 1960:

The Category III Evaluation Plan that become effective 1 fugust 1960 designates data collection and TOSE evaluation during normal maintenance usage of the possible rough. The following exceptions require a special effort to evaluate through all possible modes of operation in the limited time evaluate for the evaluation: 35EL 2801, 2802, 2803 and 2851.

OSEL 2801 - The Teater was used three times during the month of September in attempts to sheek but installed director systems. O

PROJECY	HUMBER	PROJECT TITLE
	3-427	3-58 Redar Zeason System TGSE
	local rade	ion, interference was experienced, apparently from rs. Which caused excessive code readouts on the Tester ive action has been taken to date.
		they are compared to the second
		IV-173

	TEST AND EVALUATION PROJECT STATUS SHEET
PADIEST NUMBER	PHOJECT TITLE
9-18	B-58 AF Standard and Commercial Common TGSE (U)
C-3 of	PROJECT GFFICER
Part IV	Capt W. R. Southerland

To evaluate the TGSE associated with the B-58 Air Force Standard and Commercial Common TGSE. (U)

REQUEST AGENCY	DATE INITIATED	COMPLETION DATE	AUTHORIZATION
B-58 Test		Estimated	
Force	May 1960	Indefinite	AFR 80-14

Three Key Items Authorized: 3 Testers (U)

GSEL	NOMENCLATURE	P/N		Art Date	Est Comp Date
7057 7058 7348	Generator-Signal, BC-376-L Generator-Signal Radio Test Set	BC376L SG-13-ARN AN/ARM-25- TACAN	Dec Nov May	59	Jan 61 Dec 60 Jun 61

31 May 1960:

- 1. 7068 being evaluated with tactical aircraft. (U)
- 2. 8078, MD-3 Nitrogen Trailer Non-Key Item, specific item report G-18-1 dated 31 May 1960 lists deficiencies and recommended corrective action. (U)
- 3. Item not Utilitzed:

7348 - "Suitable substitute" received end of May 1960. No technical data delivered with them. (U)

31 August 1960:

- 1. 8094 A/M 320-6, Air Conditioner, Ground, Engine Driven (MA-3 modified). A prototype inspection and preliminary testing meeting was held at Recony, Richmond, Va., 3-5 August 1960, with representatives of the 43rd Bomb Wing, MOAMA, WADD and Recony in attendance. The 1st Article for Service Test by the 43rd Bomb Wing was scheduled to be shipped by Recony 15 August 1960; however, MOAMA had not issued shipping instructions as of 30 August 1960. (U)
- 2. 8095 A/M 32C-7, Air Conditioner, Ground, Electric Driven (A/M 32C-5 modified). Estimated delivery date of 1st article

TOJECT NUMBER PROJ

G-18 | B-58 AP Standard and Commercial Common TGSE (U)

STATUS

for Service Test by the 43rd Bomb Wing is 15 October 1960. (U)

- 3. Specific Item Report Nr. G-18-2, dated 31 August 1960, reports on the evaluation of the Model 640-110 portable ARD-PAK Lubricator (Grease Gun). It was recommended that this item be authorized for B-58 Wings in a quantity of one per periodic dock. (U)
- 4. 8042 Tractor Wheeled, Industrial, MB-4 Reference GSE Sub Comm at SAAMA, 23-24 August 1960, Memphis AFD stated that new modified MB-4's would be delivered to Carswell AFB according to the following schedule: 1 on or about 15 September 1960, 8 on or about 15 October 1960. These MB-4's are to have provisions for air and 6 voit electrical systems. (U)
- 5. Items in use without discrepancies: 7057, 7068. (U)
- 6. Item not utilized:

7348 - No TACAN systems are installed on assigned B-58 aircraft. However, the item is used regularly to check out TACAN systems on the assigned TF-102 aircrart, operating instructions are on hand and in use. (U)

30 September 1960:

- 1. The Category III TGSE Evaluation plan that became effective 1 August 1960 designates data collection and TGSE Evaluation during Normal Maintenance usage of the AF Standard and Commercial Common TGSE. The following exceptions require a special effort to evaluate through all possible modes of operation in the limited time available for the evaluation. GSEL: 8094, 8095.
- 2. 8042 Specific Item Report Nr G-18-3, dated 8 September 1960 reports on the limited evaluation of Five Commercial Tractors for B-58 pod handling.
- 3. No changes in items 2, 3, 5, and 6 of August 60 status.
- 4. 8094 A/M 32C-6, Air Conditioner, Ground, Engine Driven (MA-3 Modified). Item delivered 10 September 60 with 122.95 hours on unit. Service test presently on stop as one (1) micron inlet air filters failed. New type filters to be delivered on or about 5 October 1960. Unit has 177.83 hours as of 29 September 1960. Recommendations for minor modifications have been given to MOAMA and Recony Corporation.

YEST AND EVALUATION PROJECT STATUS CONTINUATION SHEET FRIDER THAT PROJECT NUMBER B-58 AF Standard and Commercial Common TGSE G-18 STATUS 5. Specific Item Report Nr G-18-4, dated 19 September 1960, reports on the evaluation of the 1C2874-G2 Inlet Guide Vane and Afterburner Fuel Manifold Tester, and the 1C2873-G2 Nozzle Actuator Tester for use in J-79 Engine Maintenance for the B-58 aircraft. IV-176

TEST AND EVALUATION PROJECT STATUS SHEET PROJECT NUMBER O-19 Special Projects, IGSE (U) PROJECT OFFICER O-3 of Part IV Capt W. R. Southerland

To evaluate the TGSE associated with the B-58 not covered in other systems. (U)

EQUEST AGENCY	DATE INITIATED			
B-58 Test		COMPLETION DATE	AUTHORIZATION	
Force	May 1960	Indefinite	AFR 80-14	

31 May 1960:

- 1. Bar Assy, "Vee" Aircraft Movement. An evaluation of a prototype "Vee" tow bar was conducted by the B-58 Test Force. It was recommended that two of these be provided each B-58 Wing for other than normal towing of the B-58. Convair submitted GSEL Nr 3109.1 on this item. (U)
- 2. Stand Assy Sheltered Maint. The B-58 Test Force submitted a letter to the B-58 WSFO 1 February 1960 outlining the problems associated with foul weather maintenance of the B-58. Hq SAC Msg DM4B40497, 5 May 1960, voiced non-concurrence in the requirements for portable sheltered aircraft maintenance stands. Convair submitted GSEL Nr 3108.3 on this item. (U)
- 3. B-58 Maintenance Platforms (Periodic Maint. Stands). The B-58 Test Force evaluated a set of prototype periodic maintenance stands manufactured by the Mid-States Ornamental Iron Company. Recommended modifications were forwarded to the B-58 WSPO 1 February 1960. Action is being taken to incorporate the intent of these recommendations in production models of these stands. (U)

31 August 1960:

- 1. No enamge in paragraphs 1 and 2 above. (U)
- 2. B-58 Maintenance Platforms as of 19 August 1960 Purchase Request had not been initiated by MOAMA (Ref GSE Sub Comm meeting SAAMA 23-24 Aug 60). Normal lead time for this type item is six months. (U)

TEST AND EVALUATION PROJECT STATUS CONTINUATION SHEET G-19 Special Projects, TGSE 30 September 1960; 1. No change in 31 August 1960 status, IV-178

TEST AND EVALUATION PROJECT STATUS SHEET

PROJECT NUMBER	PROJECT TOTLE
G-20	B-58 TGSE Technical Data (U)
REPORT SECTION	PROJECT OFFICER
C-3 Fart IV	Capt Kilpatrick

To evaluate adequacy of technical data for B-58 TGSE (U)

B-58	DATE INITIATED	COMPLETION DATE	AUTHORIZATION	
Test Force	May 1960	Indefinite	AFR 80-14	

31 May 60

- 1. Technical Data Index (IB-58A-01) has gross omissions of TGSE T.O. Nrs. (U)
- 2. TGSE technical data inaccuracies are prevalent (i.e. 41 T.O. RFA's on DECM first article demonstration of four shop testers). (U)
- 3. Technical Orders for TGSE call for TGSE support equipment not authorized or Air Force identifiable (GSEL 3156: TO 35D12-2-2-71) Calls for 18 items of special equipment to support compressor pack air gas turbine. None are ECL listed, seven have recent GSEL's submitted without action). (U)
- 4. A report is being prepared to present the status of technical data being delivered to the Test Force to support TGSE of the B-58 Weapon System (U)

3! Aug 60

- 1. A Technical Data Sub-Committee has been formed composed of representatives from 43d BW, 19 AD, 2AF, SAC, CVAC, AFPR, SAAMA, AMC-ASC, AMC, WRAMA, and Convair. An initial meeting was held on 13-15 July 60 and the second meeting on 9 Aug 1960. (U)
- 2. The Sub-Committee is reviewing the technical data for the entire B-58 Weapon System including the B-58 TGSE and taking aggressive action to correct identified discrepancies. (U)
- 3. As a result of the greatly increased emphasis placed on correcting TGSE technical data inadequacies including the sub-committee action indicated above the following action has been taken: (U)

17-179

G-20 B-58 TGSE Technical Data (U)

STATUS

- a. Bomb/Nav System TGSE
- (1) T.O. 11B2-2-10-8-1, 11B2-2-10-8-2 and 33 D5-2-14-8-1 pertinent to GSEL 2409 inertial LRU Test Set (ILRUTS) have been RFA'd 57 times to date with some RFA's listing 20 to 50 page changes. (U)
- (2) T.O. 33D5-7-12-8-1, 11B42-4-2-8-1, 11B42-4-2-8-2, 11B42-4-2-8-3, 11B47-9-2-8-1, 11B47-9-2-8-2, and 11B47-9-2-8-3 pertinent to GSEL 2403, Amplifier Test Set (ATS) have been RFA'd 26 times. Several RFA's list 40 or more page changes (U)
- (3) Status of $66\ T.O.$'s involved in first article demonstration of ILRUTS and ATS is: (U)
- (a) 60 T.O. 's on TGSE Modules (TGSE Drawers) exist by T.O. number. No revisions have been made even though most basic T.O. dates are as old as August 1959. Sperry has promised complete revision and up-dating by 30 Oct 60. (U)
- (b) The -1. -2, and -4 T.O.'s on the ILRUTS and ATS are being revised during the demonstration. (U)
- (c) T.O.'s 33DA17-5-12 and 33DA 17-5-14 (Servo Voltage Comparator Module), 33D7-41-3-2 and 33D7-41-3-4 (Inertial Central Routing Assembly Modules) and 33D7-41-2-2 and 33D7-41-2-4 (Amplifier Central Routing Assembly Modules) are to be revised by Sperry at Carswell AFB during demonstration (U)
- (4) The Operator's Instruction Notebooks (preliminary -8T.O.'s) on amplifier checkout are being revised to include a general section for amplifier checkout as well as complete secondary testing procedures for amplifier component fault isolation. Completion of these revisions is programmed for approximately 75 days from now. (U)

b. IBDA System TGSE

- (1) RFA's were submitted during First Article Demonstration (18-19 Aug 60) on multiple corrections in the following T.O.'s: 11B1-2-2-2 (Sections 3, 6, & 7), 33D2-2-2-2 (Sections 1, 2, & 4), 33D2-26-2-3 (Sections 1, 3, & 4), 33D2-26-2-11 (Sections 2 and 3) and 33D2-26-2-12 (Sections 1, 4, 6, & 7). (U)
- (2) First Article Demonstration was cancelled in August on two items because of inadequate Technical Data. (U)
- (3) T.O.'s 33D2-26-2-21 (Sections 2 & 3) and 33D2-26-2-22 (Sections 1, 2, 4 & 6) have been revised by Supplemental Data. (U)

Contamus Charge

U-20

B-58 TGSE Pechnical Data

PROJECT TOTLE

WAVE

c. Bomber Recording System; 1 RFA at QMI #3 and 2 RFA's on First Article Demonstration on Technical Data. Technical Data is now at a workable level. (U)

- d. Defensive ECM: 1 RFA at QMI #3 and 41 RFA's at First Article Demonstration on Technical Data. Voluminous supplemental data has been received to raise Technical Data to workable level. (U)
- e. <u>Civil Nav Aids</u>: 25 RFA's on Technical Data at First Article Demonstration. Supplemental Data has been received to raise Technical Data to workable level. (U)

f. Mil Nav Aids:

- (1) 2 RFA's at QMI #3 and 2 at First Article Demonstration on Technical Data. (U)
- (2) 1 RFA covered 112 pages in three technical orders with pages requiring up to twenty corrections per page. (U)
- (3) Supplemental data has been received to raise Technical Data to a workable level. (U)

g. Gemmunications:

- (1) 28 RFA's on technical data at First Article Demonstration
- (2) Many items are still uncorrected and data is in an unsatisfactory condition. (U)

h. Fire Control System

- (1) 6 RFA's at First Article Demonstration on Technical Data.

4.. Continued aggressive action is being taken by the 43BW to provide detailed T.O. evaluation and report all discrepancies through AFTO Form 22 action. (U)

I Third Tech Data Sub-Courties mobile held at Conveir, Fort Worth, on 13 September 1500 Surveys of First Article Regimetration (FAD) pech Data RPA Action, 150 APA's counties, 93 RPA's corrected, 05

PADJECT NUMBER

PROJECT TITLE

3-20

B-58 Task Technical Data

ATATUS

- 2 The above does not include Bomb/Nav FAD RFA s or Tech Data There have been 140 Tech Data RFA s submitted listing 1-50 pages of data per RFA A Convair-Sperry team is at Carswell AFB correcting these deficiencies as they are noted during FAD.
- 3 With four exceptions the Tech Data for TGSE is basically at a workable level and can be corrected, as necessary, through AFTO Form 22 or AMA authorized contractor support on an on-call basis as a routine matter.
 - a Borb/Naw as noted above
- b Communications 15 of 28 RPA's on Tech Data have not been corrected since the PAD 72 days ago.
- c IBDA TOSE Tech Data inadequacies still uncorrected as per 31 August 1960 status
- d DECM IGSE maintenance Tech Data on GSEL 1509, Mobile Tester, has been demonstrated as inadequate and incomplete. Action is being taken to effect necessary revisions.
- 4 The next Fesh Data Sub-Committee is scheduled to be held on 21 October at Convair, Fort Worth

SECTION C PROJECTS

4. Projects completed but awaiting action by agencies other than 43rd Bomb Wing (M).

SIR No.	Subject	Date
A-1	Failure of Drag Chute Compartment Doors to remain Latched	30 Sep 1960
A-7	Tax. Light Evaluation for Adequacy	30 Sep 1960
A-11	Air Leakage through C-4 Valve Core	30 Sep 1960
C -2 -1	Evaluation of Landing Gear Demount Fixture Assembly	31 May 1960
G-3-1	Communications TOSE	30 Sep 1960
G-10-1	Evaluation of Test Fixture for Gyro & Accelerometer Table, GSEL 3912, PNSE 2836	26 Sep 1960
G-11-2	Evaluation of Permanent Hydraulic Filter Cleaning Methods	31 Aug 1960
G-15-1	Photo Recorder Camera	30 Sep 1960
G-18-1	Evaluation of MD-3 Natrogen Servicing Trailer	31 May 1960
G-18-2	Evaluation of MOD 640-110 Aro-Pak Lubricator	31 Aug 1960
G -18 -3	Limited Evaluation of Five Commercial Tractors for Pod Handling.	8 Sep 1960
G-18-4	Evaluation of the 1C2874-G2 Inlet Guide Vane and Afterburner Fuel Manifold Tester and the 1C2873-G2 Nozzle Actuator Tester for J-79 Engine.	19 Sep 1960

^{*}These Specific Item Reports were submitted by the B-58 Test Force to the B-58 WSPO.

SECTION C PROJECTS

6. Index of Specific Item Reports (SIR's) published on completed projects.

	SIR NO	Subject	Date
	A-1	Failure of Drag Chute Compartment Doors to remain Latched	30 Sep 1960
	A-7	Taxi Light Evaluation for Adequacy	30 Sep 1960
	A-11	Air Leakage through C-4 Valve Core	30 Sep 1960
	G-2-1	Evaluation of Landing Gear Demount Fixture Assembly	31 May 1960
	G-3-1	Communications TGSE	30 Sep 1960
	G-10-1	Evaluation of Test Fixture for Gyro & Accelerometer Table, GSEL 3912, PNSE 2836	26 Sep 1960
	G-11-1	Evaluation of Permanent Hydraulic Filter Cleaning Methods	31 Aug 1960
	G-15-1	Photo Recorder Camera	30 Sep 1960
*	G-18-1	Evaluation of MD-3 Nitrogen Servicing Trailer	31 May 1960
	G-18-2	Evaluation of MOD 640-110 Aro Pak Lubricator	31 Aug 1960
	G-18-3	Limited Evaluation of Five Commercial Tractors for Pod Handling.	8 Sep 1960
	G-18-4	Evaluation of the 1C2874-G2 Inlet Guide Vane and After- burner Fuel Manifold Tester and the 1C2873-G2 Nozzle Actuator Tester for J-79 Engine.	19 Sep 1960

^{*} These Specific Item Reports were submitted by the B-58 Test Force to the B-58 WSPO $\,$

PART V SUPPLY

SECTION A General Analysis

- 1. The B-58 Supply Effectiveness for the month of September 1960, as shown in Section B, has improved. The requests covered priority requisitions in the areas of AOCP ANFE, A/AOCP, A/ANFE, EOCP, W/S, ASSOC, and SFR.
- a. Joint action is being taken by the B-58 Test Force, Base Supply, Convair (WSSS), and LSM (SAAMA) to improve the WSSL and aircraft dash 4. The September WSSL listing had approximately 58,128 line items and the October supplement will contain about 2,000 more line items. Further, informal information from personnel at Kelly B-58 LSM indicate that future amendments to the WSSL will be skimpy and probably will never be in final format document, because of a recent Hq USAF decision in this area.
- The following information is submitted regarding Repair and Return Program and items that were verified as AOCP and ANFE.
 - a. Repair and Return to WSSS
 Processed for R&R 55
 Returned as of 30 Sep 40
 - b. Verified AOCP and ANFE
 L/I verified as AOCP
 Rovd in less than 12 hrs77
 Rovd in less than 24 hrs 9
 L/I verified as ANFE 14
 Rovd in less than 12 hrs 9
 Rovd in less than 24 hrs 5

3. Consolidated Organizational Supply Division:

- a. This activity has completed mechanization of the account. AF Form 158, Unit Authorization and Property Record have been prepared and submitted to statistical services for processing into stock number sequence and the printing of a list for verification of on hand quantities. This project was completed 3 days prior to the scheduled date of 30 Sep 60.
- b. The AF Form 538, (Indivisual Clothing and Equipment Record Branch) has been completely rewarehoused to comply with current directives. This included such items as fabrication of metal racks with individual boxes for each assigned mechanic and all flying Officer, repainting as necessary and insuring the proper marking of all property on hand.

c. The Organizational Supply Division function is progressing toward a well organized and productive division in support of the 43rd Bomb Wing. Within the next 60 days there will be a UAL Review and alignment with UMD, ECL Review, printing of a new UAL and the annual in use inventory. Manning is good body wise, however there is considerable room for improvment in experience level of the newly assigned personnel.

4. Aircraft Support Division.

- a. TF-102 Equipment Review: A joint maintenance and supply team ECL/UAL review was completed on 2 Sep 60. The SAC Forms 144, covering 2 ECL Changes and 70 Line Items on UAL Change Requests, were forwarded to Base ERB on 21 Sep 60.
- b. Reevaluation of TF-102 Bench Stock for Dock 7 was completed on 28 Sep 60.
- c. The B-58 Quickie List was completed and assembled and issued to maintenance on 28 Sep 60.
- d. J-79 Engine QEC Kit and afterburner requirements: The phased requirement during the buildup period of 1 Oct 60 were forwarded to the mase supply Office with information copies to the WSSS, AFPR, and SAAMA Liaison Office. Total requirements as set forth in SAC Message DM3A2-12432, 10 August 60 were present.
- e. Field Maintenance Pre Issue: The chain link security fence was completed on 22 Sep 60. All Individual shop Pre-Issue, except EBU, Ground Power, and Tire Buildup, will be consolidated by 3 Oct 60. We have also consolidated a second tool crib in this area thereby reducing manpower requirements. This is a second area of consolidation as the A&E Pre-Issue and tool crib consolidation was completed during August 60. This manpower saving will allow for future consolidation of EBU and Ground Power Pre-Issue, as well as the tool crib within their work areas in the near future.

SECTION B Specific Data

1. The B-58 Supply Effectiveness for the month of September is as follows:

sace orders by:	Base Supply Total	848 - 53.6% 954
Cancelled for all causes	WSSS Base Supply Total	388 97 485
Bench Stock and Pre	-Issue status as	of 30 Septembe
Bench Stock:	FIIN	Non-FIIN
Number of shops	17 h 2098	11 457

Additions this month	89	81
Deletions this month	35	30
Pre-Issue:		
Number of shops	7	6
Number of line items	240	104
Deletions this month	9	6
Additions this month	24	5

3. The Weapons System Index Card Inventory in Base Supply for September 60 consists of:

_90 (R-58) 24 (TF-102)

-90	(B-58)	24 (TF-102)
Category I Category II Category III TOTAL	548 4004 7199 11751	120 699 779 1598

4. Support Equipment status as follows:

1960, as

Line it	ems auth:	UME	USE		TOTAL
	LP CP	48 741	203 572		251 1313 1564
Line It	cems on-hand Complete Partial	587 94	544 91	TOTAL	1131 185 1316

Dollar Value Auth: UME USE LP 9 10,326.42 \$ 238.826.60 \$ GP 9,719,064.64 6,705,119.13 1 \$ 245,153.02 \$16,424;163.77 \$16,673;336.79

Dollar Value on hand:

CP \$5,914,022.62 \$4,980,335.58 \$10,894,358.20 P 8,103.18 214,331.54 222,434.72

\$22,434.72 \$11,116,792.92

5. CME (S-83) status - as of 30 September 1960:

LINE ITEMS

END ITEMS

Total line items controlled: Total line items complete: Total line items marginal: Total line items deficient: Total line items critical: Fercent line items complete:	324 256 39 29 24	Total end items controlled: Total end items on-hand: Total end items short: Percent end items on-hand:	1224 951 273 77.6
--	------------------------------	---	----------------------------

- b. As of 22 Sep 60 total line items controlled was reported as 333. Reasons are as follows: CME line item #741,743,748,762,765, and 778 were deleted from CME List, authority SAAMA letter, dated 16 Sep 60. CME line item #761 was deleted from CME List, authority SAAMA S-83 Report, 1 aug 60. CME line item #301 and 790 were deleted from CME List authority SAAMA S-83 Report, 1 Sep 60
- 6. Individual Proficiency Training:
- a. The IPT Program within the supply directorate is progressing very satisfactorily. At the present time there are 13 airmen on training; 7 of these airmen are AFSC 64630; 2 are AFSC 70230; 2 are AFSC 64650; 1 is AFSC 70250, and 1 is AFSC 70010. Two airmen were upgraded from AFSC 64630 to AFSC 64650 during the month of September. (U)

SECTION C Problem Areas

- 1. Lack of a lay-in of spares for common ground support equipment in the WSSS: This problem was assigned to SAAMA Liaison Office for corrective action. The Base Supply Officer was requested to lay-in a Table VI for this equipment by the 43DSUP. Follow-up on status will be reflected each month until spares are available.
- 2. QEC Kit Shortage: This problem was created by long procurement lead time and uncertain status of TOC Kits to update spare QEC Kits. It appears that a temporary solution will alleviate the immediate problem around 1 Nov 1960. This situation will reoccur unless TOC Kits are procured to update the spare QECs whenever a change is made. One such change is in the process of being published now is T.O. 1-258-561.

t that time sufficient basic Rits will be available to buildup assigned engines. The +5BW requirement will be projected over the procurement soudule by the AFFR (Janvair) for presentation to 43DSUP and 43DCM for their concurrence on 7 Oct 60.

5. Afterburners: WSSS informed 43DSUP that afterburners were available in sufficient quantities but TOC's, 2J-J79-S60, were not available for installation. Further status will be forthcoming on these items on 7 Oct 60.

4. MC-1 Type Sleeping Bag: A sleeping bag was received for evaluation and possible packing for north-bound flights. We have tested packing it in the seat cushion cover and found that the plastic bag, in which sleeping bag was packed was not strong enough to hold a good vacuum, thereby allowing the cushion to stretch over emergency handle and wedge assemblies. Found information in T.O. 1483-1-51 to the effect that no kit can be used on the back style parachute in the B-58 ejection seat. We have also tested packing the bag inside forward compartment of survival kit and found that this would necessitate removal of survival rifle, ammunition, desalter kit, and one ration. We are presently working on the feasibility of using a stronger non-stretch material on top of bag. Wright Air Developement Division is assisting with information on feasibility of packing sleeping bag in seat cushion. Will request assistance from 2AF at a later date, if required.

5. Movement of WSSS to SAAMA: Reference SAAMA message SANB-9-36, 29 Sep 60, and 2AF message DM3-3910, Sep 60. The movement of the WSSS to San Antonio before the completion of the following actions at Carswell will be detrimental to the SAC B-58 Program:

a. Laying-in of adequate aircraft spares in Base Supply, plus purification of these stocks.

b. Completion of all phases of Category III airframe, systems, and ground support equipment testing in accordance with AFR 80-14.

c. Lay in of Table VI spares in support of ground powered equipment.

d. Stabilization and purification of the bench stock and preissue requirements.

e. Lay-in of FAK and initial purification of this kit.

f. Overall AF improvement in the transportation of equipment and supplies in support of a tactical wing's requirements.

g. Additional purification of FCL 285, 43UAL, lay-in of new equipment, and their ultimate successful testing and evaluation as to adequacy and applicability to the B-58 Weapons System. h. This organization believes wholeheartedly in the IM and LSM concept within AMC and has no quarrel with this concept, the exception is timing. We firmly believe that the movement of the storage site is premature by 1 year, 1.6. retain the WSSS in its present location until the end of Fiscal Year 62, based on the facts cited above.

SECTION D Recommend Action

- 1. Second AF expedite the manning document changes requested.
- 2. Retain the WSSS in its present location thru fiscal year 62.
- 3. Prevail upon the LSM to improve the WSSL without further delay.
- 4. Expedite procurement of TOC Kits for existing lowered configured QEC Kit, as well as increasing quantity of updated QEC Kits to meet later replacement engine allocation.

PETE M VASALIE Major, USAF Director of Supply

PART VI SAFRIY

SECTION A General Analysis

September was a accident free month for Flying and Ground Safety.

SECTION B Specific Data

1. Flying Safety.

a. Nine Operational Hazard Reports (OHR), were received by the h3d Bomb Wing Flying Safety Office. Four OHR's were forwarded to 2AF.

b. A 35mm Slide Presentation was completed and is being used to brief new flight crews and Staff Officers.

c. Aircraft Pre-Accident guide notebooks were completed and all 43d Bomb Wing Accident Board Members were briefed on contents of notebooks.

2. Ground Safety

An accident free month was attained by the 43d Bomb Wing.

SECTION C Problem Areas

The 43d Bomb Wing Safety Officers Pre-Accident Kit was requested 20 Apr 60, to meet requirements of AFM 62-5, Attachment 3, 24 Mar 60. The equipment in this kit is mandatory for the USAF Industry Accident Investigation Board which will investigate any B-58 Major accident. Portions of this kit will be used in the daily accident prevention program. Unit Authorization List Change (DJGG-142-300) was forwarded to SAC 1 Jun 60. This is a repeat item.

SECTION D. Recommended Action.

Request that equipment needed for Pre-Accident Kit be approved as soon as possible so the kit can be assembled and available for the Industry Investigation Board.

SECTION E. Project Status. None

ROBERT F. ERBE

Major, USAF Director of Safety

PART VII - CIVIL ENGINEERING

SECTION A General Analysis

In FY 1960 seven projects totaling \$187,034 were placed under contract for items in direct support of the 43rd Bomb Wing. The FY 61 O & M program includes 15 projects totaling \$527,583 required for direct support of the 43BW and two projects totaling \$14,100 which are required for other units due to relocation of facilities caused by activation of the 43BW. Initiation of design on FY 61 items by the Civil Engineer was delayed due to the urgency of his Engineering Division completing design work on items in the FY 60 program, to revisions to projects under contract such as project CRS 45-0 (facility for B-58 simulators), and to inspection work on projects under contract. Since original submission of the 43rd Bomb Wing O & M Program, a number of changes have been initiated by the various wing organizations which have, in some instances, changed the scope of projects. Although such changes were necessary to meet variables in operational requirements, they did result in some delays and additional expenditure of engineering manhours.

SECTION B Problem Areas

- 1. The Civil Engineer's UMD provides for normal maintenance and operation of the base and is not designed for crash engineering programs. His new UMD provides for additional engineers who, when employed, will enable design work to move at a faster pace; however, major projects such as CRS 13-1, On Base Pod Storage; CRS 12-1, Modify M & I Bldg, will require the services of Hq 2AF's centralized Architectural Engineer.
- No additions have been made to the Civil Engineer's UMD to provide for the additional work load in the Repairs and Utilities Division caused by the activation of the 43BW; rather, his current UMD provides for fewer spaces than the March 60 UMD.
- . c. The attainment of the FY 61 O & M program will be dependent upon the engineering of projects and the funding of that program.

SECTION C Recommended Action

Expeditious action on project approvals as required and funding of projects when projects are ready for contractural action.

SECTION D Project Status

P341 Funds (O & M Program)

Project Number: CRS 13-1 .

Project Name: Pod Storage on Base, \$118,000

Estimated Completion Date: Unknown

Remarks: This project is being processed by higher headquarters. SAC has requested USAF approval. Design will be accomplished by 2AF A-B. New siting has been submitted to higher headquarters (7 Oct 60) for final determination.

Project Number: CRS 56-1

Project Name: Paved access to igloos SSF area, \$67,300

Estimated Completion Date: Unknown

Remarks: SAC has requested USAF approval. Design will be accomplished by Base and is approximately 50% complete.

P459.3 Funds (O & M Program)

Project Number: CRS 139-0

Project Name: Heat Maint Dock, Bldg 1048, \$35, 183

Estimated Completion Date: 29 Nov 1960 Remarks: Project under construction

Project Number: CRS 140-0

Project Name: Heat Maint Dock, Bldg 1049, \$35, 183

Estimated Completion Date: 29 Nov 1960 Remarks: Project under construction.

Project Number: CRS 12-1

Project Name: Modify M & I Bldg, SSF Area, \$42,800

Estimated Completion Date: Unknown

Remarks: Design directive issued by SAC. Design will be accomplished by $2AF\ A-E$.

Project Number: CRS 14-1

Project Name: Modify igloos, SSF area Pod Storage, \$23,200

Estimated Completion Date: 1 March 1960

Remarks: Project has been funded; however, design is being delayed due to work being accomplished on projects 15-1, 19-1, and 16-1.

Project Number: CRS 19-1

Project Name: Ground power equip, Bldg 2121, \$20,200.

Estimated Completion Date: February 1961

Remarks: Design being accomplished by Base Civil Engineer, approximately 15% complete.

Project Number: CRS 141-0

Project Name: Electrical Modification, Bldg 1050, \$53,000

Estimated Completion Date: March 1961

Remarks: Project is in procurement for advertising.

Project Number: CRS 9-1

Project Name: Air Condition Bldg 1550, \$42,400 (includes 7BW Command

Post'

Estimated Completion Date: Unknown

Remarks: SAC must get project included in FY 61 USAF Air Conditioning Program. Design has been completed by the Civil Engineer and submitted to 2AF for approval.

P459.1 Funds (Not in approved O & M Program)

Project Number: CRS 21-1

Project Name: Rehab Bldg 2160, \$27,500

Remarks: Form 734 submitted to 2AF 1 Sep 60.

P458 Funds (Base level approval, funding by 2AF)

Project Number: CRS 129-9

Project Name: Increase Air Cond in Rapcon, \$6,300

Remarks: Plans previously forwarded to 2AF for technical review have been returned for further revision. Such revision is now under way. This project was included in FY 60 USAF Air Conditioning Program, but is not approved in the FY 61 Air Conditioning Program. Present policy does not permit carry-over of a project from one fiscal year to the next without specific approval by USAF for air conditioning.

Project Number: CRS 100-0

Project Name: Modify Sq Ops, Eldg 2164, \$9,900 Estimated Completion Date: 15 December 1960

Remarks: Project is now being advertised with bid opening date 11 October.

Project Number 101-0

Project Name: Modify Classrooms, Bldg 2164A, \$12,300

Estimated Completion Date: 15 Dec 60 Remarks: Bids Received, contract awarded.

Project Number: CRS 15-1

Project Name: Whse Stor & Issue Base, Bldg 1133C, \$16,000

Estimated Completion Date: Feb 61

Remarks: Engineering design is 90% complete. This is a composite project including electrical rehabilitation for A & E, 65 CCTS, and 415 FTD Bomb Nav craining classrooms. The project, including all work scheduled for Bldg 1133C, will increase the funding requirement indicated in original project.

Project Number: CRS 16-1

Project Name: Whse Stor & Issue Base, Bldg 2122, \$7,400

Estimated Completion Date: Feb 61

Remarks: Design will be by base, 10% complete.

Project Number: CRS 20-1

Project Name: Mod Shop Arm & Elec, Bldg 1055, \$4,500

Estimated Completion Date: Unknown

Remarks: Design will be by base, 0% complete. some electrical work included in the scope of this project has been completed by Civil Engineering forces

Project Number: CRS 24-1

Project Name: Education Center, Bldg 2177, \$8,400

Estimated Completion Date: Unknown

Remarks: Building required for IPT program and on base educational program.

Project Number: CRS 32-1

Project Name: Education Center, Bldg 2178, \$5,700

Estimated Completion Date: Unknown

Remarks: Design will be by base, 0% complete. Building required for IPT

program and on base educational program.

P341 Funds

Project Number: CRS 87-0

Project Name: Blase Deflectors for B-58 Aircraft

Remarks: Form 734 submitted to higher headquarters on FY 60.0 & M program. Unofficial information indicates that headquarters SAC is questioning the validity of this requirement and that they are withholding action at this time. The base considers this project essential and will resubmit during October 1960

H. CONLEY
Lt Colonel, USAF
Deputy Base Commander
for Civil Engineering

PART VIII COMPTROLLER

SECTION A General Analysis

1. TDY Funds

a. The original ABA for Base TDY funds (Military and Civilians) amounted to \$75,000. As of 30 September 1960, \$47,840 had been obligated. Thir represents 63.8% of the ABA. If this rate continues, and there is certainly no reason to expect it to slacken as demands for briefings on Category III Testing by higher headquarters are increasing, the original ABA will be expended prior to the end of November. This ABA is for the entire base including the 7th Bomb Wing.

b. The first revision to the FY 1961 Financial Plan was submitted to higher headquarters 8 September 1960. The additional TDY funds requested amounted to \$111,800 which would result in a total ABA of \$186,800 for FY 1961. Of this \$186,800 it is estimated that the 43d Bomb Wing will expend \$108,700 or 58%. This is a very conservative estimate in that numerous unplanned higher headquarters directed trips have occurred during the period between submission of the Financial Plan Revision and the end of this month. The establishment of Contractor - Air Force panels designed to resolve various weapon systems and associated problems after initial revision of FY 1961 Financial Plan has increased requirements also. During Category III Testing, it has become apparent that anticipating actual TDY fund requirements is most difficult as there is no precedence and the overwhelming majority of TDY requirements are generated by organizations external to 43d Bomb Wing control.

2. Base Non-Tactical Radio Systems

a. The original ABA for Base Non-Tactical Radio Systems totalled \$28,900. This was \$3,600 short of requirements. The first revision to the FY 1961 Financial Plan Part II requirements amounted to \$11,494 which resulted in a net increased requirement of \$15,494. This amount is still short \$2,479 in meeting the minimum maintenance communications prescribed as a result of a meeting held a Headquarters SAC, 11 February 1960. These amounts are for the entire base.

b. Recent approval of \$1,000 for immediately required A and B net mobile radios has temporarily satisfied needs of the 43d Bomb Wing. No funds were made available for the C net yet, but these requirements were included in the revised Financial Plan.

VIII-1

SECTION B Recommended Action

It is recommended that the entire amounts requested in the first revision to the FY 1361 Financial Plan for 02122 and 04110 funds be approved.

J. L. HOOD Lt Colonel, USAF Director of Comptroller

DISTRIBUTION			COPY NO.
Hq USAF, Dir of Research & Development			
DCS/Development, Washington 25, D.C.	Attn:	AFDRD-SA	1,2
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		AFMEP-AC	4,5
CINSAC, Offutt AFB, Nebraska	Attn:	DORQ	6,7
		DM-3	8
		DM-4	9,10
		DM-4A	11
		DM-4D	12
		DM-6	13
		DPLC DOTPS	14
		DOTPS	15
Comdr, ARDC, Andrews AFB, Washington			
25, D.C.	Attn:	RDR	16,17
		RDRO	18-20
		RDM	21
Comdr, AMC, Wright-Patterson AFB, Ohio	Attn:	ves	22
outer, raid, milght-raddorson mib, onto	AD CIT.	MCM	23
		LMSB	24
Comdr, 2AF, Barksdale AFB, La.	Attn:	DPLM	25
		DCRM	26
		DPLC	27
		DM2C	28-32
		DOTB .	33
		DPP	34-36
		DES D/GLDDDD	37
		D/SAFETY	38
Wright Air Development Center, ARDC			
Wright-Patterson AFB, Ohio	Attn:	WNZ	39
		WWZSE	40-47
		WWZSL	48,49
Comdr, WADD, Wright-Patterson AFB, Ohio	Attn:	WWOP	50,51
		WWRMO	52
		WWDS	53,54
		WWDDA	55
		WWRPP	56
		WWO	57
		WWGV	58
		WWDO	59
		WWDSS	60,61
		WWDSF	62-64
		WNDSE	65-68
		WWDSP	69-71

Comdr, SAAMA, Kelly AFB, Texas	Attn:	SALF	72-74
Comdr, WRAMA, Robbins AFB, Ga.	Attn:	WRFU	75-78
Comdr, OCAMA, Tinker AFB, Okla.			79
Comdr, AFFTC; Edwards AFB, Calif.	Attn:	FTF	80
Comdr, APGC, Eglin AFB, Fla.	Attn:	PGO PGS PGTF	81 82 83
Comdr, AFSWC, Kirtland AFB, N.M.	Attn:	SWWOB	84
Comdr, AFMDC, Holloman AFB, N.M.			85
Chief, B-52/KC-135 OES, Castle AFB, Calif			86
Comdr, 19th Air Div, Carswell AFB, Tex	Attn:	C ISO DM DO	87 88-91 92 93
Deputy Inspector General for Inspection, Norton AFB, Calif	Attn:	AFCDI	94
Comdr, 33rd Air Div, Oklahoma City AF Station, Oklahoma City, Okla.			95
Comdr, 3535 Navigator Training Wing, Mather AFB, Calif., Attn: Capt. C.C. Jacoby	Jr.		96
Comdr, 824th Combat Support Group Carswell AFB, Texas	Attn:	C BP	97 98
		BDCE	99
Comdr, 305th Bombardment Wing, Bunker Hill AFB, Ind.	Attn:	С	100
AF Plant Representative, AF Plant Nr 4, P.O. Box 371, Convair, Ft Worth, Tex	Attn:	SARF SARFE SARFF SARFP SARFS SARFQ	101 102 103 104 105 106
Convair, Attn: Mr. A.S. Witchell, Carswell AFB, Texas			107-146

CARSWELL AIR FORCE BASE, TEXAS PERSONNEL STRENGTH REPORT AS OF 30 SEPTEMBER 1960

ORGANIZATION	AUTI	HORIZED		ASS	IGNED		CIVII	TAN
	OFF	AMN	TOTAL	OFF	AMN	TOTAL	AUTH	ASGN
	-	- Mariana			10001	101110	200011	No.
HQ 19TH ADIV	12	11	23	14	10	24	2	2
USAF HOSP	123	262	385	111	248		1 1 1 1 1 1 1 1 1 1 1 1	2
824TH MED GRU	14	60	74			359	102	99
35 111 135 310	7.4	00	14	16	63	79		
SUB TOTAL	140	222	1.00		0.50			
SOD TOTAL	149	333	482	141	321	462	104	101
HQ 824TH CMBT SUPP GP	1.	10-					Al control	
824TH CMBT DEF SQ	65	495	560	56	427	483	76	80
28TH MUN MAIN SQ	5	217	222	4	199	203		
	6	118	124	8	91	99		
824TH FD SVS SQ	2	185	187	1	138	139		
824TH CIVIL ENGR SQ	3	278	281	4	256	260	125	123
824TH OPNS SQ	16	132	148	16	125	141	6	
824TH SUPPLY SQ .	6	203	209	5	201	206		5
824TH TRANS SQ	4	186	190	4	154		79	73 18
824TH ACFT SUPP SQ	4	175	179			158	19	18
,	-	1/2	1/9	2	163	165	1	1
SUB TOTAL	111	1000	27.00					
STD TOTAL	111	1989	2100	100	1754	1854	306	300
HQ 7TH BOM WG (H)	1.0	100	100					
7TH A&E SQ	40	130	170	52	131	183	3	3
9TH BOM SQ	6	119	125	6	140	146		
	123	27	150	156	33	189		
7TH OMS	6	201	207	5	196	201		
'H FMS	6	257	263	5	293	299	7	6
				_		~,,	,	0
SUB TOTAL	181	734	915	225	793	1018	10	0
				==2	100	1010	10	9
HQ 43RD BOM WG (M)	85	222	307	86	187	273	-	
63RD BOM SQ	60	3	63	25	101	26	5	5
64TH BOM SQ	60	3	63	1	1			
65TH BOM SQ	67	49	116	58		2		
403RD BOM SQ	0	1	1		44	102	3	3
43RD A&E SQ				0	1	1		
43RD OMS	9	342	351	8	370	378		
	9	364	373	8	323	331		
43RD FMS	8	419	427	6	408	414	6	3
CUD #00.5								
SUB TOTAL	298	1403	1701	192	1335	1527	14	11
							-	
2048TH AACS	25	366	391	26	313	339	3	2
1ST RBS GP	18	55	73	19	74	- 93	3	3
10TH RBS SQ	6	43	49	6	38	44	ō	ō
26TH WEATHER	13	25	38	12	22	34		
DET 1108 OSI	3	2	-				2	2
415TH FTD	3	64	67	5	3	8	1	1
6592nd TEST SQ	26	30	56	2	72	74		
·)/ 1101 04	20	20	56	14	21	35	3	3
SUB TOTAL	O.	-0-	/00	-				
OUD TOTAL	94	585	679	84	543	627	13	13
CARCUELL AND BORAL	0						_	-
CARSWELL AFB TOTAL	833	5044	5877	242	4746	5488	447	434
								-

THIS REPORT IS BASED ON AUTHORIZATIONS REPLECTED ON UND EFFECTIVE 1 JULY 1960.

HEADQUARTERS 19TH AIR DIVISION UNITED STATES AIR FORCE CARSWELL AIR FORCE BASE, TEXAS



REPLY TO DORM

SUBJECT: Analysis of SAC Monagement Control System Date, ROS: SAC-TOS(29D-1)

(Part I)

TO: 2AF (DCRM) 2AF (IG)

September record for Darewell Air Force Park is submitted as At chemente in upper or a k 1 2AF supplement 1 to SACR 170-4 dated 6 May 1960

FOR THE COMMINGER

Joseph W. Deckinson Jr. KERN 2/2+ Jr.

Chief Statistics Services District

7 Ata Parantel
7. Material
7. Material
7. Civil Englasering
8. Seption
8. Comparison
9. Comparison
9. Comparison

Stratel

MONTHLY ANALYSIS OF SAC NANACEMENT CONTROL SYSTEM DATA (PART 1)
HOS SAC+***5 (2ND+1)

Period Covered September 1960

624TH COMBAT SUPPORT GROUP (SAC), CARSWELL AFB, FT WORTH, TEXAS

PERSONNEL

- Problem Item: Officer MIRS, Percent of Required 82%
 Director of Personnel Lt Colonel Enmett L. Brasseux
- 2. Cause and Corrective Action
 - 'a Percent of Ben Lea
 - (1) Shortage of Officers as indicated believe

Voit	Auri	Asgd	IPS	& Rega	% Asgd
19th AD	.2	12	. 9	75	75
7th BW	_8	223	75	97	97
43a BW	298	192	.84	62	96
824 h CSC	111	101	91	82	90
824th Med Gp	13.	.24	108	79	87
CAFB Totals	739	652	605	82	93

- (2) Major shortages which continue to exist are:
 - (a) 43d Bomb Wing

AFSC.	Descrip	Nr Short
1235B	Pilot B-58	43
:525B	Nay-Bomb ,	29
1575A	Elect Warfare	25
4344	Aoft Maint Officer	4
2726	Research & Development	
	Administrator	2

Headquarters SAC is programming input of crew personnel based upon the assignment of B-58 alreraft to the 43d Bumb Wing. Most of the remaining shortages in the 43d Bumb Wing have either been filled (assigned pending EDCSA) or have been programmed in by Headquarters SAC.

atch 1

MONTHLY ANALYSIS OF SAC MANAFEMENT CONTROL SYSTEM DATA (PART 1)

RCS SAC -* 35 2ND

Part of Colered September 1960

824TH COMBAT SUPPORT GROUP ISAC , CARSMELL ARE, FT WORTH, TEXAS

PERSONNEL

(b) 824th Compat Support Group:

AFE	Description	Nr Shore
7124	Personnel	5
7024	Admiristrative	4
3034	Communications	

Higher headquarters is sware of these shortages and is programming inputs as they become available.

(c) 824th Meaics, Group,

AFSC	<u> </u>	Nr Short
9326	Medical Officer - General	2
9486	Orthopedic Surgeon	4
9745	AF Nurse	3
9754	Nurse - General	7
9826	Denia Officer - General	3

Higher headquarters is aware of the shortages and as personnel are made available they are assigned to unity based on overall command manning.

3. Additional Reputing Date

AESC .	ALTH	ASCO	O/ER	SHORT
0036	. 4	7	3	
0046	2	3	1	
0056	2			1
1235C	53	68	15	
1235D	64	2.		43
1416	32	3.5	1	
1435A		0		
15142	11	9		2
15258	107	92		15
15.75A	85	70		15
1584	8	7	,	1

MONTHLY ANALYSIS OF GAT MANAGEMENT CONTROL SYSTEM DATA (PART 1) ROS: SAC-T35 (2ND-1)

Period Covered September 1960

824TH COMBAT SUPPORT GROUP (SAC), CARSWELL AFB, FT WORTH, TEXAS

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								E	
	F.	Kid	* 3	•	•	924	3.74	160	A

AFSC	AUJH	ASGD	OVER	SHORT
2726	6	3		3
2816	3	4	,	,
2826	3 6	4 7	1 1	
2836	3		1	
3034	4	3		1
3216	6	3 7	1	+
3275A	2	3 2	1 1 1	
3275B		2	1	
4316	13	4	1	
4344	24	10		5
4724		2	1	-
6016	2	1		1
6424	12	4	2	
6624	2	7	-	,
6724	3	2		1
6896	2 12 2 3 5 15 15 15 3 7	14 - 19 2 1 4 1 2 2 2 12		
7024	15	12		1 3 1 5 1 2
7224	1	0		1
7324	15	10		
7524	3	2		1
7724	7	2 5 2		2
8044	3	2		
8095	4	3		1 1
8816	3	3 2		1
9025	3 9	. 11	2	
9046	1	. 0		1
9056	1	0		1
9124	1	2	1	
9156E	1	0		1
9166	2	4	2	
9226	1	2	1.	
9236	3	1 5	2	
9326	1 3 8	6		2
9336		0		
9356	5 3 2	4		1
9366	3	2		. 1
9386	3	4	1	