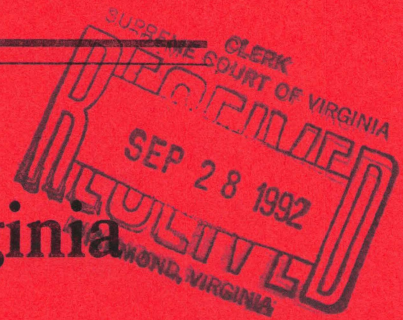


245 VA 291

IN THE
Supreme Court of Virginia
AT RICHMOND



RECORD NO. 920639

TECHDYN SYSTEMS CORPORATION,

Appellant,

v.

WHITTAKER CORPORATION,

Appellee.

EXHIBIT VOLUME VIII

Garry R. Boehlert
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Refcol
10/22



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS ELECTRONIC SYSTEMS DIVISION (AFSC)
HANSCOM AIR FORCE BASE, MASSACHUSETTS 01731-5000

10/27/86

22 OCT 1986

REPLY TO
ATTN OF:

PKS-3

SUBJECT:

Contract #F19628-85-C-0079

TO:

TechDyn System Corporation
Attn: Mr William C. Hise
6564 Loisdale Court
Suite 600
Springfield, VA 22150

1. Reference: 3 Oct 86 Software Quality Assurance Meeting at 4C, Torrance, CA.
2. During referenced meeting, the Government reviewed 4C's software quality assurance procedures. We understand the methods used by 4C in the quality assurance and configuration control functional areas. We are seriously concerned with the lack of quality control in 4C's engineering branch. It is our understanding that new capabilities being developed are only controlled by the engineering branch. The new capabilities are then brought under configuration control in the Master Data Base and reseeded into the Project Data Base. Not until the Project Data Base is reseeded does an independent test organization evaluate the new capability. Without independent evaluation at an intermediate milestone, the new capabilities could cause serious problems and delays to the Project Data Base.
3. The MITRE software metrics were reviewed at the meeting. The specific metrics discussed were sizing, manhours, memory utilization, timing utilization, development progress (design, code and integration), test schedules and System Trouble Reports (STRs). The Government strongly recommends these methods be implemented in order to evaluate the current software status. Other ESD programs, in the same basic program phase, have successfully used these metrics. Contractor format of these metrics is acceptable and encouraged to keep down program management costs. If you choose to implement these software metrics, request you send us copies of your reports in accordance with CDRL 304/504 the Data Accession List/Internal Data.
4. If you have any questions, don't hesitate to call Capt C.E. Marshall at (617) 271-5447.
5. Performance of these tasks is considered to be within the scope of the existing contract requirements. If you disagree, take no action, except to notify the Contracting Officer in writing within seven (7) days of receipt of this letter.

STEPHEN L. SMITH

Contracting Officer
Directorate of Strategic
Systems Contracts
Deputy for Contracting

2741



Summary of Damages
Related to the Deprivation
of the Alaska and PacAF Options

Lost Profits	\$329,429
General and Administrative Expenses	230,540
Overhead	49,033

	\$609,002

2742



SUMMARY OF DAMAGES

DESCRIPTION -----	CLAIM AMOUNT -----
PDFA DAMAGES	\$3,240,611
RCE DAMAGES	569,031
ALASKA AND PACAF DAMAGES	609,002
LOST PROFITS	2,314,338

**PLAINTIFF'S
EXHIBIT**

950

2743

SUMMARY OF WHITTAKER-CAUSED PDFA DAMAGES

DESCRIPTION	CLAIM AMOUNT (BEFORE INTEREST)	INTEREST	CLAIM AMOUNT (INCLUDING INTEREST)
-----	-----	-----	-----
DELAY	\$2,570,524 (Exh. 952)	\$349,224 (Exh. 979)	\$2,919,748
EXCESS OVERHEAD	262,409 (Exh. 968)	0	262,409
RELOCATION OF TEST BEDS	48,742 (Exh. 973)	7,856 (Exh. 980)	56,598
REPLACEMENT OF KEYBOARD AND PRINTER	1,687 (Exh. 977)	169 (Exh. 981)	1,856
-----	-----	-----	-----
TOTAL	\$2,883,362 =====	\$357,249 =====	\$3,240,611 =====

PLAINTIFF'S
EXHIBIT

CALCULATION OF DELAY DAMAGES
ATTRIBUTABLE TO WHITTAKER

DESCRIPTION -----	CLAIM AMOUNT -----
DELAY DAMAGES PER DAY	\$2,068 (Exhibit 953)
DELAY DAYS ATTRIBUTABLE TO WHITTAKER	x 1,243 -----
TOTAL	\$2,570,524 =====

2745



CALCULATION OF DELAY DAMAGES PER DAY

DESCRIPTION	AMOUNT
RECORDED TIME-RELATED COSTS, 9/85 TO 5/91	\$5,153,759 (Exh. 954)
LESS: TIME-RELATED COSTS IN ORIGINAL CONTRACT PERIOD	1,352,617
TIME-RELATED COSTS IN DELAY PERIOD COMPENSATED BY AIR FORCE	733,079
TIME-RELATED COSTS IN OTHER CONTRACT MODIFICATIONS	579,923 (Exh. 966)
TIME-RELATED COSTS IN REMOTE CONTROL ELEMENT REPROCUREMENT	172,987 (Exh. 967)
TIME-RELATED COSTS ATTRIBUTABLE TO WHITTAKER DELAYS	2,315,153
DIVIDED BY: NUMBER OF DAYS IN DELAY PERIOD	1,243
DELAY COST PER DAY	1,863
PROFIT AT 11%	205
DELAY DAMAGES PER DAY	\$2,068 per day

2746



SUMMARY OF RECORDED TIME-RELATED
COSTS, 9/85 TO 8/90

DESCRIPTION -----	AMOUNT -----	
LABOR:		
PROGRAM MANAGEMENT	\$296,829	(EXHIBIT 955)
SYSTEMS ENGINEERING & TESTING	392,759	(EXHIBIT 956)
LOGISTICS	401,035	(EXHIBIT 957)
FIELD MAINTENANCE	180,700	(EXHIBIT 958)
CONTRACT MANAGEMENT	131,778	(EXHIBIT 959)
COST ANALYSIS	80,890	(EXHIBIT 960)
SECRETARIAL	129,378	(EXHIBIT 961)

TOTAL LABOR	1,613,369	
ON-SITE OVERHEAD	2,086,086	
TRAVEL	631,562	(EXHIBIT 962)
CONSULTANTS	301,220	(EXHIBIT 963)
CONTRACT LABOR	84,746	(EXHIBIT 964)
OTHER DIRECT COSTS	44,435	(EXHIBIT 965)

TOTAL DIRECT COSTS	4,761,418	
GENERAL & ADMINISTRATIVE	392,341	

TOTAL	\$5,153,759	
	=====	

2747



PROGRAM .MENT DIRECT LABOR

DATE	ELLIS, D.		JOHNSON, A.	
	HRS.	\$	HRS.	\$
15-Sep-85				
29-Sep-85			35.00	1,101.80
13-Oct-85			45.50	1,432.34
27-Oct-85			74.50	2,345.26
10-Nov-85			53.00	1,668.44
24-Nov-85			61.50	1,936.02
08-Dec-85			51.00	1,605.48
22-Dec-85			52.00	1,636.96
05-Jan-86			50.50	1,589.74
19-Jan-86			57.00	1,794.36
02-Feb-86			52.00	1,636.96
16-Feb-86			68.00	2,140.64
02-Mar-86			74.00	2,329.52
16-Mar-86			66.00	2,077.68
30-Mar-86			46.00	1,448.08
13-Apr-86			67.00	2,109.16
27-Apr-86			44.50	1,400.86
11-May-86			71.00	2,235.08
25-May-86			67.50	2,124.90
08-Jun-86			54.00	1,699.92
22-Jun-86			62.00	1,951.76
06-Jul-86			59.50	1,873.06
20-Jul-86			93.50	2,943.38
03-Aug-86			70.50	2,219.34
17-Aug-86			85.00	2,675.80
31-Aug-86			62.50	1,967.50
14-Sep-86			55.50	1,747.14
28-Sep-86			82.00	2,581.36
12-Oct-86			58.00	2,725.47
26-Oct-86			59.50	1,970.48
09-Nov-86			68.50	2,263.93
23-Nov-86			90.50	2,991.03
07-Dec-86			64.00	2,115.21
21-Dec-86			70.50	2,330.03
04-Jan-87			43.00	1,421.15
18-Jan-87			80.00	2,644.01
01-Feb-87			39.50	1,305.49
15-Feb-87			68.50	2,263.94
01-Mar-87			45.00	1,487.25
15-Mar-87			69.50	2,296.99
29-Mar-87			64.50	2,131.73
12-Apr-87			64.00	2,115.22
26-Apr-87			82.50	2,726.63
10-May-87			95.00	3,139.76
24-May-87			69.50	2,296.98
07-Jun-87			81.00	2,677.06
21-Jun-87			66.50	2,197.83
05-Jul-87			172.00	5,968.40
19-Jul-87			91.00	3,157.70
02-Aug-87			91.50	3,175.05
16-Aug-87			73.50	2,550.35
30-Aug-87			56.50	1,960.55

2748

PLAINTIFF'S
EXHIBIT
955

DATE	ELLIS, D.		JOHNSON, A.	
	HRS.	\$	HRS.	\$
13-Sep-87			72.00	2,498.40
27-Sep-87			95.00	3,296.50
11-Oct-87			51.00	1,769.70
25-Oct-87			66.00	2,290.20
08-Nov-87			75.00	2,602.50
22-Nov-87			64.00	2,220.80
06-Dec-87			75.00	2,602.50
20-Dec-87			91.00	3,157.70
03-Jan-88			40.00	1,388.00
17-Jan-88			82.00	2,845.40
31-Jan-88			69.00	2,394.30
14-Feb-88			58.50	2,029.95
28-Feb-88			65.50	2,272.85
13-Mar-88			28.50	988.95
27-Mar-88	88.00	1,866.48		
10-Apr-88	96.00	2,036.16		
24-Apr-88	118.50	2,513.39		
08-May-88	109.00	2,311.89		
22-May-88	80.00	1,696.80		
05-Jun-88	63.00	1,336.23		
19-Jun-88	116.50	2,470.97		
03-Jul-88	87.00	1,845.27		
17-Jul-88	82.00	1,739.22		
31-Jul-88	88.50	1,877.09		
14-Aug-88	84.00	1,781.64		
28-Aug-88	45.50	965.06		
11-Sep-88	84.00	1,718.02		
25-Sep-88	108.50	2,301.29		
09-Oct-88	87.50	3,703.97		
23-Oct-88	87.00	2,091.48		
06-Nov-88	77.00	1,851.08		
20-Nov-88	80.00	1,923.20		
04-Dec-88	58.00	1,394.32		
18-Dec-88	87.50	2,103.50		
01-Jan-89	72.00	1,730.88		
15-Jan-89	77.00	1,851.08		
29-Jan-89	66.00	1,586.64		
12-Feb-89	54.50	1,310.18		
26-Feb-89	76.00	1,827.04		
12-Mar-89	98.00	2,355.92		
26-Mar-89	85.00	2,043.40		
09-Apr-89	79.50	1,911.18		
23-Apr-89	80.00	1,923.20		
07-May-89	65.00	1,562.60		
21-May-89	68.00	1,634.72		
04-Jun-89	71.00	1,706.84		
18-Jun-89	79.00	1,899.16		
02-Jul-89	74.00	1,778.96		
16-Jul-89	66.50	1,598.66		
30-Jul-89	83.00	1,995.32		
13-Aug-89	39.00	937.56		
27-Aug-89	81.50	1,959.26		

PROGRAM ENT DIRECT LABOR

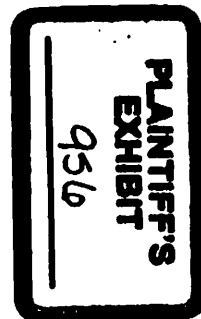
	ELLIS, D.		JOHNSON, A.	
DATE	HRS.	\$	HRS.	\$
10-Sep-89	66.00	1,586.64		
24-Sep-89	72.00	1,730.88		
08-Oct-89	76.00	1,827.04		
22-Oct-89	99.00	2,379.96		
05-Nov-89	72.00	1,730.88		
19-Nov-89	84.50	2,031.38		
03-Dec-89	58.00	1,394.32		
17-Dec-89	82.00	1,971.29		
31-Dec-89	80.00	1,923.20		
14-Jan-90	69.00	1,658.76		
28-Jan-90	72.00	1,730.88		
11-Feb-90	96.00	2,307.84		
25-Feb-90	72.00	1,730.88		
11-Mar-90	80.00	1,923.20		
25-Mar-90	92.00	2,211.68		
08-Apr-90	66.00	1,586.64		
22-Apr-90	80.00	1,923.20		
06-May-90	44.50	1,069.78		
20-May-90	74.00	1,778.96		
03-Jun-90	63.00	1,514.52		
17-Jun-90	83.00	1,995.32		
01-Jul-90	69.00	1,658.76		
15-Jul-90	60.00	1,442.40		
29-Jul-90	58.00	1,394.32		
12-Aug-90	98.50	2,367.94		
26-Aug-90	81.00	1,947.24		
09-Sep-90	72.50	1,742.90		
23-Sep-90	88.00	2,115.52		
07-Oct-90	94.50	2,271.78		
21-Oct-90	82.50	1,983.30		
04-Nov-90	79.50	1,911.18		
18-Nov-90	73.50	1,766.94		
02-Dec-90	64.00	1,538.56		
16-Dec-90	69.00	1,658.76		
30-Dec-90	68.00	1,634.72		
13-Jan-91	70.00	1,682.80		
27-Jan-91	71.50	1,718.86		
10-Feb-91	82.00	1,971.28		
24-Feb-91	72.00	1,730.88		
10-Mar-91	79.00	1,899.16		
24-Mar-91	102.00	2,452.08		
07-Apr-91	80.50	1,935.22		
21-Apr-91	74.00	1,778.96		
05-May-91	36.50	877.46		
19-May-91	69.00	1,658.76		
TOTALS	6,418.00	152,286.69	4,357.00	144,542.53

TOTAL PROGRAM MANAGEMENT
DIRECT LABOR DOLLARS

296,829

SYSTEMS ENGINEERING & TESTING DIRECT LABOR

	THORNTON, R.		SOLEBELLO		ROSE, R.		HELWIG, G.		BEHR, A.		ELLIS, D.	
DATE	MRS.	\$	MRS.	\$	MRS.	\$	MRS.	\$	MRS.	\$	MRS.	\$
15-Sep-85							56.00	1,036.00	72.00	1,332.72		
29-Sep-85							80.00	1,480.00	80.00	1,480.80		
13-Oct-85							78.00	1,443.00	72.00	1,332.72		
27-Oct-85							77.00	1,424.50				
10-Nov-85							81.00	1,498.50	182.00	3,368.82		
24-Nov-85							96.00	1,776.00	84.00	1,554.84		
08-Dec-85							75.00	1,387.50	56.00	1,036.56		
22-Dec-85			59.00	1,357.00			64.00	1,184.00	95.00	1,758.45		
05-Jan-86			44.00	1,012.00			64.00	1,184.00	66.00	1,221.66		
19-Jan-86			52.00	1,196.00			72.00	1,332.00	77.00	1,425.27		
02-Feb-86			28.00	644.00			72.00	1,332.00	72.00	1,332.72		
16-Feb-86			56.00	276.00			38.00	703.00	80.00	1,480.80		
02-Mar-86			64.00	1,472.00			71.00	1,313.50	72.00	1,332.72		
16-Mar-86			68.00	1,564.00			72.00	1,332.00	64.00	1,184.64		
30-Mar-86			68.00	1,564.00			80.00	1,480.00	80.00	1,480.80		
13-Apr-86			80.00	1,840.00			72.00	1,332.00	80.00	1,480.80		
27-Apr-86			80.00	1,840.00			70.00	1,295.00	80.00	1,480.80		
11-May-86			72.00	1,656.00			76.00	1,406.00	84.00	1,554.84		
25-May-86			54.00	1,242.00			76.00	1,406.00	92.00	1,702.92		
08-Jun-86			47.00	1,081.00			62.00	1,147.00	72.00	1,332.72		
22-Jun-86			24.00	552.00			47.00	869.50	72.00	1,332.72		
06-Jul-86			44.00	1,012.00					79.00	1,462.29		
20-Jul-86			32.00	736.00					80.00	1,480.80		
03-Aug-86			40.00	920.00					99.00	1,832.49		
17-Aug-86			38.00	874.00						1,480.80		
31-Aug-86			26.00	598.00								
14-Sep-86			20.00	460.00								
28-Sep-86			89.00	2,047.00								
12-Oct-86			57.00	1,995.00								
26-Oct-86			23.00	563.96								
09-Nov-86			18.00	441.36								
23-Nov-86			14.00	215.64								
07-Dec-86			13.00	318.76								
21-Dec-86			2.00	49.04								
04-Jan-87	32.00	646.40										
18-Jan-87	80.00	1,616.00										
01-Feb-87	64.00	1,292.80										
15-Feb-87	78.00	1,575.60										
01-Mar-87	72.00	1,454.40										
15-Mar-87	80.00	1,616.00										
29-Mar-87	84.00	1,696.80										
12-Apr-87	77.00	1,555.40										
26-Apr-87	85.00	1,717.00										
10-May-87	82.00	1,656.40										
24-May-87	82.00	1,656.40										
07-Jun-87	76.00	1,535.20										
21-Jun-87	95.00	1,919.00										
05-Jul-87	148.00	3,229.36										
19-Jul-87	74.00	1,614.68										
02-Aug-87	79.00	1,723.78										
16-Aug-87	78.00	1,701.96										
30-Aug-87	81.00	1,767.42										
											102.00	2,060.40
											40.00	808.00
											80.00	1,616.00
											76.00	1,535.20
											83.00	1,700.84



SYSTEMS ENGINEERING & TESTING DIRECT LABOR

DATE	THORNTON, R.		SOLEBELLO		ROSE, R.		HELMIG, G.		BEHR, A.		ELLIS, D.	
	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
13-Sep-87	50.00	1,091.00									74.00	1,569.54
27-Sep-87	95.00	2,072.90									90.00	1,908.90
11-Oct-87	76.00	1,658.32									68.00	1,442.28
25-Oct-87	91.00	1,985.62									92.00	1,951.32
08-Nov-87	87.00	1,898.34									84.00	1,781.64
22-Nov-87	78.00	1,701.96									107.00	2,269.47
06-Dec-87	49.00	1,069.18									96.00	2,036.16
20-Dec-87	107.00	2,334.74									80.00	1,696.80
03-Jan-88	60.00	1,309.20									56.00	1,187.76
17-Jan-88	77.00	1,680.14									76.00	1,611.96
31-Jan-88	72.00	1,571.04									72.00	1,527.12
14-Feb-88	77.00	1,680.14									72.00	1,527.12
28-Feb-88	87.00	1,898.34									93.00	1,972.53
13-Mar-88	75.00	1,636.50									98.00	2,078.59
27-Mar-88	60.00	1,309.20										
10-Apr-88	84.00	1,832.88										
24-Apr-88	108.00	2,356.56			80.00	1,596.00						
08-May-88	96.00	2,094.72			104.00	2,074.80						
22-May-88	79.00	1,723.78			80.00	1,596.00						
05-Jun-88	63.00	1,374.66			106.00	2,114.70						
19-Jun-88	78.00	1,701.96			72.00	1,436.40						
03-Jul-88	79.00	1,791.19			80.00	1,596.00						
17-Jul-88	42.00	961.38			72.00	1,436.40						
31-Jul-88	90.00	2,060.10			80.50	1,605.98						
14-Aug-88	65.00	1,487.85			42.00	837.90						
28-Aug-88	37.00	846.93			101.50	2,024.93						
11-Sep-88					72.00	1,436.40						
25-Sep-88					84.00	1,675.80						
09-Oct-88					80.00	1,596.00						
23-Oct-88	58.00	1,327.62			209.00	4,169.55						
06-Nov-88	81.00	1,854.09			80.00	1,596.00						
20-Nov-88	64.00	1,464.96			60.00	1,197.00						
04-Dec-88	62.00	1,419.18			65.50	1,306.73						
18-Dec-88	81.00	1,854.09			80.00	1,596.00						
01-Jan-89	75.00	1,716.93			74.50	1,486.28						
15-Jan-89	72.00	1,648.08			68.00	1,356.70						
29-Jan-89	67.00	1,533.63			56.00	1,117.20						
12-Feb-89	84.00	1,922.77			40.00	798.00						
26-Feb-89	72.00	1,648.08			50.00	997.50						
12-Mar-89	80.00	1,831.20			80.00	1,596.00						
26-Mar-89	75.00	1,716.75			89.50	1,785.53						
09-Apr-89	30.00	869.82			72.00	1,436.40						
23-Apr-89	80.00	1,831.20			81.00	1,646.75						
07-May-89	84.00	1,922.76			56.00	1,139.60						
21-May-89	77.00	1,762.53			87.00	1,770.45						
04-Jun-89	71.00	1,625.19			76.00	1,546.60						
18-Jun-89	78.00	1,785.42			80.00	1,628.00						
02-Jul-89	77.00	1,762.53			92.00	1,872.20						
16-Jul-89	40.00	915.60			72.00	1,465.20						
30-Jul-89	77.00	1,762.53			64.00	1,302.40						
13-Aug-89	87.00	1,991.43			80.00	1,628.00						
27-Aug-89	80.00	1,831.20			91.00	1,851.85						

SYSTEMS ENGINEERING & TESTING DIRECT LABOR

	THORNTON, R.		SOLEBELLO		ROSE, R.		NELWIG, G.		BEHR, A.		ELLIS, D.	
DATE	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
10-Sep-89	37.00	846.93			62.00	1,261.70						
24-Sep-89	40.00	915.60			80.00	1,628.00						
08-Oct-89	76.00	1,739.64			101.00	2,055.35						
22-Oct-89	68.00	1,556.52			80.00	1,628.00						
05-Nov-89	77.00	1,769.89			77.00	1,566.95						
19-Nov-89	60.00	1,428.60			40.00	814.00						
03-Dec-89	64.00	1,523.84			51.00	1,037.85						
17-Dec-89	77.00	1,833.37			80.50	1,638.18						
31-Dec-89	80.00	1,904.80			80.00	1,628.00						
14-Jan-90	74.00	1,761.94			69.00	1,404.15						
28-Jan-90	46.00	1,095.26			70.00	1,424.50						
11-Feb-90	90.00	2,142.90			42.00	854.70						
25-Feb-90	73.00	1,738.13			48.00	976.80						
11-Mar-90	81.00	1,928.61			83.00	1,689.05						
25-Mar-90	89.00	2,119.09			80.00	1,628.00						
08-Apr-90	74.00	1,761.94			80.00	1,628.00						
22-Apr-90	40.00	952.40			80.00	1,628.00						
06-May-90	79.00	1,880.99			53.50	1,088.73						
20-May-90	79.00	1,880.99			80.00	1,628.00						
03-Jun-90	68.00	1,419.08			72.00	1,465.20						
17-Jun-90	80.00	1,904.80			70.00	1,424.50						
01-Jul-90	80.00	1,904.80			68.00	1,383.80						
15-Jul-90	40.00	952.40			69.00	1,404.15						
29-Jul-90	78.00	1,857.18			74.00	1,505.90						
12-Aug-90	73.00	1,738.13			80.00	1,628.00						
26-Aug-90	16.00	380.96			80.00	1,628.00						
09-Sep-90					72.00	1,465.20						
23-Sep-90					96.00	1,953.60						
07-Oct-90	26.00	631.28										
21-Oct-90	54.00	1,311.12										
04-Nov-90	54.00	1,311.12										
18-Nov-90	43.00	1,044.04										
02-Dec-90	15.00	364.20										
16-Dec-90	49.00	1,189.72										
30-Dec-90	32.00	776.96										
13-Jan-91	44.00	1,068.32										
27-Jan-91	38.00	922.64										
10-Feb-91	44.00	1,068.32										
24-Feb-91	48.00	1,165.44										
10-Mar-91	52.00	1,262.56										
24-Mar-91	96.00	2,330.88										
07-Apr-91	38.00	922.64										
21-Apr-91	27.00	655.56										
05-May-91	54.00	1,311.12										
19-May-91	48.00	1,165.44										
TOTALS	7,562.00	170,740.97	1,212.00	27,526.76	4,875.50	98,383.56	1,479.00	27,361.50	1,890.00	36,464.70	1,539.00	32,281.63

TOTAL SYSTEMS ENGINEERING & TESTING DIRECT LABOR DOLLARS 392,759

LOGISTICS & LABOR

DATE	KRUNEL, R.		BELL, E.		JONES, E.		GALLAGHER	
	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
15-Sep-85								
29-Sep-85							20.00	379.80
13-Oct-85							80.00	1,519.20
27-Oct-85							80.00	1,519.20
10-Nov-85							80.00	1,519.20
24-Nov-85							100.00	1,899.00
08-Dec-85							74.00	1,405.26
22-Dec-85							92.00	1,747.08
05-Jan-86							51.00	968.49
19-Jan-86							68.00	1,291.32
02-Feb-86							4.00	75.96
16-Feb-86								
02-Mar-86	2.00	37.24						
16-Mar-86	34.00	633.08			72.00	1,481.76		
30-Mar-86	49.00	943.92						
13-Apr-86	64.00	1,216.00			78.00	1,717.56		
27-Apr-86	58.00	1,102.00			16.00	352.32		
11-May-86	85.00	1,615.00						
25-May-86	100.00	1,900.00						
08-Jun-86	74.00	1,406.00						
22-Jun-86	104.00	1,976.00						
06-Jul-86	91.00	1,729.00						
20-Jul-86	82.00	1,558.00						
03-Aug-86	80.00	1,520.00						
17-Aug-86	82.00	1,558.00						
31-Aug-86	85.00	1,615.00						
14-Sep-86	62.00	1,178.00						
28-Sep-86	130.00	2,470.00	104.00	2,000.96				
12-Oct-86	44.00	836.00	107.00	2,058.68	40.00	808.00		
26-Oct-86			103.50	1,991.34	80.00	1,616.00		
09-Nov-86			92.00	1,770.08	80.00	1,616.00		
23-Nov-86			104.00	2,000.96	80.00	1,616.00		
07-Dec-86			95.00	1,827.80	64.00	1,292.80		
21-Dec-86			99.50	1,914.38	80.00	1,616.00		
04-Jan-87			76.00	1,462.24	40.00	807.80		
18-Jan-87			87.50	1,683.50	64.00	1,292.80		
01-Feb-87			64.00	1,231.36	64.00	1,292.80		
15-Feb-87			77.00	1,481.48	80.00	1,616.00		
01-Mar-87			69.50	1,337.18	72.00	1,454.40		
15-Mar-87			80.00	1,539.20	77.00	1,555.40		
29-Mar-87			80.00	1,539.20	80.00	1,616.00		
12-Apr-87			80.00	1,539.20	80.00	1,616.00		
26-Apr-87			72.00	1,385.28	88.00	1,777.60		
10-May-87			80.00	1,539.20	76.00	1,535.20		
24-May-87			80.00	1,539.20	80.00	1,616.00		
07-Jun-87			72.00	1,385.28	72.00	1,454.40		
21-Jun-87			80.00	1,539.20	80.00	1,616.00		
05-Jul-87			184.00	3,540.16	112.00	2,443.84		
19-Jul-87			84.00	1,616.16	80.00	1,745.60		
02-Aug-87			80.00	1,539.20	80.00	1,745.60		
16-Aug-87			80.00	1,539.10	77.00	1,680.14		
30-Aug-87			80.00	1,539.20	80.00	1,745.60		

EXHIBIT

2754

DATE	KRUNEL, R.		BELL, E.		JONES, E.		GALLAGHER	
	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
13-Sep-87			72.00	1,385.28	72.00	1,571.04		
27-Sep-87			93.00	1,870.92	68.00	1,483.76		
11-Oct-87			86.00	1,737.60	80.00	1,745.60		
25-Oct-87			46.50	939.30	68.00	1,483.76		
08-Nov-87			64.00	1,292.80	80.00	1,745.60		
22-Nov-87			91.00	1,838.20	71.00	1,549.22		
06-Dec-87			74.00	1,494.80	35.00	763.70		
20-Dec-87			121.00	2,444.20	92.00	2,007.44		
03-Jan-88			68.50	1,383.70	61.00	1,331.02		
17-Jan-88			80.00	1,616.00	75.00	1,636.50		
31-Jan-88			72.00	1,454.40	65.00	1,418.30		
14-Feb-88			74.50	1,504.90				
28-Feb-88			78.00	1,575.60	72.00	1,571.04		
13-Mar-88			107.50	2,171.10	78.00	1,701.96		
27-Mar-88			80.00	1,616.00	80.00	1,745.60		
10-Apr-88			72.00	1,454.40	76.00	1,658.32		
24-Apr-88			78.00	1,575.60	67.00	1,461.94		
08-May-88			89.00	1,797.80	80.00	1,745.60		
22-May-88			80.00	1,616.00	64.00	1,396.48		
05-Jun-88			85.00	1,717.00	69.00	1,505.58		
19-Jun-88			80.00	1,616.00	85.00	1,854.70		
03-Jul-88			80.00	1,616.00	46.00	1,035.82		
17-Jul-88			64.00	1,292.80	48.00	1,098.72		
31-Jul-88			95.00	1,919.00	85.00	1,945.65		
14-Aug-88			76.00	1,535.20	40.00	915.60		
28-Aug-88			94.50	1,908.90	56.00	1,281.84		
11-Sep-88			40.00	808.00	43.00	984.27		
25-Sep-88			82.50	1,666.50	14.00	320.46		
09-Oct-88			10.00	1,621.66				
23-Oct-88			74.50	1,553.33	75.00	1,716.75		
06-Nov-88			78.00	1,626.30	58.00	1,327.62		
20-Nov-88			73.00	1,522.05	50.00	1,144.50		
04-Dec-88			56.00	1,167.60	35.00	801.15		
18-Dec-88			80.00	1,668.00	53.00	1,213.17		
01-Jan-89			69.00	1,438.65	45.00	1,030.05		
15-Jan-89			69.00	1,438.65	51.00	1,167.39		
29-Jan-89			72.00	1,501.20	51.00	1,167.39		
12-Feb-89			80.00	1,668.00	62.00	1,419.18		
26-Feb-89			73.50	1,532.48	55.00	1,258.95		
12-Mar-89			105.50	2,199.68	30.00	686.70		
26-Mar-89			80.00	1,668.00	65.00	1,487.85		
09-Apr-89			72.00	1,501.20	76.00	1,739.64		
23-Apr-89			77.50	1,615.88	60.00	1,373.40		
07-May-89			75.00	1,563.75	37.00	846.93		
21-May-89			87.50	1,824.38	56.00	1,281.84		
04-Jun-89			64.00	1,334.40	53.00	1,213.17		
18-Jun-89			40.00	834.00	58.00	1,327.62		
02-Jul-89			80.00	1,668.00	61.00	1,396.29		
16-Jul-89			72.00	1,501.20	53.00	1,213.19		
30-Jul-89			80.00	1,668.00	52.00	1,190.28		
13-Aug-89			80.00	1,668.00	55.00	1,298.51		
27-Aug-89			80.00	1,668.00	44.00	1,047.64		

LOGISTICS & LABOR

DATE	KRUNEL, R.		BELL, E.		JONES, E.		GALLAGHER	
	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
10-Sep-89			64.00	1,334.40	55.00	1,309.55		
24-Sep-89			79.00	1,686.16	59.00	1,404.79		
08-Oct-89			76.00	1,647.68	52.00	1,238.12		
22-Oct-89			20.00	433.60	68.00	1,619.08		
05-Nov-89			64.00	1,387.52	53.00	1,261.93		
19-Nov-89			72.00	1,560.96	52.00	1,238.12		
03-Dec-89			64.00	1,387.52	55.00	1,309.55		
17-Dec-89			80.00	1,734.40	55.00	1,309.55		
31-Dec-89			80.00	1,734.40	62.00	1,476.22		
14-Jan-90			56.00	1,214.08	28.00	666.68		
28-Jan-90			72.00	1,560.96	56.00	1,333.36		
11-Feb-90			80.00	1,734.40	72.00	1,714.32		
25-Feb-90			64.00	1,387.52	48.00	1,142.88		
11-Mar-90			80.00	1,734.40	54.00	1,285.74		
25-Mar-90			80.00	1,734.40	60.00	1,428.60		
08-Apr-90			80.00	1,734.40	59.00	1,404.79		
22-Apr-90			72.00	1,560.96	35.00	833.35		
06-May-90			76.00	1,647.68	60.00	1,428.60		
20-May-90			56.00	1,214.08	56.00	1,333.36		
03-Jun-90			68.00	1,474.24	54.00	1,285.74		
17-Jun-90			73.00	1,582.64	85.00	2,023.85		
01-Jul-90			80.00	1,734.40	80.00	1,904.80		
15-Jul-90			25.00	542.00	50.00	1,190.50		
29-Jul-90			34.00	737.12	79.00	1,880.99		
12-Aug-90			25.50	552.84	54.00	1,285.74		
26-Aug-90			50.00	1,084.00	70.00	1,666.70		
09-Sep-90			162.00	3,512.16	51.00	1,214.31		
23-Sep-90			99.00	2,146.32	78.00	1,857.18		
07-Oct-90			103.75	2,249.30	54.00	1,285.74		
21-Oct-90			40.00	888.80	75.00	1,785.75		
04-Nov-90			77.00	1,710.94	61.00	1,452.41		
18-Nov-90			75.25	1,672.06	74.00	1,761.94		
02-Dec-90			61.00	1,355.42	37.00	880.97		
16-Dec-90			80.00	1,777.60	42.00	1,000.02		
30-Dec-90			68.00	1,510.96	53.00	1,261.93		
13-Jan-91			72.00	1,599.84	52.00	1,238.12		
27-Jan-91			70.50	1,566.51	48.00	1,142.88		
10-Feb-91			73.50	1,633.17	28.00	666.68		
24-Feb-91			88.00	1,955.36	50.00	1,190.50		
10-Mar-91			101.00	2,244.22	75.00	1,785.75		
24-Mar-91			111.50	2,477.53	58.00	1,380.98		
07-Apr-91			64.00	1,422.08	54.00	1,285.74		
21-Apr-91			82.00	1,822.04	58.00	1,380.98		
05-May-91			80.00	1,777.60	78.00	1,857.18		
19-May-91			69.00	1,533.18	48.00	1,142.88		
TOTALS	1,226.00	23,293.24	9,411.50	195,831.80	7,562.00	169,585.20	649.00	12,324.51

TOTAL LOGISTICS DIRECT LABOR DOLLARS

401,035

DATE	JOHNSON, E.		ALLEN		CARTER	
	HRS.	\$	HRS.	\$	HRS.	\$
15-Sep-85						
29-Sep-85						
13-Oct-85						
27-Oct-85						
10-Nov-85						
24-Nov-85						
08-Dec-85			36.00	540.00		
22-Dec-85			78.00	1,170.00		
05-Jan-86						
19-Jan-86			130.00	1,950.00		
02-Feb-86			136.00	2,040.00		
16-Feb-86						
02-Mar-86			80.00	1,200.00		
16-Mar-86			183.00	2,745.00		
30-Mar-86			87.00	1,305.00		
13-Apr-86			88.00	1,320.00		
27-Apr-86			80.00	1,200.00		
11-May-86			80.00	1,200.00		
25-May-86						
08-Jun-86			160.00	2,400.00		
22-Jun-86			80.00	1,200.00		
06-Jul-86			72.00	1,080.00		
20-Jul-86			80.00	1,200.00		
03-Aug-86			80.00	1,200.00		
17-Aug-86			80.00	1,200.00		
31-Aug-86						
14-Sep-86			72.00	1,080.00		
28-Sep-86			96.00	1,200.00		
12-Oct-86			160.00	2,400.00		
26-Oct-86			80.00	1,200.00		
09-Nov-86						
23-Nov-86			160.00	2,400.00		
07-Dec-86			64.00	960.00		
21-Dec-86			80.00	1,200.00		
04-Jan-87			64.00	960.00		
18-Jan-87			80.00	1,200.00		
01-Feb-87			72.00	1,112.40		
15-Feb-87			80.00	1,236.00		
01-Mar-87			72.00	1,112.40		
15-Mar-87			80.00	1,236.00		
29-Mar-87			80.00	1,236.00		
12-Apr-87			80.00	1,236.00		
26-Apr-87			80.00	1,236.00		
10-May-87			80.00	1,236.00		
24-May-87			80.00	1,236.00		
07-Jun-87			72.00	1,112.40		
21-Jun-87			80.00	1,236.00		
05-Jul-87			144.00	2,224.80		
19-Jul-87			80.00	1,236.00		
02-Aug-87			80.00	1,236.00		
16-Aug-87			114.00	1,761.30		
30-Aug-87			97.00	1,498.65		

2757

PLAINTIFF'S
EXHIBIT

958

FIELD NO.

ACE DIRECT LABOR

DATE	JOHNSON, E.		ALLEN		CARTER	
	HRS.	\$	HRS.	\$	HRS.	\$
13-Sep-87			72.00	1,112.40		
27-Sep-87			190.00	2,935.50		
11-Oct-87			80.00	1,236.00		
25-Oct-87			87.00	1,344.15		
08-Nov-87			80.00	1,236.00		
22-Nov-87			80.00	1,236.00		
06-Dec-87			64.00	988.80		
20-Dec-87			80.00	1,236.00		
03-Jan-88			104.00	1,606.80		
17-Jan-88			80.00	1,236.00		
31-Jan-88			76.00	1,174.20		
14-Feb-88			93.00	1,436.85		
28-Feb-88			72.00	1,112.40		
13-Mar-88			80.00	1,236.00		
27-Mar-88			83.00	1,282.35		
10-Apr-88				(339.90)		
24-Apr-88						
08-May-88						
22-May-88	40.00	654.00				
05-Jun-88	71.00	1,160.85				
19-Jun-88	80.00	1,308.00				
03-Jul-88	64.00	1,046.40				
17-Jul-88	72.00	1,177.20				
31-Jul-88	86.00	1,406.10				
14-Aug-88	80.00	1,308.00				
28-Aug-88	89.00	1,455.15				
11-Sep-88	88.00	1,438.80				
25-Sep-88	92.00	1,504.20				
09-Oct-88	80.00	1,308.00				
23-Oct-88	207.00	3,384.45				
06-Nov-88	80.00	1,308.00				
20-Nov-88	142.00	2,321.70				
04-Dec-88	146.00	2,387.10				
18-Dec-88	88.00	1,438.80				
01-Jan-89	72.00	1,177.20				
15-Jan-89	109.00	1,782.15				
29-Jan-89	122.00	1,994.70				
12-Feb-89	96.00	1,569.60				
26-Feb-89	97.00	1,585.95				
12-Mar-89	116.00	1,896.60				
26-Mar-89	123.00	2,011.05				
09-Apr-89	84.00	1,373.40				
23-Apr-89	119.00	1,945.65				
07-May-89	85.00	1,389.75				
21-May-89	99.00	1,635.80				
04-Jun-89	90.00	1,515.60				
18-Jun-89						
02-Jul-89	24.00	404.16				
16-Jul-89	84.00	1,414.56				
30-Jul-89	80.00	1,347.20				
13-Aug-89	96.00	1,616.64				
27-Aug-89	80.00	1,347.20				

	JOHNSON, E.		ALLEN		CARTER	
DATE	HRS.	\$	HRS.	\$	HRS.	\$
10-Sep-89	72.00	1,212.48				
24-Sep-89	80.00	1,347.20				
08-Oct-89	80.00	1,347.20				
22-Oct-89	80.00	1,347.20				
05-Nov-89	80.00	1,347.20				
19-Nov-89	72.00	1,212.48				
03-Dec-89	72.00	1,212.48				
17-Dec-89	80.00	1,347.20				
31-Dec-89	80.00	1,347.20				
14-Jan-90	72.00	1,212.48				
28-Jan-90	72.00	1,212.48				
11-Feb-90	80.00	1,347.20				
25-Feb-90	72.00	1,212.48				
11-Mar-90	80.00	1,347.20				
25-Mar-90	80.00	1,347.20				
08-Apr-90	80.00	1,347.20				
22-Apr-90	80.00	1,347.20				
06-May-90	92.00	1,549.28				
20-May-90	80.00	1,347.20				
03-Jun-90	72.00	1,212.48				
17-Jun-90	80.00	1,347.20				
01-Jul-90	80.00	1,347.20				
15-Jul-90	72.00	1,212.48				
29-Jul-90	80.00	1,347.20				
12-Aug-90	80.00	1,347.20				
26-Aug-90	80.00	1,347.20				
09-Sep-90	72.00	1,212.48				
23-Sep-90	80.00	1,347.20				
07-Oct-90	33.00	555.72				
21-Oct-90					80.00	1,411.20
04-Nov-90					90.00	1,587.60
18-Nov-90					72.00	1,270.08
02-Dec-90					64.00	1,128.96
16-Dec-90					87.00	1,534.68
30-Dec-90					40.00	705.60
13-Jan-91					72.00	1,270.08
27-Jan-91					72.00	1,270.08
10-Feb-91					81.00	1,428.84
24-Feb-91					82.00	1,446.48
10-Mar-91					58.00	1,023.12
24-Mar-91					42.00	740.88
07-Apr-91						
21-Apr-91						
05-May-91						
19-May-91						
TOTALS	5,294.00	87,880.88	5,078.00	78,001.50	840.00	14,817.60

TOTAL FIELD MAINTENANCE
DIRECT LABOR DOLLARS

180,700

CONTRACT MANAGEMENT

CT LABOR

DATE	YENOWINE, D.		ROSEN, M.		FOURNEY		HISE, W.	
	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
15-Sep-85							4.00	124.64
29-Sep-85	5.00	55.30						
13-Oct-85	16.25	179.73					11.00	342.76
27-Oct-85	31.00	342.86					16.00	498.56
10-Nov-85	53.50	591.71					31.00	965.96
24-Nov-85	41.00	453.46					28.00	872.48
08-Dec-85	36.50	403.69					26.00	810.16
22-Dec-85	24.00	265.44					15.00	467.40
05-Jan-86	13.50	149.31					17.00	529.72
19-Jan-86	48.00	530.88						
02-Feb-86	32.00	353.92					31.00	965.96
16-Feb-86	29.50	326.28					25.00	779.00
02-Mar-86	30.25	334.57					21.00	654.36
16-Mar-86	50.25	555.77					31.00	965.96
30-Mar-86	38.50	425.81					49.00	1,526.84
13-Apr-86	36.00	398.16					19.00	592.04
27-Apr-86	63.00	696.78					18.00	560.88
11-May-86	22.00	243.32					9.00	280.44
25-May-86	56.50	624.89					29.50	919.22
08-Jun-86	45.50	873.41					33.00	1,028.28
22-Jun-86	69.00	877.68					49.00	1,526.84
06-Jul-86	74.50	947.64					10.00	311.60
20-Jul-86	4.00	50.88					40.00	1,246.40
03-Aug-86	33.00	419.76					29.50	919.22
17-Aug-86	52.50	667.80					39.00	1,215.24
31-Aug-86	27.50	349.80					24.00	747.84
14-Sep-86	20.00	254.40					19.00	592.04
28-Sep-86	43.50	553.32					30.00	934.80
12-Oct-86	17.00	216.24					41.00	1,660.54
26-Oct-86	48.50	616.92					31.00	1,014.32
09-Nov-86	52.50	667.80					44.00	1,439.68
23-Nov-86	47.00	597.84					39.00	1,276.08
07-Dec-86	38.50	489.72					64.50	2,110.44
21-Dec-86	67.00	852.24					60.00	1,963.20
04-Jan-87	27.00	343.44					10.00	327.20
18-Jan-87	54.00	686.88					19.00	621.68
01-Feb-87	34.50	438.84					18.00	588.96
15-Feb-87	41.50	527.88					13.00	425.36
01-Mar-87	28.50	362.52					16.00	523.52
15-Mar-87					54.50	760.28	20.50	670.76
29-Mar-87					48.50	676.58	25.00	818.00
12-Apr-87					47.50	662.63	49.00	1,603.28
26-Apr-87					57.00	795.15	15.00	490.80
10-May-87					51.00	711.45	59.50	1,946.84
24-May-87					60.00	837.00	47.00	1,537.84
07-Jun-87					47.50	662.63	22.50	736.20
21-Jun-87					79.00	1,102.05	45.00	1,495.36
05-Jul-87					94.00	1,311.30	72.00	2,473.89
19-Jul-87					79.00	1,102.06	50.50	1,735.18
02-Aug-87					67.50	941.63	44.00	1,511.84
16-Aug-87					32.00	446.40	27.00	927.72
30-Aug-87					59.00	823.05	28.00	962.08

PLAINTIFF'S
EXHIBIT

959

2760

DATE	YENOWINE, D.		ROSEN, M.		FOURNEY		HISE, W.	
	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
13-Sep-87					39.50	551.03	23.00	790.28
27-Sep-87					55.50	774.23	5.00	171.80
11-Oct-87					29.50	411.53	24.00	824.64
25-Oct-87					45.00	627.75	14.50	498.22
08-Nov-87							13.00	446.68
22-Nov-87			10.00	153.90			22.00	755.92
06-Dec-87			19.00	292.41			6.00	206.16
20-Dec-87			37.00	569.43			9.00	309.24
03-Jan-88			39.00	600.21			8.00	274.88
17-Jan-88			36.50	561.74			14.00	481.04
31-Jan-88			23.00	353.97			15.00	515.40
14-Feb-88			9.00	138.51			5.00	171.80
28-Feb-88			20.50	315.50			8.00	274.88
13-Mar-88			46.00	707.94				
27-Mar-88			74.00	1,138.86			3.00	103.08
10-Apr-88			72.00	1,108.08			7.00	240.52
24-Apr-88			72.00	1,108.09			43.00	1,477.48
08-May-88			45.00	692.55			5.00	171.80
22-May-88			57.00	877.23			10.00	343.60
05-Jun-88			35.00	538.65			9.00	309.24
19-Jun-88			66.00	1,015.75			4.00	137.44
03-Jul-88			48.50	746.42			8.00	274.88
17-Jul-88			60.50	931.11			16.00	577.28
31-Jul-88			51.00	784.89			34.50	1,244.76
14-Aug-88			36.50	561.74			5.50	198.44
28-Aug-88			45.50	700.25			6.50	234.52
11-Sep-88			37.00	569.43			9.00	324.72
25-Sep-88			46.00	763.14			4.00	144.32
09-Oct-88			33.00	547.47			6.00	216.48
23-Oct-88			33.00	547.47			33.00	1,190.64
06-Nov-88			46.00	763.14			6.50	234.52
20-Nov-88			41.00	680.19			7.00	252.56
04-Dec-88			26.00	431.34			3.50	126.28
18-Dec-88			57.00	945.64			8.00	288.64
01-Jan-89			46.00	763.14			9.00	324.72
15-Jan-89			47.00	779.77			17.00	613.36
29-Jan-89			54.00	895.87			7.00	252.56
12-Feb-89			60.50	1,003.70			12.00	432.96
26-Feb-89			34.50	572.37			21.50	775.72
12-Mar-89			49.50	821.21			27.00	974.16
26-Mar-89			47.00	779.74			23.00	829.84
09-Apr-89			39.50	655.31			11.00	396.88
23-Apr-89			33.00	547.47			8.50	306.68
07-May-89			28.00	483.00			8.00	288.64
21-May-89			43.00	741.75			8.50	306.68
04-Jun-89			44.50	767.63			8.50	306.68
18-Jun-89			15.50	267.38			3.50	126.28
02-Jul-89			16.50	284.63			3.00	108.24
16-Jul-89			25.00	431.25			8.00	288.64
30-Jul-89			53.00	914.25			8.50	306.68
13-Aug-89			46.00	793.51			7.50	270.60
27-Aug-89			8.00	138.00			3.00	108.24

CONTRACT MANAGE

CT LABOR

DATE	VENOWINE, D.		ROSEN, M.		FOURNEY		HISE, W.	
	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
10-Sep-89								
24-Sep-89								
08-Oct-89								
22-Oct-89								
05-Nov-89								
19-Nov-89								
03-Dec-89								
17-Dec-89								
31-Dec-89								
14-Jan-90								
28-Jan-90								
11-Feb-90								
25-Feb-90								
11-Mar-90								
25-Mar-90								
08-Apr-90								
22-Apr-90								
06-May-90								
20-May-90								
03-Jun-90								
17-Jun-90								
01-Jul-90								
15-Jul-90								
29-Jul-90								
12-Aug-90								
26-Aug-90								
09-Sep-90								
23-Sep-90								
07-Oct-90								
21-Oct-90								
04-Nov-90								
18-Nov-90								
02-Dec-90								
16-Dec-90								
30-Dec-90								
13-Jan-91								
27-Jan-91								
10-Feb-91								
24-Feb-91								
10-Mar-91								
24-Mar-91								
07-Apr-91								
21-Apr-91								
05-May-91								
19-May-91								
TOTALS	1,452.25	17,726.89	1,912.50	30,785.03	946.00	13,196.75	2,104.00	70,069.11

TOTAL CONTRACT MANAGEMENT DIRECT LABOR DOLLARS

131,778

DATE	WILLIAMSON		MCGEE, M.		CATLIN	
	HRS.	\$	HRS.	\$	HRS.	\$
15-Sep-85						
29-Sep-85	64.00	774.40				
13-Oct-85	80.00	968.00				
27-Oct-85	80.00	968.00				
10-Nov-85	86.00	1,040.60				
24-Nov-85	80.00	968.00				
08-Dec-85	78.50	949.85				
22-Dec-85	81.00	980.10				
05-Jan-86	43.00	520.30				
19-Jan-86	87.00	1,052.70				
02-Feb-86	74.00	895.40				
16-Feb-86	80.00	968.00				
02-Mar-86	72.00	871.20				
16-Mar-86	85.00	1,028.50				
30-Mar-86	91.50	1,107.15				
13-Apr-86	80.00	968.00				
27-Apr-86	63.00	762.30				
11-May-86	80.00	968.00				
25-May-86	115.00	1,391.50				
08-Jun-86	121.00	1,451.94				
22-Jun-86	69.00	834.90				
06-Jul-86	56.00	677.60				
20-Jul-86	102.50	1,240.25				
03-Aug-86	79.00	955.90				
17-Aug-86	82.50	998.25				
31-Aug-86	80.00	968.00				
14-Sep-86	75.00	907.50				
28-Sep-86			16.00	354.40		
12-Oct-86			56.00	1,240.40		
26-Oct-86			109.00	2,414.36		
09-Nov-86			62.00	1,373.30		
23-Nov-86			83.50	1,849.52		
07-Dec-86			90.50	2,004.58		
21-Dec-86			79.00	1,749.85		
04-Jan-87			59.50	1,317.93	64.00	615.68
18-Jan-87			11.00	243.65	98.00	942.76
01-Feb-87			40.00	886.00	82.50	793.65
15-Feb-87					83.50	803.27
01-Mar-87			0.50	11.08	83.00	798.46
15-Mar-87					83.00	798.46
29-Mar-87			6.00	136.32	78.50	755.17
12-Apr-87					80.50	774.41
26-Apr-87					72.00	692.64
10-May-87					81.00	779.22
24-May-87					93.00	894.66
07-Jun-87					56.00	538.72
21-Jun-87					87.00	836.94
05-Jul-87					154.00	1,481.48
19-Jul-87					85.00	817.70
02-Aug-87					99.00	952.38
16-Aug-87					65.00	625.30
30-Aug-87					97.00	924.66

PLAINTIFF'S
EXHIBIT

9160

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COST ANALYSIS

DIRECT LABOR

DATE	WILLIAMSON		MCGEE, H.		CATLIN	
	HRS.	\$	HRS.	\$	HRS.	\$
13-Sep-87					55.00	529.10
27-Sep-87					97.00	933.14
11-Oct-87					77.50	745.55
25-Oct-87					75.00	721.50
08-Nov-87						
22-Nov-87					71.00	683.02
06-Dec-87					45.50	437.71
20-Dec-87					40.00	384.80
03-Jan-88					49.00	471.38
17-Jan-88					56.00	538.72
31-Jan-88					26.00	250.12
14-Feb-88						
28-Feb-88						
13-Mar-88						
27-Mar-88			55.75	1,320.16		
10-Apr-88			21.00	497.28		
24-Apr-88			20.00	473.60		
08-May-88			11.00	260.48		
22-May-88			12.50	296.00		
05-Jun-88			15.00	355.20		
19-Jun-88			12.50	296.00		
03-Jul-88			6.00	142.08		
17-Jul-88			18.00	426.24		
31-Jul-88			16.50	390.72		
14-Aug-88			14.50	343.36		
28-Aug-88			15.00	355.20		
11-Sep-88						
25-Sep-88			19.00	449.42		
09-Oct-88			21.00	497.28		
23-Oct-88			14.00	331.52		
06-Nov-88			21.50	509.12		
20-Nov-88			18.00	426.24		
04-Dec-88			15.50	367.04		
18-Dec-88			18.00	426.24		
01-Jan-89			8.00	189.44		
15-Jan-89			12.00	284.16		
29-Jan-89			12.00	284.16		
12-Feb-89			36.00	852.48		
26-Feb-89						
12-Mar-89			7.00	172.34		
26-Mar-89			33.00	812.46		
09-Apr-89			27.00	664.74		
23-Apr-89			17.50	430.85		
07-May-89			8.00	196.96		
21-May-89			44.00	1,083.28		
04-Jun-89						
18-Jun-89						
02-Jul-89			23.00	566.26		
16-Jul-89			25.50	627.81		
30-Jul-89			22.00	541.64		
13-Aug-89			14.00	344.68		
27-Aug-89			24.00	590.88		

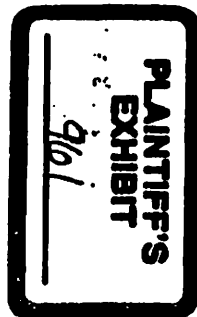
DATE	WILLIAMSON		MCGEE, M.		CATLIN	
	HRS.	\$	HRS.	\$	HRS.	\$
10-Sep-89			19.00	467.78		
24-Sep-89			21.00	517.02		
08-Oct-89						
22-Oct-89						
05-Nov-89			16.50	406.23		
19-Nov-89			17.50	430.85		
03-Dec-89			12.00	295.44		
17-Dec-89			10.00	246.20		
31-Dec-89			14.00	344.68		
14-Jan-90			12.00	295.44		
28-Jan-90			10.00	246.20		
11-Feb-90			7.00	172.34		
25-Feb-90			6.00	152.88		
11-Mar-90			12.00	305.76		
25-Mar-90			6.00	152.88		
08-Apr-90			7.00	178.36		
22-Apr-90			17.00	433.16		
06-May-90			11.00	280.28		
20-May-90			10.00	254.80		
03-Jun-90			7.00	178.36		
17-Jun-90						
01-Jul-90						
15-Jul-90			16.00	407.68		
29-Jul-90						
12-Aug-90						
26-Aug-90						
09-Sep-90						
23-Sep-90						
07-Oct-90						
21-Oct-90						
04-Nov-90						
18-Nov-90						
02-Dec-90						
16-Dec-90						
30-Dec-90						
13-Jan-91						
27-Jan-91						
10-Feb-91						
24-Feb-91						
10-Mar-91						
24-Mar-91						
07-Apr-91						
21-Apr-91						
05-May-91						
19-May-91						
TOTALS	2,085.00	25,216.34	1,501.75	35,153.05	2,134.00	20,520.60

TOTAL COST ANALYSIS DIRECT LABOR DOLLARS

80,890

SECRETARIAL DIRECT LABOR

	WOODLEY		MILLER, L.		JOHNSTON, V.		HARRIS, K.		FLOYD, A.		ANGLIN, A.	
DATE	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
15-Sep-85							52.00	364.00	51.00	357.00		
29-Sep-85							80.00	560.00	82.00	584.50		
13-Oct-85			10.00	105.80			80.00	560.00	80.00	560.00		
27-Oct-85			18.00	190.44			74.00	518.00	80.00	560.00		
10-Nov-85			21.00	222.18			76.00	532.00	69.00	483.00		
24-Nov-85			34.00	359.72			81.00	650.48	83.00	729.75		
08-Dec-85			43.00	454.94			93.50	795.64	87.50	764.23		
22-Dec-85			43.00	454.94			77.00	584.33	52.00	419.65		
05-Jan-86			35.50	375.59			65.00	520.02	73.00	627.55		
19-Jan-86			55.50	587.19			75.00	553.09	80.50	621.78		
02-Feb-86			29.00	306.82			71.00	521.85	72.00	554.40		
16-Feb-86			36.50	386.17			73.00	536.55	79.00	608.30		
02-Mar-86			76.00	804.08			104.50	899.31	104.00	924.00		
16-Mar-86			60.50	640.09			82.00	602.70	59.00	454.30		
30-Mar-86			43.00	454.94			81.75	607.29	76.00	585.20		
13-Apr-86			47.50	502.55			77.00	565.95	77.00	592.90		
27-Apr-86			52.50	555.45			80.00	588.00	78.00	600.60		
11-May-86			61.00	645.38			76.50	578.81	54.00	433.13		
25-May-86			83.00	878.14			90.50	771.93	90.00	785.93		
08-Jun-86			30.00	317.40			67.00	528.82	62.50	511.06		
22-Jun-86			44.00	465.52			78.50	521.11	86.50	725.18		
06-Jul-86			50.00	529.00			64.50	499.87	40.50	329.26	7.00	52.92
20-Jul-86			22.00	232.76			64.00	494.08	73.50	603.98	21.50	162.54
03-Aug-86							80.00	617.60	59.00	476.72	5.00	37.80
17-Aug-86							72.00	555.84	69.00	557.52	18.00	136.08
31-Aug-86							80.00	617.60	80.00	646.40	50.50	381.78
14-Sep-86							78.00	625.32	70.00	606.00	72.00	544.32
28-Sep-86							104.50	916.75	106.00	969.60	39.00	294.84
12-Oct-86							77.50	600.23	57.00	460.56	72.00	568.00
26-Oct-86							80.00	617.60	72.00	581.76	49.00	388.57
09-Nov-86							76.00	586.72	76.00	614.08	10.00	79.30
23-Nov-86							77.50	598.30	24.00	193.92	48.00	380.64
07-Dec-86							74.50	619.53			7.00	55.51
21-Dec-86							95.50	859.45			6.00	47.58
04-Jan-87							64.00	519.00			16.00	126.88
18-Jan-87							91.50	808.98			56.00	444.08
01-Feb-87	30.00	259.80					71.50	642.72			30.00	237.90
15-Feb-87	38.00	344.24					80.50	689.37			32.00	253.76
01-Mar-87	37.50	324.75					71.00	579.87			53.00	420.29
15-Mar-87	66.00	575.89					76.50	638.67			22.00	174.46
29-Mar-87	59.50	515.27					84.00	729.90			23.00	182.39
12-Apr-87	67.50	608.37					106.00	965.09			19.00	150.67
26-Apr-87	46.50	404.86					73.50	618.39			11.00	87.23
10-May-87	45.25	395.11					67.50	549.45				
24-May-87	72.50	675.48					141.00	1,156.69				
07-Jun-87	44.50	385.37					113.00	1,050.25				



SECRETARIAL DIRECT LABOR

	WOODLEY		MILLER, L.		JOHNSTON, V.		HARRIS, K.		FLOYD, A.		ANGLIN, A.	
DATE	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
21-Jun-87	62.00	539.09					80.00	648.80				
05-Jul-87	78.00	675.48					128.00	1,038.08				
19-Jul-87	75.00	736.11					73.00	596.09				
02-Aug-87	53.00	484.06					86.00	721.80				
16-Aug-87	37.50	352.24					81.00	660.97			2.00	15.86
30-Aug-87	31.50	286.34					90.00	770.45				
13-Sep-87	38.50	354.52					61.00	490.65				
27-Sep-87	15.50	143.17					60.50	494.71				
11-Oct-87	53.00	481.77					35.50	287.91				
25-Oct-87	46.50	431.78										
08-Nov-87	40.50	377.24									5.00	41.65
22-Nov-87	43.00	390.87										
06-Dec-87	37.50	340.88										
20-Dec-87	45.00	409.05										
03-Jan-88	26.50	240.89										
17-Jan-88	36.00	327.24										
31-Jan-88	29.00	274.86										
14-Feb-88	23.50	224.19			64.00	576.00						
28-Feb-88	31.00	295.74			86.00	774.00						
13-Mar-88	42.50	405.45			53.50	481.50						
27-Mar-88	60.00	477.00			80.00	720.00						
10-Apr-88	41.50	395.91			80.00	720.00						
24-Apr-88	50.50	481.77			80.00	720.00						
08-May-88	31.00	295.74			80.00	720.00						
22-May-88	49.50	472.23			79.00	711.00						
05-Jun-88	24.00	228.96			55.00	495.00						
19-Jun-88	54.50	519.93			64.00	576.00						
03-Jul-88	50.00	477.00			80.00	720.00						
17-Jul-88	63.00	601.02			73.00	657.00						
31-Jul-88					78.50	706.50						
14-Aug-88					80.00	745.60						
28-Aug-88					77.00	717.64						
11-Sep-88					72.00	671.04						
25-Sep-88					72.00	671.04						
09-Oct-88					40.00	372.80						
23-Oct-88					78.00	726.96						
06-Nov-88					77.00	717.64						
20-Nov-88					80.00	745.60						
04-Dec-88					64.00	596.48						
18-Dec-88					80.00	745.60						
01-Jan-89					60.50	563.86						
15-Jan-89					72.00	671.04						
29-Jan-89					67.00	624.44						
12-Feb-89					78.50	749.12						
26-Feb-89					70.50	676.80						
12-Mar-89					72.00	691.20						

SECRETARIAL DIRECT LABOR

	WOODLEY		MILLER, L.		JOHNSTON, V.		HARRIS, K.		FLOYD, A.		ANGLIN, A.	
DATE	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
26-Mar-89					78.00	748.80						
09-Apr-89					79.00	758.40						
23-Apr-89					71.50	686.40						
07-May-89					74.00	710.40						
21-May-89					78.00	748.80						
04-Jun-89					61.50	590.40						
18-Jun-89					85.00	816.00						
02-Jul-89					68.50	657.60						
16-Jul-89					68.00	652.80						
30-Jul-89					75.00	720.00						
13-Aug-89					80.00	768.00						
27-Aug-89					71.00	681.60						
10-Sep-89					72.00	691.20						
24-Sep-89					77.50	744.00						
08-Oct-89					70.00	672.00						
22-Oct-89					53.00	508.80						
05-Nov-89					8.00	76.80						
19-Nov-89												
03-Dec-89												
17-Dec-89												
31-Dec-89												
14-Jan-90												
28-Jan-90												
11-Feb-90					40.00	399.20						
25-Feb-90					72.00	718.56						
11-Mar-90					78.00	778.44						
25-Mar-90					72.00	718.56						
08-Apr-90					79.00	788.42						
22-Apr-90					75.00	748.50						
06-May-90					69.00	688.62						
20-May-90					32.00	319.36						
03-Jun-90												
17-Jun-90												
01-Jul-90												
15-Jul-90												
29-Jul-90												
12-Aug-90												
26-Aug-90					12.00	129.00						
09-Sep-90					52.00	559.00						
23-Sep-90					54.00	580.50						
07-Oct-90					58.00	623.50						
21-Oct-90					62.00	666.50						
04-Nov-90					58.00	623.50						
18-Nov-90					56.00	602.00						
02-Dec-90					36.00	387.00						
16-Dec-90					56.00	602.00						

SECRETARIAL DIRECT LABOR

DATE	WOODLEY		MILLER, L.		JOHNSTON, V.		HARRIS, K.		FLOYD, A.		ANGLIN, A.	
	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$	HRS.	\$
30-Dec-90					26.50	284.88						
13-Jan-91					45.00	483.75						
27-Jan-91					48.00	516.00						
10-Feb-91					23.50	252.63						
24-Feb-91												
10-Mar-91												
24-Mar-91					24.00	258.00						
07-Apr-91					60.00	645.00						
21-Apr-91					60.00	645.00						
05-May-91					58.00	623.50						
19-May-91					51.00	548.25						
TOTAL	1,766.25	16,209.67	895.00	9,469.10	4,620.50	44,685.53	4,394.25	35,226.61	2,303.00	18,522.26	674.00	5,265.05

TOTAL SECRETARIAL DIRECT LABOR DOLLARS **129,378.22**

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
10-Nov-85	VIP TRAVEL AGENCY	475.00	13
10-Nov-85	VIP TRAVEL AGENCY	622.00	13
10-Nov-85	HELVIG, GLENN	129.76	13
10-Nov-85	VIP TRAVEL AGENCY	475.00	13
10-Nov-85	BEHR, ALAN	1,858.78	13
10-Nov-85	YENOWINE, DAVID	95.15	13
24-Nov-85	VIP TRAVEL AGENCY	980.00	18
08-Dec-85	JOHNSON, ALFRED	6,259.05	13
22-Dec-85	GALLAGHER, JOHN	686.56	18
22-Dec-85	VIP TRAVEL AGENCY	535.00	13
22-Dec-85	ALLEN, GEORGE	63.92	13
05-Jan-86	SOLEBELLO, MICHAEL	827.74	12
05-Jan-86	MONMOUTH WORLD TRAVEL	237.00	12
05-Jan-86	ARROW LIMOUSINE	157.00	12
06-Jan-86	ALLEN, GEORGE	962.68	13
06-Jan-86	VIP TRAVEL AGENCY	269.00	13
06-Jan-86	BEHR, ALAN	8.65	13
19-Jan-86	VIP TRAVEL AGENCY	490.00	16
19-Jan-86	VIP TRAVEL AGENCY	490.00	9
19-Jan-86	YENOWINE, DAVID	232.83	9
19-Jan-86	YENOWINE, DAVID	232.82	16
19-Jan-86	VIP TRAVEL AGENCY	459.00	16
02-Feb-86	HELVIG, GLENN	243.18	9
02-Feb-86	SOLEBELLO, MICHAEL	1,105.28	12
02-Feb-86	HELVIG, GLENN	243.18	16
02-Feb-86	SOLEBELLO, MICHAEL	310.36	12
16-Feb-86	MONMOUTH WORLD TRAVEL	490.00	12
16-Feb-86	MONMOUTH WORLD TRAVEL	490.00	17
16-Feb-86	ARROW LIMOUSINE	166.00	12
02-Mar-86	SOLEBELLO, MICHAEL	346.55	10
02-Mar-86	SOLEBELLO, MICHAEL	582.36	9
02-Mar-86	ALLEN, GEORGE	2,715.41	13
02-Mar-86	SOLEBELLO, MICHAEL	346.58	15
02-Mar-86	JOHNSON, ALFRED	5,228.01	13
02-Mar-86	ARROW LIMOUSINE	78.00	12
02-Mar-86	JOHNSON, ALFRED	110.30	12
02-Mar-86	SOLEBELLO, MICHAEL	1,005.00	12
02-Mar-86	ARROW LIMOUSINE	78.00	12
16-Mar-86	SOLEBELLO, MICHAEL	167.46	10
16-Mar-86	SOLEBELLO, MICHAEL	167.46	9
16-Mar-86	SOLEBELLO, MICHAEL	167.15	13
30-Mar-86	MONMOUTH WORLD TRAVEL	118.50	9
30-Mar-86	MONMOUTH WORLD TRAVEL	39.50	16
30-Mar-86	ARROW LIMOUSINE	39.00	9
30-Mar-86	ALLEN, GEORGE	1,359.49	13
13-Apr-86	VIP TRAVEL AGENCY	196.00	16
13-Apr-86	MONMOUTH WORLD TRAVEL	536.00	15
13-Apr-86	JOHNSON, ALFRED	301.23	17
13-Apr-86	HISE, WILLIAM	1,610.99	13
13-Apr-86	JOHNSON, ALFRED	301.23	12
13-Apr-86	VIP TRAVEL AGENCY	196.00	11
13-Apr-86	SOLEBELLO, MICHAEL	92.53	9
13-Apr-86	VIP TRAVEL AGENCY	196.00	13
13-Apr-86	KRUMEL, RICHARD	136.56	17
13-Apr-86	MONMOUTH WORLD TRAVEL	534.00	9
13-Apr-86	VIP TRAVEL AGENCY	196.00	12
13-Apr-86	JOHNSON, ALFRED	563.48	18
13-Apr-86	JOHNSON, ALFRED	1,420.70	10
13-Apr-86	JOHNSON, ALFRED	2,513.50	13
13-Apr-86	JOHNSON, ALFRED	2,822.52	8
13-Apr-86	VIP TRAVEL AGENCY	196.00	17
13-Apr-86	JOHNSON, ALFRED	563.49	10
13-Apr-86	ALLEN, GEORGE	597.75	13
13-Apr-86	MONMOUTH WORLD TRAVEL	457.00	16
13-Apr-86	SOLEBELLO, MICHAEL	416.10	12
13-Apr-86	VIP TRAVEL AGENCY	75.00	14
13-Apr-86	VIP TRAVEL AGENCY	75.00	8
13-Apr-86	JOHNSON, ALFRED	1,420.71	15
13-Apr-86	JOHNSON, ALFRED	563.49	17
13-Apr-86	SOLEBELLO, MICHAEL	417.95	17
13-Apr-86	KRUMEL, RICHARD	136.54	12
13-Apr-86	KRUMEL, RICHARD	136.54	11
13-Apr-86	ALLEN, GEORGE	3,041.25	13

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PLAINTIFF'S
EXHIBIT

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TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
13-Apr-86	KRUMEL, RICHARD	136.54	13
13-Apr-86	JOHNSON, ALFRED	563.49	12
13-Apr-86	KRUMEL, RICHARD	136.55	16
27-Apr-86	ARROW LIMOUSINE	41.93	17
27-Apr-86	ALLEN, GEORGE	664.55	13
27-Apr-86	ARROW LIMOUSINE	105.92	12
27-Apr-86	JOHNSON, ALFRED	30.51	14
27-Apr-86	JOHNSON, ALFRED	30.52	8
11-May-86	MONMOUTH WORLD TRAVEL	490.00	12
11-May-86	JOHNSON, ALFRED	423.10	12
11-May-86	KRUMEL, RICHARD	113.44	17
11-May-86	THOMAS, KENNETH	209.28	17
11-May-86	SOLEBELLO, MICHAEL	467.21	17
11-May-86	MONMOUTH WORLD TRAVEL	441.00	12
11-May-86	YENOWINE, DAVID	900.56	8
11-May-86	MONMOUTH WORLD TRAVEL	441.00	17
11-May-86	SOLEBELLO, MICHAEL	575.86	17
11-May-86	JOHNSON, ALFRED	256.54	17
11-May-86	SOLEBELLO, MICHAEL	467.19	12
11-May-86	ALLEN, GEORGE	946.95	13
11-May-86	SOLEBELLO, MICHAEL	237.15	12
11-May-86	MONMOUTH WORLD TRAVEL	(64.67)	15
11-May-86	VIP TRAVEL AGENCY	231.00	11
11-May-86	JOHNSON, ALFRED	320.00	10
11-May-86	SOLEBELLO, MICHAEL	575.87	12
11-May-86	SOLEBELLO, MICHAEL	492.50	11
11-May-86	VIP TRAVEL AGENCY	258.50	12
11-May-86	VIP TRAVEL AGENCY	232.50	8
11-May-86	HELVIG, GLENN	561.06	11
11-May-86	SOLEBELLO, MICHAEL	237.15	10
11-May-86	KRUMEL, RICHARD	113.45	12
11-May-86	MONMOUTH WORLD TRAVEL	490.00	17
11-May-86	MONMOUTH WORLD TRAVEL	(64.66)	16
11-May-86	THOMAS, KENNETH	209.28	12
11-May-86	VIP TRAVEL AGENCY	258.50	17
11-May-86	MONMOUTH WORLD TRAVEL	158.00	9
25-May-86	SOLEBELLO, MICHAEL	557.53	12
25-May-86	JOHNSON, ALFRED	1,003.42	9
25-May-86	MONMOUTH WORLD TRAVEL	158.00	17
25-May-86	ARROW LIMOUSINE	103.00	11
25-May-86	JOHNSON, ALFRED	1,003.42	17
25-May-86	ARROW LIMOUSINE	39.00	12
25-May-86	ARROW LIMOUSINE	55.10	17
25-May-86	JOHNSON, ALFRED	1,003.42	12
25-May-86	MONMOUTH WORLD TRAVEL	79.00	12
25-May-86	ALLEN, GEORGE	2,173.70	13
25-May-86	JOHNSON, ALFRED	1,003.41	10
25-May-86	AIRPORT WHEELS	27.60	12
25-May-86	ARROW LIMOUSINE	133.10	12
25-May-86	JOHNSON, ALFRED	409.53	10
25-May-86	MONMOUTH WORLD TRAVEL	79.00	10
25-May-86	AIRPORT WHEELS	27.60	17
25-May-86	JOHNSON, ALFRED	409.53	9
25-May-86	AIRPORT WHEELS	27.60	10
25-May-86	SOLEBELLO, MICHAEL	557.52	17
25-May-86	JOHNSON, ALFRED	409.53	12
25-May-86	ARROW LIMOUSINE	55.10	10
25-May-86	ARROW LIMOUSINE	39.00	17
25-May-86	JOHNSON, ALFRED	409.53	17
25-May-86	SOLEBELLO, MICHAEL	511.95	17
08-Jun-86	ALLEN, GEORGE	605.20	13
08-Jun-86	ALLEN, GEORGE	799.30	13
08-Jun-86	MONMOUTH WORLD TRAVEL	158.00	17
22-Jun-86	JOHNSON, ALFRED	841.18	17
22-Jun-86	JOHNSON, ALFRED	472.83	10
22-Jun-86	AIRPORT WHEELS	18.40	17
22-Jun-86	SOLEBELLO, MICHAEL	32.58	17
22-Jun-86	SOLEBELLO, MICHAEL	32.58	12
22-Jun-86	JOHNSON, ALFRED	841.19	12
22-Jun-86	AIRPORT WHEELS	18.40	12
22-Jun-86	JOHNSON, ALFRED	472.83	9
22-Jun-86	ALLEN, GEORGE	636.75	13
22-Jun-86	ALLEN, GEORGE	607.50	13

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
29-Jun-86	MONMOUTH WORLD TRAVEL	(39.50)	11
29-Jun-86	MONMOUTH WORLD TRAVEL	(39.50)	16
29-Jun-86		(470.35)	12
29-Jun-86	THOMAS, KENNETH	80.45	12
29-Jun-86	JOHNSON, ALFRED	1,420.71	15
29-Jun-86	JOHNSON, ALFRED	495.48	15
29-Jun-86	BEHR, ALAN	236.33	8
29-Jun-86	ARROW LIMOUSINE	22.62	12
29-Jun-86	ALLEN, GEORGE	609.50	13
29-Jun-86	JOHNSON, ALFRED	301.23	12
29-Jun-86	JOHNSON, ALFRED	495.48	13
29-Jun-86	ARROW LIMOUSINE	217.43	17
29-Jun-86	JOHNSON, ALFRED	(2,513.55)	13
29-Jun-86	SOLEBELLO, MICHAEL	191.94	17
29-Jun-86	JOHNSON, ALFRED	2,513.55	13
29-Jun-86	THOMAS, KENNETH	80.45	17
29-Jun-86	BEHR, ALAN	554.53	14
29-Jun-86	JOHNSON, ALFRED	301.23	17
29-Jun-86	JOHNSON, ALFRED	495.48	11
29-Jun-86	ALLEN, GEORGE	1,660.40	13
29-Jun-86	JOHNSON, ALFRED	(2,822.52)	8
29-Jun-86	JOHNSON, ALFRED	495.48	10
29-Jun-86	JOHNSON, ALFRED	495.48	12
29-Jun-86	JOHNSON, ALFRED	(1,420.70)	10
29-Jun-86	JOHNSON, ALFRED	(301.23)	17
29-Jun-86	JOHNSON, ALFRED	1,420.70	10
29-Jun-86	MONMOUTH WORLD TRAVEL	79.00	17
29-Jun-86	SOLEBELLO, MICHAEL	191.94	12
29-Jun-86	MONMOUTH WORLD TRAVEL	79.00	12
29-Jun-86	JOHNSON, ALFRED	(301.23)	12
29-Jun-86	JOHNSON, ALFRED	(1,420.71)	15
29-Jun-86	JOHNSON, ALFRED	2,822.52	8
20-Jul-86	KRUMEL, RICHARD	75.49	11
20-Jul-86	KRUMEL, RICHARD	151.04	17
20-Jul-86	KRUMEL, RICHARD	151.04	12
20-Jul-86	ALLEN, GEORGE	280.00	13
20-Jul-86	KRUMEL, RICHARD	151.04	13
20-Jul-86	KRUMEL, RICHARD	75.49	16
20-Jul-86	BEHR, ALAN	455.96	8
03-Aug-86	SOLEBELLO, MICHAEL	484.66	12
03-Aug-86	ALLEN, GEORGE	1,247.15	13
03-Aug-86	VIP TRAVEL AGENCY	294.00	17
03-Aug-86	ALLEN, GEORGE	604.20	13
03-Aug-86	VIP TRAVEL AGENCY	293.00	12
03-Aug-86	SOLEBELLO, MICHAEL	484.66	17
03-Aug-86	BEHR, ALAN	454.37	14
03-Aug-86	BEHR, ALAN	573.23	8
17-Aug-86	ALLEN, GEORGE	612.70	13
17-Aug-86	ARROW LIMOUSINE	22.00	9
17-Aug-86	JOHNSON, ALFRED	808.10	12
17-Aug-86	JOHNSON, ALFRED	808.09	11
17-Aug-86	JOHNSON, ALFRED	808.09	10
17-Aug-86	BEHR, ALAN	347.82	13
17-Aug-86	JOHNSON, ALFRED	808.09	13
17-Aug-86	ALLEN, GEORGE	789.20	13
17-Aug-86	BEHR, ALAN	549.07	8
17-Aug-86	JOHNSON, ALFRED	808.09	15
31-Aug-86	MONMOUTH WORLD TRAVEL	490.00	17
31-Aug-86	SOLEBELLO, MICHAEL	149.80	12
31-Aug-86	MONMOUTH WORLD TRAVEL	79.00	17
31-Aug-86	MONMOUTH WORLD TRAVEL	490.00	12
31-Aug-86	SOLEBELLO, MICHAEL	149.80	17
31-Aug-86	ARROW LIMOUSINE	23.50	12
31-Aug-86	ALLEN, GEORGE	1,027.70	13
31-Aug-86	MONMOUTH WORLD TRAVEL	79.00	12
31-Aug-86	ARROW LIMOUSINE	23.50	17
14-Sep-86	SOLEBELLO, MICHAEL	(21.50)	12
14-Sep-86	SOLEBELLO, MICHAEL	(21.50)	17
28-Sep-86	KRUMEL, RICHARD	48.86	17
28-Sep-86	ARROW LIMOUSINE	46.00	17
28-Sep-86	KRUMEL, RICHARD	245.08	11
28-Sep-86	KRUMEL, RICHARD	48.86	12
28-Sep-86	AIRPORT WHEELS	36.80	17

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
28-Sep-86	JOHNSON, ALFRED	258.73	9
28-Sep-86	KRUMEL, RICHARD	245.06	16
28-Sep-86	JOHNSON, ALFRED	459.37	12
28-Sep-86	SOLEBELLO, MICHAEL	80.43	17
28-Sep-86	SOLEBELLO, MICHAEL	80.44	12
28-Sep-86	JOHNSON, ALFRED	536.54	16
28-Sep-86	MONMOUTH WORLD TRAVEL	118.00	17
28-Sep-86	AIRPORT WHEELS	36.80	10
28-Sep-86	AIRPORT WHEELS	36.80	12
28-Sep-86	ARROW LIMOUSINE	46.00	17
28-Sep-86	JOHNSON, ALFRED	423.21	10
28-Sep-86	ARROW LIMOUSINE	36.00	17
28-Sep-86	JOHNSON, ALFRED	72.59	17
28-Sep-86	ARROW LIMOUSINE	46.00	17
28-Sep-86	SOLEBELLO, MICHAEL	242.19	17
28-Sep-86	ARROW LIMOUSINE	46.00	12
28-Sep-86	ALLEN, GEORGE	2,939.25	13
28-Sep-86	AIRPORT WHEELS	36.80	9
28-Sep-86	JOHNSON, ALFRED	186.23	17
28-Sep-86	ARROW LIMOUSINE	36.00	12
12-Oct-86	AIRPORT WHEELS	21.00	17
12-Oct-86	JOHNSON, ALFRED	53.77	10
12-Oct-86	JOHNSON, ALFRED	53.77	9
12-Oct-86	JOHNSON, ALFRED	53.79	17
12-Oct-86	AIRPORT WHEELS	21.00	10
12-Oct-86	AIRPORT WHEELS	13.03	12
12-Oct-86	AIRPORT WHEELS	34.03	9
26-Oct-86	SOLEBELLO, MICHAEL	417.41	17
26-Oct-86	MONMOUTH WORLD TRAVEL	79.00	17
26-Oct-86	ALLEN, GEORGE	2,144.96	13
26-Oct-86	ARROW LIMOUSINE	19.50	17
26-Oct-86	SOLEBELLO, MICHAEL	417.41	12
26-Oct-86	MONMOUTH WORLD TRAVEL	79.00	17
26-Oct-86	MONMOUTH WORLD TRAVEL	79.00	12
26-Oct-86	ARROW LIMOUSINE	19.50	12
09-Nov-86	MONMOUTH WORLD TRAVEL	35.00	17
09-Nov-86	SOLEBELLO, MICHAEL	326.92	12
09-Nov-86	MONMOUTH WORLD TRAVEL	79.00	12
09-Nov-86	MONMOUTH WORLD TRAVEL	79.00	17
09-Nov-86	JOHNSON, ALFRED	55.00	12
09-Nov-86	JONES, EVERETT	246.67	17
09-Nov-86	VIP TRAVEL AGENCY	240.00	17
09-Nov-86	MONMOUTH WORLD TRAVEL	89.50	17
09-Nov-86	ARROW LIMOUSINE	44.85	12
09-Nov-86	VIP TRAVEL AGENCY	365.00	12
09-Nov-86	BELL, EDWARD	158.42	12
09-Nov-86	MONMOUTH WORLD TRAVEL	79.00	17
09-Nov-86	BELL, EDWARD	158.40	17
09-Nov-86	VIP TRAVEL AGENCY	365.00	17
09-Nov-86	MONMOUTH WORLD TRAVEL	89.50	12
09-Nov-86	ARROW LIMOUSINE	146.42	17
09-Nov-86	JONES, EVERETT	186.08	12
09-Nov-86	VIP TRAVEL AGENCY	240.00	12
09-Nov-86	MONMOUTH WORLD TRAVEL	35.00	12
09-Nov-86	MONMOUTH WORLD TRAVEL	79.00	12
09-Nov-86	ARROW LIMOUSINE	39.00	17
09-Nov-86	SOLEBELLO, MICHAEL	326.92	17
09-Nov-86	ALLEN, GEORGE	5,824.70	13
09-Nov-86	ARROW LIMOUSINE	68.43	12
09-Nov-86	JOHNSON, ALFRED	55.00	17
23-Nov-86	ALLEN, GEORGE	616.00	13
23-Nov-86	JOHNSON, ALFRED	324.08	17
23-Nov-86	JOHNSON, ALFRED	324.09	16
23-Nov-86	JOHNSON, ALFRED	324.09	15
23-Nov-86	JOHNSON, ALFRED	324.09	14
23-Nov-86	ALLEN, GEORGE	935.50	13
07-Dec-86	VIP TRAVEL AGENCY	301.50	17
07-Dec-86	VIP TRAVEL AGENCY	301.50	17
07-Dec-86	VIP TRAVEL AGENCY	301.50	12
07-Dec-86	VIP TRAVEL AGENCY	(301.50)	17
07-Dec-86	VIP TRAVEL AGENCY	301.50	12
07-Dec-86	MCGEE, MARVIN	396.35	17
07-Dec-86	VIP TRAVEL AGENCY	(301.50)	12

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
07-Dec-86	MCGEE, MARVIN	396.35	12
07-Dec-86	ARROW LIMOUSINE	78.00	14
07-Dec-86	ALLEN, GEORGE	1,906.51	13
21-Dec-86	JOHNSON, ALFRED	747.51	17
21-Dec-86	ALLEN, GEORGE	2,193.35	13
21-Dec-86	JOHNSON, ALFRED	812.79	10
21-Dec-86	JOHNSON, ALFRED	65.29	12
21-Dec-86	JOHNSON, ALFRED	812.80	13
04-Jan-87	ALLEN, GEORGE	622.75	13
04-Jan-87	ALLEN, GEORGE	935.70	13
18-Jan-87	ALLEN, GEORGE	1,239.50	13
18-Jan-87	VIP TRAVEL AGENCY	293.00	12
18-Jan-87	VIP TRAVEL AGENCY	293.00	17
01-Feb-87	HELWIG, GLENN	213.16	12
01-Feb-87	HELWIG, GLENN	213.16	17
01-Feb-87	VIP TRAVEL AGENCY	326.00	14
01-Feb-87	ALLEN, GEORGE	1,873.80	13
01-Feb-87	ALLEN, GEORGE	935.20	13
01-Feb-87	YENOWINE, DAVID	512.29	14
15-Feb-87	ALLEN, GEORGE	1,936.95	13
15-Feb-87	JOHNSON, ALFRED	264.13	13
01-Mar-87	VIP TRAVEL AGENCY	316.50	17
01-Mar-87	THORNTON, RUFUS	330.98	17
01-Mar-87	VIP TRAVEL AGENCY	244.00	12
01-Mar-87	VIP TRAVEL AGENCY	244.00	17
01-Mar-87	VIP TRAVEL AGENCY	316.50	12
01-Mar-87	THORNTON, RUFUS	330.98	12
15-Mar-87	ALLEN, GEORGE	994.50	13
15-Mar-87	MONMOUTH WORLD TRAVEL	158.00	17
15-Mar-87	JONES, EVERETT	275.25	17
15-Mar-87	ALLEN, GEORGE	1,005.00	13
15-Mar-87	ASHLEY, RICHARD	453.96	12
15-Mar-87	JOHNSON, ALFRED	737.38	13
15-Mar-87	JOHNSON, ALFRED	737.39	10
15-Mar-87	ALLEN, GEORGE	1,276.00	13
15-Mar-87	JOHNSON, ALFRED	737.39	15
15-Mar-87	JONES, EVERETT	275.25	12
24-Mar-87	JOHNSON, ALFRED	1,729.50	10
24-Mar-87	JOHNSON, ALFRED	991.72	10
29-Mar-87	THORNTON, RUFUS	165.82	12
29-Mar-87	VIP TRAVEL AGENCY	171.50	12
29-Mar-87	THORNTON, RUFUS	101.55	12
29-Mar-87	THORNTON, RUFUS	165.82	17
29-Mar-87	THORNTON, RUFUS	101.55	17
29-Mar-87	VIP TRAVEL AGENCY	171.50	17
29-Mar-87	ALLEN, GEORGE	936.70	13
12-Apr-87	ALLEN, GEORGE	933.70	13
26-Apr-87	ALLEN, GEORGE	934.00	13
26-Apr-87	ALLEN, GEORGE	937.40	13
26-Apr-87	ALLEN, GEORGE	932.20	13
10-May-87	ALLEN, GEORGE	936.00	13
10-May-87	VIP TRAVEL AGENCY	250.00	12
10-May-87	JONES, EVERETT	169.67	17
10-May-87	JONES, EVERETT	169.66	12
10-May-87	ALLEN, GEORGE	935.00	13
10-May-87	THORNTON, RUFUS	413.37	12
10-May-87	VIP TRAVEL AGENCY	250.00	17
24-May-87	JOHNSON, ALFRED	1,068.55	9
24-May-87	BELL, EDWARD	168.18	17
24-May-87	JOHNSON, ALFRED	643.12	13
24-May-87	JOHNSON, ALFRED	1,729.52	15
24-May-87	JOHNSON, ALFRED	643.13	12
24-May-87	JONES, EVERETT	249.63	17
24-May-87	JOHNSON, ALFRED	991.73	15
24-May-87	JOHNSON, ALFRED	871.85	11
24-May-87	JOHNSON, ALFRED	1,068.55	16
24-May-87	JONES, EVERETT	249.63	12
24-May-87	BELL, EDWARD	168.19	12
24-May-87	ALLEN, GEORGE	1,980.80	13
07-Jun-87	JONES, EVERETT	291.70	17
07-Jun-87	VIP TRAVEL AGENCY	275.00	17
07-Jun-87	VIP TRAVEL AGENCY	342.00	17
07-Jun-87	ALLEN, GEORGE	1,025.40	13

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
07-Jun-87	JOHNSON, ALFRED	392.21	15
07-Jun-87	JOHNSON, ALFRED	392.21	10
07-Jun-87	ALLEN, GEORGE	1,026.40	13
07-Jun-87	JONES, EVERETT	291.69	12
07-Jun-87	VIP TRAVEL AGENCY	275.00	12
07-Jun-87	VIP TRAVEL AGENCY	342.00	12
21-Jun-87	THORNTON, RUFUS	358.27	12
21-Jun-87	JOHNSON, ALFRED	656.01	12
21-Jun-87	ALLEN, GEORGE	707.00	13
21-Jun-87	VIP TRAVEL AGENCY	359.00	14
21-Jun-87	JOHNSON, ALFRED	656.01	16
21-Jun-87	THORNTON, RUFUS	522.73	14
21-Jun-87	VIP TRAVEL AGENCY	277.50	12
21-Jun-87	ALLEN, GEORGE	1,344.51	13
21-Jun-87	VIP TRAVEL AGENCY	277.50	17
28-Jun-87	VIP TRAVEL AGENCY	420.00	14
28-Jun-87	VIP TRAVEL AGENCY	420.00	14
28-Jun-87	ALLEN, GEORGE	1,027.05	13
28-Jun-87	ALLEN, GEORGE	1,026.95	13
28-Jun-87	BELL, EDWARD	251.99	14
28-Jun-87	HISE, W.	5,550.64	13
28-Jun-87	ALLEN, GEORGE	1,029.18	13
28-Jun-87	VIP TRAVEL AGENCY	760.00	12
28-Jun-87	THORNTON, RUFUS	197.87	14
28-Jun-87	JONES, EVERETT	328.83	12
19-Jul-87	ALLEN, GEORGE	707.00	13
19-Jul-87	BELL, EDWARD	797.38	14
19-Jul-87	VIP TRAVEL AGENCY	348.00	14
02-Aug-87	ALLEN, GEORGE	1,331.50	13
02-Aug-87	THORNTON, RUFUS	429.30	14
02-Aug-87	ALLEN, GEORGE	1,165.52	13
16-Aug-87	THORNTON, RUFUS	615.41	12
16-Aug-87	VIP TRAVEL AGENCY	298.25	12
16-Aug-87	ALLEN, GEORGE	1,026.45	13
16-Aug-87	VIP TRAVEL AGENCY	298.25	17
16-Aug-87	THOMAS, KENNETH	267.41	12
16-Aug-87	THOMAS, KENNETH	267.42	17
16-Aug-87	VIP TRAVEL AGENCY	298.25	17
16-Aug-87	VIP TRAVEL AGENCY	298.25	17
16-Aug-87	JONES, EVERETT	241.62	12
16-Aug-87	VIP TRAVEL AGENCY	298.25	12
16-Aug-87	JONES, EVERETT	241.62	17
16-Aug-87	VIP TRAVEL AGENCY	298.25	17
16-Aug-87	ALLEN, GEORGE	1,026.95	13
16-Aug-87	VIP TRAVEL AGENCY	298.25	12
16-Aug-87	VIP TRAVEL AGENCY	298.25	12
30-Aug-87	ALLEN, GEORGE	202.62	13
13-Sep-87	CATLIN, BLAIRE	697.61	10
13-Sep-87	CATLIN, BLAIRE	697.62	17
13-Sep-87	VIP TRAVEL AGENCY	224.00	17
13-Sep-87	VIP TRAVEL AGENCY	224.00	12
13-Sep-87	JOHNSON, ALFRED	822.00	10
13-Sep-87	VIP TRAVEL AGENCY	364.00	11
13-Sep-87	CATLIN, BLAIRE	697.61	12
13-Sep-87	JOHNSON, ALFRED	1,036.25	12
13-Sep-87	VIP TRAVEL AGENCY	352.00	12
13-Sep-87	JOHNSON, ALFRED	821.99	17
13-Sep-87	ALLEN, GEORGE	3,083.65	13
13-Sep-87	ELLIS, DONALD	1,266.60	12
27-Sep-87	VIP TRAVEL AGENCY	563.00	13
27-Sep-87	THORNTON, RUFUS	435.57	12
27-Sep-87	VIP TRAVEL AGENCY	239.00	12
27-Sep-87	JONES, EVERETT	261.80	12
27-Sep-87	VIP TRAVEL AGENCY	225.00	17
27-Sep-87	JONES, EVERETT	261.81	17
27-Sep-87	VIP TRAVEL AGENCY	225.00	12
27-Sep-87	VIP TRAVEL AGENCY	182.00	12
27-Sep-87	VIP TRAVEL AGENCY	224.00	17
27-Sep-87	VIP TRAVEL AGENCY	239.00	17
27-Sep-87	VIP TRAVEL AGENCY	224.00	12
27-Sep-87	VIP TRAVEL AGENCY	182.00	17
27-Sep-87	VIP TRAVEL AGENCY	3,661.20	13
27-Sep-87	VIP TRAVEL AGENCY	149.87	13

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
11-Oct-87	ALLEN, GEORGE	1,216.20	13
11-Oct-87	ELLIS, DONALD	689.57	10
11-Oct-87	VIP TRAVEL AGENCY	963.00	10
11-Oct-87	THORNTON, RUFUS	380.78	12
11-Oct-87	ELLIS, DONALD	915.40	12
11-Oct-87	JONES, EVERETT	160.07	17
11-Oct-87	FOURNEY, GARY	434.98	13
11-Oct-87	BELL, EDWARD	423.60	12
25-Oct-87	VIP TRAVEL AGENCY	478.00	10
25-Oct-87	THORNTON, RUFUS	260.58	19
25-Oct-87	VIP TRAVEL AGENCY	607.00	19
25-Oct-87	VIP TRAVEL AGENCY	609.00	19
25-Oct-87	CATLIN, BLAIRE	505.16	12
25-Oct-87	ALLEN, GEORGE	3,561.40	13
25-Oct-87	CATLIN, BLAIRE	505.15	17
08-Nov-87	ALLEN, GEORGE	1,866.45	13
08-Nov-87	THORNTON, RUFUS	517.75	19
08-Nov-87	ELLIS, DONALD	706.88	10
08-Nov-87	JOHNSON, ALFRED	916.70	12
08-Nov-87	BELL, EDWARD	256.81	19
08-Nov-87	JOHNSON, ALFRED	1,879.63	12
08-Nov-87	JOHNSON, ALFRED	1,879.62	17
22-Nov-87	BELL, EDWARD	411.97	19
22-Nov-87	VIP TRAVEL AGENCY	378.00	13
22-Nov-87	VIP TRAVEL AGENCY	934.00	19
22-Nov-87		(117.25)	12
22-Nov-87	ALLEN, GEORGE	2,490.55	13
22-Nov-87	VIP TRAVEL AGENCY	358.00	13
22-Nov-87	VIP TRAVEL AGENCY	358.00	13
22-Nov-87	THORNTON, RUFUS	1,154.76	13
22-Nov-87		(117.25)	17
02-Dec-87	VIP TRAVEL AGENCY	(364.00)	11
06-Dec-87	ELLIS, DONALD	1,757.14	13
06-Dec-87	JOHNSON, ALFRED	974.12	8
06-Dec-87	JOHNSON, ALFRED	131.38	12
06-Dec-87	JOHNSON, ALFRED	561.69	10
06-Dec-87	JOHNSON, ALFRED	561.68	16
06-Dec-87	JOHNSON, ALFRED	1,772.17	9
06-Dec-87	ALLEN, GEORGE	1,088.70	13
06-Dec-87	ELLIS, DONALD	753.16	13
20-Dec-87	VIP TRAVEL AGENCY	734.00	13
20-Dec-87	VIP TRAVEL AGENCY	988.00	19
20-Dec-87	VIP TRAVEL AGENCY	428.00	19
20-Dec-87		(576.00)	19
20-Dec-87	ELLIS, DONALD	1,660.60	13
20-Dec-87	VIP TRAVEL AGENCY	734.00	13
20-Dec-87	ALLEN, GEORGE	2,177.45	13
20-Dec-87	BELL, EDWARD	211.42	19
20-Dec-87	ALLEN, GEORGE	1,088.45	13
20-Dec-87	VIP TRAVEL AGENCY	189.00	12
20-Dec-87	VIP TRAVEL AGENCY	189.00	17
03-Jan-88	AIRPORT WHEELS	43.12	8
03-Jan-88	BELL, EDWARD	432.81	19
03-Jan-88	BELL, EDWARD	321.96	19
03-Jan-88	JOHNSON, ALFRED	117.58	9
03-Jan-88	JOHNSON, ALFRED	749.66	12
03-Jan-88	THORNTON, RUFUS	843.33	13
03-Jan-88	AIRPORT WHEELS	43.13	9
03-Jan-88	JONES, EVERETT	501.75	17
03-Jan-88	JOHNSON, ALFRED	867.23	16
03-Jan-88	JONES, EVERETT	501.75	12
03-Jan-88	VIP TRAVEL AGENCY	564.00	19
03-Jan-88	ALLEN, GEORGE	1,869.20	13
03-Jan-88	ELLIS, DONALD	(734.00)	13
03-Jan-88	JOHNSON, ALFRED	867.24	10
17-Jan-88	ALLEN, GEORGE	2,308.84	13
17-Jan-88	ALLEN, GEORGE	4,388.05	13
31-Jan-88	ALLEN, GEORGE	1,349.80	13
31-Jan-88	ALLEN, GEORGE	1,096.90	13
31-Jan-88	ELLIS, DONALD	181.43	12
31-Jan-88		696.75	8

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
14-Feb-88	VIP TRAVEL AGENCY	(479.00)	19
14-Feb-88	VIP TRAVEL AGENCY	(150.33)	10
14-Feb-88	VIP TRAVEL AGENCY	(244.84)	17
14-Feb-88	ALLEN, GEORGE	1,094.85	13
14-Feb-88	JOHNSON, ALFRED	1,363.38	10
14-Feb-88	JOHNSON, ALFRED	1,040.61	12
28-Feb-88	VIP TRAVEL AGENCY	390.00	9
28-Feb-88	ALLEN, GEORGE	1,087.45	13
28-Feb-88	ALLEN, GEORGE	1,090.60	13
13-Mar-88	BELL, EDWARD	282.56	19
13-Mar-88	JONES, EVERETT	189.06	12
13-Mar-88	ALLEN, GEORGE	1,087.95	13
13-Mar-88	JONES, EVERETT	189.09	17
13-Mar-88	ALLEN, GEORGE	1,088.70	13
13-Mar-88	THORNTON, RUFUS	1,207.13	9
27-Mar-88	VIP TRAVEL AGENCY	684.00	19
27-Mar-88	VIP TRAVEL AGENCY	224.50	17
27-Mar-88	VIP TRAVEL AGENCY	90.00	12
27-Mar-88	JOHNSON, ALFRED	60.10	8
27-Mar-88	VIP TRAVEL AGENCY	224.50	12
27-Mar-88	JOHNSON, ALFRED	168.97	17
27-Mar-88	VIP TRAVEL AGENCY	667.00	13
27-Mar-88	ALLEN, GEORGE	2,732.65	13
27-Mar-88	BELL, EDWARD	595.92	19
27-Mar-88	VIP TRAVEL AGENCY	90.00	17
10-Apr-88	JONES, EVERETT	316.65	17
10-Apr-88	JONES, EVERETT	316.60	12
24-Apr-88	VIP TRAVEL AGENCY	1,005.00	23
24-Apr-88	VIP TRAVEL AGENCY	1,254.25	12
24-Apr-88	THORNTON, RUFUS	229.95	23
24-Apr-88	VIP TRAVEL AGENCY	145.75	17
08-May-88	VIP TRAVEL AGENCY	390.00	18
08-May-88	ELLIS, DONALD	345.09	12
08-May-88	THORNTON, RUFUS	692.21	9
08-May-88	BELL, EDWARD	679.79	12
08-May-88	ELLIS, DONALD	753.04	13
08-May-88	ELLIS, DONALD	398.54	23
22-May-88	VIP TRAVEL AGENCY	616.00	9
22-May-88	VIP TRAVEL AGENCY	616.00	13
22-May-88	VIP TRAVEL AGENCY	2,320.00	13
22-May-88	BELL, EDWARD	202.14	9
22-May-88	BELL, EDWARD	1,018.73	10
22-May-88	ELLIS, DONALD	251.53	13
22-May-88	THORNTON, RUFUS	242.38	13
22-May-88	VIP TRAVEL AGENCY	616.00	9
22-May-88	ROSE, RALPH	1,116.94	9
05-Jun-88	BELL, EDWARD	413.07	19
05-Jun-88	VIP TRAVEL AGENCY	496.00	9
05-Jun-88	JONES, EVERETT	443.61	12
05-Jun-88	VIP TRAVEL AGENCY	556.00	13
05-Jun-88	VIP TRAVEL AGENCY	630.00	19
19-Jun-88	VIP TRAVEL AGENCY	1,623.00	12
19-Jun-88	ELLIS, DONALD	248.93	12
26-Jun-88	VIP TRAVEL AGENCY	1,800.00	12
26-Jun-88	JOHNSON, ERNEST	779.54	13
26-Jun-88	JOHNSON, ERNEST	2,083.20	13
26-Jun-88	HISE, WILLIAM	1,798.10	13
26-Jun-88	ELLIS, DONALD	625.17	12
26-Jun-88	JONES, EVERETT	591.96	12
03-Jul-88	ELLIS, DONALD	62.31	21
03-Jul-88	ELLIS, DONALD	62.31	22
03-Jul-88	THORNTON, RUFUS	12.50	21
17-Jul-88	JOHNSON, ERNEST	2,461.00	13
31-Jul-88	JOHNSON, ERNEST	1,239.84	13
31-Jul-88	THORNTON, RUFUS	326.55	12
31-Jul-88	JONES, EVERETT	813.95	12
31-Jul-88	JOHNSON, ERNEST	1,502.00	13
31-Jul-88	ELLIS, DONALD	598.26	12
31-Jul-88	BELL, EDWARD	725.99	12
14-Aug-88	JOHNSON, ERNEST	781.00	13
14-Aug-88	VIP TRAVEL AGENCY	800.00	12
14-Aug-88	JONES, EVERETT	356.97	12
14-Aug-88	VIP TRAVEL AGENCY	496.00	12

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
14-Aug-88	JOHNSON, ERNEST	780.00	13
14-Aug-88	VIP TRAVEL AGENCY	496.00	12
14-Aug-88	VIP TRAVEL AGENCY	496.00	12
14-Aug-88	VIP TRAVEL AGENCY	496.00	12
14-Aug-88	VIP TRAVEL AGENCY	900.00	12
28-Aug-88	JOHNSON, ERNEST	1,466.57	13
28-Aug-88	JOHNSON, ERNEST	780.00	13
11-Sep-88	JOHNSON, ERNEST	1,620.32	13
11-Sep-88	JOHNSON, ERNEST	3,069.18	13
11-Sep-88	BELL, EDWARD	502.76	19
11-Sep-88	VIP TRAVEL AGENCY	516.00	12
11-Sep-88	VIP TRAVEL AGENCY	476.00	19
11-Sep-88	VIP TRAVEL AGENCY	(90.00)	12
25-Sep-88	ROSE, RALPH	1,481.87	9
25-Sep-88	JOHNSON, ERNEST	1,389.11	13
25-Sep-88	JOHNSON, ERNEST	783.20	13
25-Sep-88	VIP TRAVEL AGENCY	496.00	24
25-Sep-88	ROSE, RALPH	1,166.74	11
25-Sep-88	ROSE, RALPH	450.55	12
25-Sep-88	ELLIS, DONALD	92.19	12
09-Oct-88	ELLIS, DONALD	246.01	24
09-Oct-88	JOHNSON, ERNEST	1,139.44	13
09-Oct-88	JOHNSON, ERNEST	781.00	13
09-Oct-88	VIP TRAVEL AGENCY	910.00	11
23-Oct-88	JOHNSON, ERNEST	3,002.12	13
06-Nov-88	JOHNSON, ERNEST	845.15	13
06-Nov-88	ROSE, RALPH	5,276.46	8
06-Nov-88	THORNTON, RUFUS	291.30	12
06-Nov-88	JOHNSON, ERNEST	926.50	13
06-Nov-88	JONES, EVERETT	637.55	12
06-Nov-88	ELLIS, DONALD	368.00	12
06-Nov-88	BELL, EDWARD	650.13	12
06-Nov-88	JOHNSON, ERNEST	2,794.52	13
20-Nov-88	VIP TRAVEL AGENCY	694.00	12
20-Nov-88	VIP TRAVEL AGENCY	351.00	25
20-Nov-88	VIP TRAVEL AGENCY	172.33	9
20-Nov-88	VIP TRAVEL AGENCY	271.00	9
20-Nov-88	JOHNSON, ERNEST	826.43	13
20-Nov-88	VIP TRAVEL AGENCY	488.00	12
20-Nov-88	VIP TRAVEL AGENCY	694.00	12
04-Dec-88	JOHNSON, ERNEST	4,075.88	13
18-Dec-88	JOHNSON, ERNEST	3,826.48	13
18-Dec-88	VIP TRAVEL AGENCY	369.00	24
18-Dec-88	THORNTON, RUFUS	20.50	24
18-Dec-88	ROSE, RALPH	225.91	21
18-Dec-88	ELLIS, DONALD	72.47	24
18-Dec-88	JOHNSON, ERNEST	789.40	13
18-Dec-88	MCGEE, MARVIN	10.00	12
18-Dec-88	VIP TRAVEL AGENCY	369.00	24
01-Jan-89	JOHNSON, ERNEST	3,578.06	13
01-Jan-89	JOHNSON, ERNEST	790.00	13
01-Jan-89	HISE, WILLIAM	1,489.91	13
01-Jan-89	JOHNSON, ERNEST	817.98	13
01-Jan-89	ROSE, RALPH	91.87	24
01-Jan-89	ELLIS, DONALD	333.84	12
01-Jan-89	VIP TRAVEL AGENCY	460.00	12
15-Jan-89	JOHNSON, ERNEST	2,295.68	13
15-Jan-89	VIP TRAVEL AGENCY	370.50	24
15-Jan-89	THORNTON, RUFUS	77.55	24
29-Jan-89	JOHNSON, ERNEST	3,320.37	13
29-Jan-89		(277.00)	13
29-Jan-89		(277.00)	19
12-Feb-89	ROSE, RALPH	200.83	21
12-Feb-89	JOHNSON, ERNEST	954.71	13
12-Feb-89	JOHNSON, ERNEST	1,151.00	13
12-Mar-89	JOHNSON, ERNEST	1,649.65	13
12-Mar-89	JOHNSON, ERNEST	932.25	13
12-Mar-89	BELL, EDWARD	84.65	12
12-Mar-89	JOHNSON, ERNEST	3,646.75	13
12-Mar-89	ELLIS, DONALD	118.95	12
26-Mar-89	ROSEN, MAX	258.80	13
26-Mar-89	JOHNSON, ERNEST	1,546.72	13
26-Mar-89	ELLIS, DONALD	371.15	12

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
26-Mar-89	BELL, EDWARD	635.30	19
26-Mar-89	ELLIS, DONALD	376.44	12
26-Mar-89	BELL, EDWARD	681.10	12
29-Mar-89	THORNTON, RUFUS	101.55	12
29-Mar-89	THORNTON, RUFUS	165.83	12
09-Apr-89	JONES, EVERETT	988.97	12
09-Apr-89	JOHNSON, ERNEST	808.00	13
09-Apr-89	JOHNSON, ERNEST	1,007.49	13
09-Apr-89	JOHNSON, ERNEST	3,632.91	13
09-Apr-89	ROSE, RALPH	205.64	21
23-Apr-89	VIP TRAVEL AGENCY	439.00	12
23-Apr-89	JOHNSON, ERNEST	788.50	13
23-Apr-89	JOHNSON, ERNEST	3,074.85	13
23-Apr-89	VIP TRAVEL AGENCY	440.00	12
23-Apr-89	VIP TRAVEL AGENCY	440.00	12
23-Apr-89	VIP TRAVEL AGENCY	456.00	12
23-Apr-89	JOHNSON, ERNEST	790.25	13
23-Apr-89	VIP TRAVEL AGENCY	520.00	19
23-Apr-89	ROSE, RALPH	201.86	21
23-Apr-89	VIP TRAVEL AGENCY	520.00	12
23-Apr-89	VIP TRAVEL AGENCY	662.00	12
23-Apr-89	VIP TRAVEL AGENCY	440.50	13
07-May-89	THORNTON, RUFUS	177.75	12
07-May-89	JOHNSON, ERNEST	1,805.04	13
07-May-89	ELLIS, DONALD	350.16	12
07-May-89	JOHNSON, ERNEST	1,600.03	13
21-May-89	JOHNSON, ERNEST	3,105.00	13
21-May-89	JOHNSON, ERNEST	787.41	13
04-Jun-89	ELLIS, DONALD	770.85	12
04-Jun-89	VIP TRAVEL AGENCY	662.00	12
04-Jun-89	ROSE, RALPH	406.04	24
04-Jun-89	JOHNSON, ERNEST	1,205.00	13
04-Jun-89	JOHNSON, ERNEST	781.00	13
04-Jun-89	VIP TRAVEL AGENCY	662.00	12
18-Jun-89	JOHNSON, ERNEST	794.15	13
18-Jun-89	JOHNSON, ERNEST	2,035.01	13
25-Jun-89	JOHNSON, ERNEST	1,000.00	13
25-Jun-89	VIP TRAVEL AGENCY	127.90	13
25-Jun-89	ROSE, RALPH	4,668.05	13
25-Jun-89	ROSE, RALPH	1,371.55	13
25-Jun-89	VIP TRAVEL AGENCY	540.00	12
16-Jul-89	JOHNSON, ERNEST	522.56	13
30-Jul-89	JOHNSON, ERNEST	906.65	13
30-Jul-89	VIP TRAVEL AGENCY	520.00	12
30-Jul-89	ROSE, RALPH	105.15	13
30-Jul-89	ROSE, RALPH	5.40	22
13-Aug-89	JOHNSON, ERNEST	824.58	13
13-Aug-89	JOHNSON, ERNEST	784.00	13
13-Aug-89	ELLIS, DONALD	329.48	12
27-Aug-89	BELL, EDWARD	459.89	19
27-Aug-89	JOHNSON, ERNEST	5,032.24	13
27-Aug-89	VIP TRAVEL AGENCY	842.00	22
27-Aug-89	THORNTON, RUFUS	279.00	22
27-Aug-89	THORNTON, RUFUS	288.39	21
27-Aug-89	VIP TRAVEL AGENCY	842.00	21
10-Sep-89	JOHNSON, ERNEST	851.58	13
10-Sep-89	ROSE, RALPH	400.00	13
10-Sep-89	JOHNSON, ERNEST	770.00	13
10-Sep-89	JOHNSON, ERNEST	780.00	13
10-Sep-89	VIP TRAVEL AGENCY	478.00	19
24-Sep-89	JOHNSON, ERNEST	807.68	13
08-Oct-89	JOHNSON, ERNEST	780.50	13
08-Oct-89	JOHNSON, ERNEST	780.00	13
08-Oct-89	JOHNSON, ERNEST	807.68	13
08-Oct-89	JOHNSON, ERNEST	1,893.21	13
08-Oct-89	JOHNSON, ERNEST	3,937.08	13
08-Oct-89	VIP TRAVEL AGENCY	1,214.00	13
22-Oct-89	JOHNSON, ERNEST	780.00	13
22-Oct-89	VIP TRAVEL AGENCY	787.00	12
22-Oct-89	VIP TRAVEL AGENCY	787.00	12
22-Oct-89	ELLIS, DONALD	524.98	12
05-Nov-89	ELLIS, DONALD	516.05	12
05-Nov-89	VIP TRAVEL AGENCY	1,389.00	12

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
05-Nov-89	VIP TRAVEL AGENCY	581.00	12
05-Nov-89	JONES, EVERETT	317.56	12
05-Nov-89	JOHNSON, ERNEST	782.00	13
03-Dec-89	ROSE, RALPH	5,257.59	27
17-Dec-89	ELLIS, DONALD	516.83	12
17-Dec-89	JONES, EVERETT	340.05	18
17-Dec-89	VIP TRAVEL AGENCY	956.00	12
17-Dec-89	VIP TRAVEL AGENCY	454.00	12
17-Dec-89	JOHNSON, ERNEST	2,370.25	13
31-Dec-89	JOHNSON, ERNEST	(780.00)	13
31-Dec-89	ELLIS, DONALD	194.05	12
31-Dec-89	JOHNSON, ERNEST	(807.68)	13
31-Dec-89	ROSE, RALPH	236.47	21
31-Dec-89	VIP TRAVEL AGENCY	320.50	12
31-Dec-89	JOHNSON, ERNEST	7,295.66	13
14-Jan-90	JOHNSON, ERNEST	1,074.63	13
14-Jan-90	JOHNSON, ERNEST	2,679.62	13
14-Jan-90	THORNTON, RUFUS	87.66	9
14-Jan-90	JOHNSON, ERNEST	531.32	13
28-Jan-90	JOHNSON, ERNEST	539.75	13
28-Jan-90	THORNTON, RUFUS	87.66	9
28-Jan-90	JOHNSON, ERNEST	532.95	13
28-Jan-90	MC GEE, MARVIN	42.00	12
11-Feb-90	UNIGLOBE DIXIELAND TRAVEL	275.00	22
11-Feb-90	UNIGLOBE DIXIELAND TRAVEL	275.00	21
11-Feb-90	JOHNSON, ERNEST	234.17	13
11-Feb-90	JOHNSON, ERNEST	526.00	13
21-Feb-90	VIP TRAVEL AGENCY	69.00	22
25-Feb-90	ELLIS, DONALD	262.50	22
25-Feb-90	ELLIS, DONALD	389.27	12
25-Feb-90	ELLIS, DONALD	65.18	22
25-Feb-90	VIP TRAVEL AGENCY	69.00	21
25-Feb-90	THORNTON, RUFUS	175.00	22
25-Feb-90	JOHNSON, ERNEST	2,083.65	13
25-Feb-90	VIP TRAVEL AGENCY	275.00	12
25-Feb-90	VIP TRAVEL AGENCY	550.00	12
25-Feb-90	ELLIS, DONALD	65.18	21
25-Feb-90	THORNTON, RUFUS	180.59	21
25-Feb-90	ELLIS, DONALD	262.49	21
25-Feb-90	JOHNSON, ERNEST	3,560.77	13
25-Feb-90	JONES, EVERETT	630.45	12
11-Mar-90	ROSE, RALPH	99.42	22
11-Mar-90	ELLIS, DONALD	46.35	21
11-Mar-90	JOHNSON, ERNEST	1,233.66	13
11-Mar-90	ELLIS, DONALD	46.35	22
11-Mar-90	JOHNSON, ERNEST	528.80	13
25-Mar-90	VIP TRAVEL AGENCY	359.17	21
25-Mar-90	VIP TRAVEL AGENCY	359.17	22
25-Mar-90	THORNTON, RUFUS	199.53	21
25-Mar-90	THORNTON, RUFUS	199.53	22
25-Mar-90	VIP TRAVEL AGENCY	359.17	21
25-Mar-90	VIP TRAVEL AGENCY	359.17	22
25-Mar-90	ELLIS, DONALD	282.77	22
25-Mar-90	ELLIS, DONALD	282.77	21
08-Apr-90	MC GEE, MARVIN	151.20	12
08-Apr-90	JOHNSON, ERNEST	534.81	13
22-Apr-90	MC GEE, MARVIN	58.80	12
22-Apr-90	JOHNSON, ERNEST	107.26	13
22-Apr-90	JOHNSON, ERNEST	2,639.46	13
22-Apr-90	ROSE, RALPH	14.40	22
06-May-90	UNIGLOBE DIXIELAND TRAVEL	298.00	21
06-May-90	ELLIS, DONALD	88.24	12
06-May-90	JOHNSON, ERNEST	557.71	13
06-May-90	MC GEE, MARVIN	42.00	12
20-May-90	JOHNSON, ERNEST	1,522.48	13
20-May-90	JOHNSON, ERNEST	1,165.44	13
03-Jun-90	JOHNSON, ERNEST	1,217.87	13
03-Jun-90	JOHNSON, ERNEST	604.38	13
03-Jun-90	MC GEE, MARVIN	42.00	12
17-Jun-90	JOHNSON, ERNEST	587.55	13
17-Jun-90	RAS S/F CAR RENTAL	5,060.00	13
17-Jun-90	JOHNSON, ERNEST	1,655.72	13
24-Jun-90	JOHNSON, ERNEST	1,232.18	13

TIME RELATED TRAVEL

PERIOD ENDING	NAME	AMOUNT \$	TASK
24-Jun-90	JOHNSON, ERNEST	1,350.63	13
24-Jun-90	JOHNSON, ERNEST	835.01	13
24-Jun-90	ELLIS, DONALD	598.04	12
24-Jun-90	JOHNSON, ERNEST	583.55	13
24-Jun-90	UNIGLOBE DIXIELAND TRAVEL	825.00	12
24-Jun-90	UNIGLOBE DIXIELAND TRAVEL	825.00	12
24-Jun-90	JONES, EVERETT	407.21	12
24-Jun-90	RAS S/F CAR RENTAL	1,650.00	13
01-Jul-90	UNIGLOBE DIXIELAND TRAVEL	865.00	12
15-Jul-90	JONES, EVERETT	653.70	12
29-Jul-90	RAS S/F CAR RENTAL	1,705.00	13
29-Jul-90	CARLSON TRAVEL	684.00	12
12-Aug-90	UNIGLOBE DIXIELAND TRAVEL	684.00	12
12-Aug-90	JONES, EVERETT	793.74	12
12-Aug-90	ELLIS, DONALD	246.28	12
26-Aug-90	MCGEE, MARVIN	8.40	12
26-Aug-90	CARLSON TRAVEL	684.00	12
26-Aug-90	UNIGLOBE DIXIELAND TRAVEL	684.00	12
26-Aug-90	JONES, EVERETT	533.68	12
26-Aug-90	RAS S/F CAR RENTAL	1,705.00	13
09-Sep-90	UNIGLOBE DIXIELAND TRAVEL	1,524.59	22
09-Sep-90	ELLIS, DONALD	376.92	12
09-Sep-90	JOHNSON, ERNEST	654.45	13
23-Sep-90	ELLIS, DONALD	277.81	12
23-Sep-90	JOHNSON, ERNEST	599.90	13
23-Sep-90	CARLSON TRAVEL	1,440.00	12
23-Sep-90	BELL, EDWARD	3,771.82	22
23-Sep-90	ROSE, RALPH	568.10	12
23-Sep-90	CARLSON TRAVEL	514.00	12
07-Oct-90	JOHNSON, ERNEST	631.83	13
07-Oct-90	JOHNSON, ERNEST	588.58	13
07-Oct-90	ROSE, RALPH	27.60	21
07-Oct-90	RAS S/F CAR RENTAL	1,650.00	13
07-Oct-90	JOHNSON, ERNEST	1,600.60	13
07-Oct-90	BELL, EDWARD	(3,771.82)	22
07-Oct-90	JONES, EVERETT	697.66	12
21-Oct-90	JOHNSON, ERNEST	600.55	13
21-Oct-90	CARTER, JAMES	865.82	13
21-Oct-90	CARLSON TRAVEL	1,212.00	12
21-Oct-90	JOHNSON, ERNEST	81.65	13
21-Oct-90	RAS S/F CAR RENTAL	1,705.00	13
04-Nov-90	JOHNSON, ERNEST	3,300.53	13
04-Nov-90	JOURNAL ENTRY - GJ-56	9,244.14	22
04-Nov-90	CARTER, JAMES	853.00	13
04-Nov-90	CARTER, JAMES	860.57	13
04-Nov-90	JONES, EVERETT	725.02	12
18-Nov-90	CARTER, JAMES	1,074.90	13
18-Nov-90	CARTER, JAMES	853.50	13
18-Nov-90	JONES, EVERETT	707.50	12
18-Nov-90	CARTER, JAMES	1,069.68	13
02-Dec-90	RAS S/F CAR RENTAL	1,650.00	13
02-Dec-90	CARTER, JAMES	1,008.00	13
02-Dec-90	UNIGLOBE DIXIELAND TRAVEL	(375.36)	22
02-Dec-90	UNIGLOBE DIXIELAND TRAVEL	1,129.00	12
16-Dec-90	CARTER, JAMES	1,978.27	13
16-Dec-90	CARTER, JAMES	853.55	13
16-Dec-90	CARTER, JAMES	864.75	13
30-Dec-90	CARTER, JAMES	1,702.29	13
30-Dec-90	CARTER, JAMES	853.15	13
30-Dec-90	RAS S/F CAR RENTAL	1,705.00	13
13-Jan-91	CARTER, JAMES	384.56	13
27-Jan-91	CARTER, JAMES	1,083.01	13
27-Jan-91	RAS S/F CAR RENATAL	1,705.00	13
27-Jan-91	CARTER, JAMES	1,068.76	13
10-Feb-91	CARTER, JAMES	1,544.81	13
10-Feb-91	CARTER, JAMES	1,081.76	13
10-Feb-91	CARLSON TRAVEL	1,032.00	11
10-Feb-91	BELL, EDWARD	692.84	11
24-Feb-91	CARLSON TRAVEL	408.50	21
24-Feb-91	CARTER, JAMES	1,088.76	13
24-Feb-91	CARLSON TRAVEL	408.50	22
24-Feb-91	CARTER, JAMES	1,068.76	13
24-Feb-91	RAS S/F CAR RENTAL	1,540.00	13

TIME RELATED TRAVEL

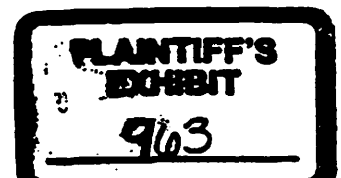
PERIOD ENDING	NAME	AMOUNT \$	TASK
10-Mar-91	BELL, EDWARD	1,212.40	22
10-Mar-91	BELL, EDWARD	2,257.40	21
10-Mar-91	CARTER, JAMES	1,704.17	13
10-Mar-91	CARTER, JAMES	1,088.51	13
10-Mar-91	CARLSON TRAVEL	1,023.00	12
24-Mar-91	CARLSON TRAVEL	863.00	21
24-Mar-91	CARTER, JAMES	2,075.75	13
24-Mar-91	CARLSON TRAVEL	863.00	22
24-Mar-91	JONES, EVERETT	669.95	12
24-Mar-91	BELL, EDWARD	1,397.95	21
07-Apr-91	BELL, EDWARD	8,671.06	21
07-Apr-91	ELLIS, DONALD	559.87	22
07-Apr-91	ELLIS, DONALD	559.88	21
07-Apr-91	THORNTON, RUFUS	664.38	21
07-Apr-91	THORNTON, RUFUS	664.38	22
07-Apr-91	CARTER, JAMES	230.70	13
05-May-91	SPRINGFIELD TRAVEL SERVICE	996.00	12
05-May-91	JONES, EVERETT	721.53	12
19-May-91	SPRINGFIELD TRAVEL SERVICE	992.00	11
19-May-91	ROSE, RALPH	519.82	13
19-May-91	BELL, EDWARD	602.33	11
19-May-91	ROSE, RALPH	1,089.65	13
02-Jun-91	SPRINGFIELD TRAVEL SERVICE	863.00	13
TOTALS		3631,562.09	

TIME-RELATED CONSULTANT COSTS

PERIOD	NAME	HOURS	AMOUNT \$
28-Aug-86 29-Aug-86	ASHLEY, RICHARD	8.0	224.00
02-Sep-86 03-Sep-86	ASHLEY, RICHARD	17.0	476.00
08-Sep-86 11-Sep-86	ASHLEY, RICHARD	28.2	791.00
15-Sep-86 18-Sep-86	ASHLEY, RICHARD	24.0	672.00
22-Sep-86 25-Sep-86	ASHLEY, RICHARD	30.5	861.00
30-Sep-86 03-Oct-86	ASHLEY, RICHARD	28.5	805.00
06-Oct-86 10-Oct-86	ASHLEY, RICHARD	16.0	448.00
13-Oct-86 16-Oct-86	ASHLEY, RICHARD	30.0	840.00
10-Nov-86 14-Nov-86	ASHLEY, RICHARD	34.5	1,057.00
17-Nov-86 21-Nov-86	ASHLEY, RICHARD	41.5	1,162.00
24-Nov-86 30-Nov-86	ASHLEY, RICHARD	50.0	1,400.00
01-Dec-86 06-Dec-86	ASHLEY, RICHARD	52.2	1,463.00
08-Dec-86 13-Dec-86	ASHLEY, RICHARD	45.0	1,267.00
15-Dec-86 21-Dec-86	ASHLEY, RICHARD	32.3	910.00
22-Dec-86 26-Dec-86	ASHLEY, RICHARD	27.0	756.00
29-Dec-86 03-Jan-87	ASHLEY, RICHARD	22.3	623.00
03-Jan-87 03-Jan-87	ASHLEY, RICHARD	4.0	112.00
05-Jan-87 11-Jan-87	ASHLEY, RICHARD	52.2	1,463.00
12-Jan-87 17-Jan-87	ASHLEY, RICHARD	46.2	1,295.00
19-Jan-87 24-Jan-87	ASHLEY, RICHARD	44.2	1,239.00
27-Jan-87 31-Jan-87	ASHLEY, RICHARD	35.3	994.00
01-Feb-87 07-Feb-87	ASHLEY, RICHARD	45.5	1,281.00
09-Feb-87 13-Feb-87	ASHLEY, RICHARD	41.2	1,155.00
16-Feb-87 20-Feb-87	ASHLEY, RICHARD	34.5	973.00
24-Feb-87 28-Feb-87	ASHLEY, RICHARD	32.5	917.00
02-Mar-87 08-Mar-87	ASHLEY, RICHARD	50.2	1,407.00
09-Mar-87 13-Mar-87	ASHLEY, RICHARD	41.3	1,162.00
16-Mar-87 21-Mar-87	ASHLEY, RICHARD	52.0	1,456.00
23-Mar-87 28-Mar-87	ASHLEY, RICHARD	44.0	1,232.00
30-Mar-87 04-Apr-87	ASHLEY, RICHARD	49.5	1,393.00
06-Apr-87 10-Apr-87	ASHLEY, RICHARD	32.5	917.00
16-Apr-87 18-Apr-87	ASHLEY, RICHARD	22.5	637.00
20-Apr-87 24-Apr-87	ASHLEY, RICHARD	22.5	630.00
27-Apr-87 01-May-87	ASHLEY, RICHARD	25.0	700.00
04-May-87 08-May-87	ASHLEY, RICHARD	40.5	1,134.00
11-May-87 15-May-87	ASHLEY, RICHARD	35.0	980.00
18-May-87 22-May-87	ASHLEY, RICHARD	40.8	1,141.00
26-May-87 29-May-87	ASHLEY, RICHARD	36.8	1,029.00
		1314.2	37,002.00

24-Oct-86 31-Oct-86	HELVIG, GLEN	43.5	1,087.50
03-Nov-86 07-Nov-86	HELVIG, GLEN	38.0	950.00
10-Nov-86 14-Nov-86	HELVIG, GLEN	40.0	1,000.00
17-Nov-86 21-Nov-86	HELVIG, GLEN	40.0	1,000.00
24-Nov-86 05-Dec-86	HELVIG, GLEN	64.0	1,600.00
06-Dec-86 12-Dec-86	HELVIG, GLEN	46.8	1,168.75
15-Dec-86 19-Dec-86	HELVIG, GLEN	40.0	1,000.00
22-Dec-86 26-Dec-86	HELVIG, GLEN	32.0	800.00
29-Dec-86 02-Jan-87	HELVIG, GLEN	32.0	800.00
05-Jan-87 09-Jan-87	HELVIG, GLEN	40.0	1,000.00
12-Jan-87 16-Jan-87	HELVIG, GLEN	40.0	1,000.00
20-Jan-87 30-Jan-87	HELVIG, GLEN	35.0	875.00
02-Feb-87 06-Feb-87	HELVIG, GLEN	40.0	1,000.00
09-Feb-87 13-Feb-87	HELVIG, GLEN	36.0	900.00
18-Feb-87 27-Feb-87	HELVIG, GLEN	43.5	1,087.50
02-Mar-87 06-Mar-87	HELVIG, GLEN	39.0	975.00
09-Mar-87 13-Mar-87	HELVIG, GLEN	40.0	1,000.00
16-Mar-87 20-Mar-87	HELVIG, GLEN	38.5	962.50
23-Mar-87 27-Mar-87	HELVIG, GLEN	40.0	1,000.00
30-Mar-87 03-Apr-87	HELVIG, GLEN	39.5	987.50
06-Apr-87 10-Apr-87	HELVIG, GLEN	40.0	1,000.00
13-Apr-87 17-Apr-87	HELVIG, GLEN	36.0	900.00
20-Apr-87 24-Apr-87	HELVIG, GLEN	40.0	1,000.00
27-Apr-87 01-May-87	HELVIG, GLEN	40.0	1,000.00
04-May-87 08-May-87	HELVIG, GLEN	40.0	1,000.00
11-May-87 15-May-87	HELVIG, GLEN	40.0	1,000.00
18-May-87 22-May-87	HELVIG, GLEN	40.0	1,000.00
26-May-87 29-May-87	HELVIG, GLEN	32.0	800.00
23-Nov-87 04-Dec-87	HELVIG, GLEN	63.5	1,587.50

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TIME-RELATED CONSULTANT COSTS

PERIOD	NAME	HOURS	AMOUNT \$
07-Dec-87 11-Dec-87	HELWIG, GLEN	38.0	950.00
14-Dec-87 18-Dec-87	HELWIG, GLEN	40.0	1,000.00
21-Dec-87 22-Dec-87	HELWIG, GLEN	12.0	300.00
06-Jan-88 15-Jan-88	HELWIG, GLEN	56.0	1,400.00
19-Jan-88 22-Jan-88	HELWIG, GLEN	32.0	800.00
25-Jan-88 29-Jan-88	HELWIG, GLEN	39.0	975.00
01-Feb-88 05-Feb-88	HELWIG, GLEN	37.5	937.50
08-Feb-88 12-Feb-88	HELWIG, GLEN	34.0	850.00
16-Feb-88 26-Feb-88	HELWIG, GLEN	31.5	787.50
29-Feb-88 04-Mar-88	HELWIG, GLEN	40.0	1,000.00
07-Mar-88 11-Mar-88	HELWIG, GLEN	40.0	1,000.00
14-Mar-88 18-Mar-88	HELWIG, GLEN	40.0	1,000.00
21-Mar-88 25-Mar-88	HELWIG, GLEN	36.5	912.50
28-Mar-88 01-Apr-88	HELWIG, GLEN	38.5	962.50
04-Apr-88 08-Apr-88	HELWIG, GLEN	36.5	912.50
11-Apr-88 15-Apr-88	HELWIG, GLEN	40.0	1,000.00
18-Apr-88 22-Apr-88	HELWIG, GLEN	40.0	1,000.00
25-Apr-88 29-Apr-88	HELWIG, GLEN	39.5	987.50
02-May-88 06-May-88	HELWIG, GLEN	39.0	975.00
09-May-88 20-May-88	HELWIG, GLEN	59.0	1,475.00
23-May-88 27-May-88	HELWIG, GLEN	40.0	1,000.00
31-May-88 03-Jun-88	HELWIG, GLEN	32.0	800.00
06-Jun-88 10-Jun-88	HELWIG, GLEN	40.0	1,000.00
13-Jun-88 17-Jun-88	HELWIG, GLEN	36.5	912.50
20-Jun-88 24-Jun-88	HELWIG, GLEN	40.0	1,000.00
27-Jun-88 01-Jul-88	HELWIG, GLEN	40.0	1,000.00
05-Jul-88 08-Jul-88	HELWIG, GLEN	32.0	800.00
11-Jul-88 15-Jul-88	HELWIG, GLEN	40.0	1,000.00
18-Jul-88 22-Jul-88	HELWIG, GLEN	40.0	1,000.00
25-Jul-88 29-Jul-88	HELWIG, GLEN	40.0	1,000.00
01-Aug-88 05-Aug-88	HELWIG, GLEN	40.0	1,000.00
16-Aug-88 19-Aug-88	HELWIG, GLEN	31.0	775.00
22-Aug-88 26-Aug-88	HELWIG, GLEN	40.0	1,000.00
29-Aug-88 02-Sep-88	HELWIG, GLEN	40.0	1,000.00
06-Sep-88 09-Sep-88	HELWIG, GLEN	32.0	800.00
12-Sep-88 16-Sep-88	HELWIG, GLEN	40.0	1,000.00
19-Sep-88 23-Sep-88	HELWIG, GLEN	40.0	1,000.00
26-Sep-88 30-Sep-88	HELWIG, GLEN	35.5	887.50
03-Oct-88 07-Oct-88	HELWIG, GLEN	40.0	1,000.00
10-Oct-88 14-Oct-88	HELWIG, GLEN	39.0	975.00
17-Oct-88 21-Oct-88	HELWIG, GLEN	40.0	1,000.00
24-Oct-88 28-Oct-88	HELWIG, GLEN	38.0	950.00
31-Oct-88 04-Nov-88	HELWIG, GLEN	40.0	1,000.00
07-Nov-88 11-Nov-88	HELWIG, GLEN	40.0	1,000.00
14-Nov-88 18-Nov-88	HELWIG, GLEN	38.5	962.50
21-Nov-88 23-Nov-88	HELWIG, GLEN	24.0	600.00
28-Nov-88 02-Dec-88	HELWIG, GLEN	36.0	900.00
05-Dec-88 09-Dec-88	HELWIG, GLEN	40.0	1,000.00
12-Dec-88 16-Dec-88	HELWIG, GLEN	38.0	950.00
19-Dec-88 23-Dec-88	HELWIG, GLEN	36.0	900.00
27-Dec-88 30-Dec-88	HELWIG, GLEN	28.8	718.75
03-Jan-89 05-Jan-89	HELWIG, GLEN	24.0	600.00
09-Jan-89 13-Jan-89	HELWIG, GLEN	40.0	1,000.00
17-Jan-89 18-Jan-89	HELWIG, GLEN	16.0	400.00
06-Feb-89 10-Feb-89	HELWIG, GLEN	40.0	1,000.00
13-Feb-89 17-Feb-89	HELWIG, GLEN	40.0	1,000.00
21-Feb-89 24-Feb-89	HELWIG, GLEN	32.0	800.00
27-Feb-89 03-Mar-89	HELWIG, GLEN	40.0	1,000.00
06-Mar-89 10-Mar-89	HELWIG, GLEN	28.0	700.00
16-Mar-89 17-Mar-89	HELWIG, GLEN	16.0	400.00
20-Mar-89 24-Mar-89	HELWIG, GLEN	40.0	1,000.00
27-Mar-89 31-Mar-89	HELWIG, GLEN	40.0	1,000.00
03-Apr-89 07-Apr-89	HELWIG, GLEN	38.5	962.50
10-Apr-89 14-Apr-89	HELWIG, GLEN	38.0	950.00
17-Apr-89 21-Apr-89	HELWIG, GLEN	37.5	937.50
01-May-89 05-May-89	HELWIG, GLEN	40.0	1,000.00
08-May-89 12-May-89	HELWIG, GLEN	40.0	1,000.00
15-May-89 19-May-89	HELWIG, GLEN	40.0	1,000.00
22-May-89 26-May-89	HELWIG, GLEN	40.0	1,000.00
30-May-89 02-Jun-89	HELWIG, GLEN	32.0	800.00
05-Jun-89 09-Jun-89	HELWIG, GLEN	40.0	1,000.00

TIME-RELATED CONSULTANT COSTS

PERIOD	NAME	HOURS	AMOUNT \$
12-Jun-89 16-Jun-89	HELWIG, GLEN	40.0	1,000.00
19-Jun-89 23-Jun-89	HELWIG, GLEN	38.5	962.50
26-Jun-89 28-Jun-89	HELWIG, GLEN	24.0	600.00
05-Jul-89 07-Jul-89	HELWIG, GLEN	20.0	500.00
10-Jul-89 14-Jul-89	HELWIG, GLEN	40.0	1,000.00
17-Jul-89 21-Jul-89	HELWIG, GLEN	40.0	1,000.00
24-Jul-89 28-Jul-89	HELWIG, GLEN	40.0	1,000.00
31-Jul-89 04-Aug-89	HELWIG, GLEN	40.0	1,000.00
07-Aug-89 11-Aug-89	HELWIG, GLEN	38.5	962.50
14-Aug-89 18-Aug-89	HELWIG, GLEN	40.0	1,000.00
21-Aug-89 25-Aug-89	HELWIG, GLEN	40.0	1,000.00
28-Aug-89 31-Aug-89	HELWIG, GLEN	32.0	800.00
05-Sep-89 08-Sep-89	HELWIG, GLEN	32.0	800.00
11-Sep-89 15-Sep-89	HELWIG, GLEN	40.0	1,000.00
18-Sep-89 22-Sep-89	HELWIG, GLEN	40.0	1,000.00
25-Sep-89 29-Sep-89	HELWIG, GLEN	40.0	1,000.00
02-Oct-89 06-Oct-89	HELWIG, GLEN	30.5	762.50
09-Oct-89 13-Oct-89	HELWIG, GLEN	40.0	1,000.00
16-Oct-89 20-Oct-89	HELWIG, GLEN	40.0	1,000.00
23-Oct-89 27-Oct-89	HELWIG, GLEN	40.0	1,000.00
30-Oct-89 03-Nov-89	HELWIG, GLEN	40.0	1,000.00
06-Nov-89 09-Nov-89	HELWIG, GLEN	32.0	800.00
13-Nov-89 17-Nov-89	HELWIG, GLEN	40.0	1,000.00
20-Nov-89 22-Nov-89	HELWIG, GLEN	24.0	600.00
27-Nov-89 01-Dec-89	HELWIG, GLEN	40.0	1,000.00
04-Dec-89 08-Dec-89	HELWIG, GLEN	35.5	887.50
11-Dec-89 15-Dec-89	HELWIG, GLEN	34.0	850.00
18-Dec-89 18-Dec-89	HELWIG, GLEN	8.0	200.00
04-Jan-90 05-Jan-90	HELWIG, GLEN	16.0	400.00
08-Jan-90 12-Jan-90	HELWIG, GLEN	39.0	975.00
16-Jan-90 19-Jan-90	HELWIG, GLEN	19.5	487.50
01-Feb-90 02-Feb-90	HELWIG, GLEN	16.0	400.00
05-Feb-90 09-Feb-90	HELWIG, GLEN	20.0	500.00
12-Feb-90 16-Feb-90	HELWIG, GLEN	16.0	400.00
20-Feb-90 23-Feb-90	HELWIG, GLEN	16.0	400.00
26-Feb-90 02-Mar-90	HELWIG, GLEN	20.0	500.00
05-Mar-90 09-Mar-90	HELWIG, GLEN	20.0	500.00
12-Mar-90 16-Mar-90	HELWIG, GLEN	28.0	700.00
19-Mar-90 23-Mar-90	HELWIG, GLEN	37.0	925.00
26-Mar-90 30-Mar-90	HELWIG, GLEN	40.0	1,000.00
		5,084.0	127,100.0
25-Sep-90 02-Nov-90	McGEE, MARVIN	19.0	760.00
03-Nov-90 08-Dec-90	McGEE, MARVIN	17.0	680.00
26-Dec-90 16-Feb-91	McGEE, MARVIN	21.0	840.00
18-Feb-91 03-Apr-91	McGEE, MARVIN	26.5	1,060.00
06-Apr-91 20-Apr-91	McGEE, MARVIN	18.0	720.00
		101.5	4,060.00
24-Mar-91 26-Mar-91	ROSE, RALPH	32.0	800.00
06-May-91 10-May-91	ROSE, RALPH	40.0	1,000.00
16-Apr-91 03-May-91	ROSE, RALPH	84.0	2,100.00
		156.0	3,900.00
14-Oct-85 25-Oct-85	THOMAS, KEN	80.0	2,160.00
28-Oct-85 01-Nov-85	THOMAS, KEN	40.0	1,080.00
04-Nov-85 15-Nov-85	THOMAS, KEN	80.0	2,160.00
18-Nov-85 02-Dec-85	THOMAS, KEN	96.0	2,592.00
06-Dec-85 13-Dec-85	THOMAS, KEN	96.0	2,592.00
16-Dec-85 31-Dec-85	THOMAS, KEN	80.0	2,160.00
02-Jan-86 15-Jan-86	THOMAS, KEN	91.0	2,457.00
16-Jan-86 02-Feb-86	THOMAS, KEN	88.0	2,376.00
03-Feb-86 18-Feb-86	THOMAS, KEN	88.0	2,376.00
19-Feb-86 05-Mar-86	THOMAS, KEN	95.0	2,565.00
10-Mar-86 24-Mar-86	THOMAS, KEN	88.5	2,389.50
25-Mar-86 08-Apr-86	THOMAS, KEN	88.0	2,376.00
09-Apr-86 23-Apr-86	THOMAS, KEN	82.0	2,214.00
24-Apr-86 09-May-86	THOMAS, KEN	77.0	2,079.00

TIME-RELATED CONSULTANT COSTS

PERIOD	NAME	HOURS	AMOUNT \$
12-May-86 27-May-86	THOMAS, KEN	94.0	2,538.00
28-May-86 11-Jun-86	THOMAS, KEN	88.0	2,376.00
12-Jun-86 26-Jun-86	THOMAS, KEN	87.0	2,349.00
27-Jun-86 15-Jul-86	THOMAS, KEN	89.0	2,403.00
16-Jul-86 31-Jul-86	THOMAS, KEN	88.0	2,376.00
04-Aug-86 18-Aug-86	THOMAS, KEN	88.0	2,376.00
19-Aug-86 04-Sep-86	THOMAS, KEN	88.0	2,376.00
05-Sep-86 05-Oct-86	THOMAS, KEN	186.0	5,022.00
13-Oct-86 27-Oct-86	THOMAS, KEN	89.5	2,416.50
28-Oct-86 11-Nov-86	THOMAS, KEN	90.0	2,430.00
12-Nov-86 26-Nov-86	THOMAS, KEN	93.0	2,511.00
01-Dec-86 12-Dec-86	THOMAS, KEN	93.0	2,511.00
15-Dec-86 31-Dec-86	THOMAS, KEN	76.0	2,052.00
02-Jan-87 16-Jan-87	THOMAS, KEN	90.0	2,430.00
20-Jan-87 04-Feb-87	THOMAS, KEN	91.0	2,457.00
05-Feb-87 20-Feb-87	THOMAS, KEN	80.0	2,160.00
24-Feb-87 10-Mar-87	THOMAS, KEN	85.0	2,295.00
11-Mar-87 25-Mar-87	THOMAS, KEN	96.0	2,592.00
26-Mar-87 10-Apr-87	THOMAS, KEN	81.0	2,187.00
13-Apr-87 27-Apr-87	THOMAS, KEN	85.0	2,295.00
28-Apr-87 12-May-87	THOMAS, KEN	89.0	2,403.00
13-May-87 28-May-87	THOMAS, KEN	88.0	2,376.00
29-May-87 12-Jun-87	THOMAS, KEN	88.0	2,376.00
15-Jun-87 19-Jun-87	THOMAS, KEN	40.0	1,080.00
22-Jun-87 29-Jun-87	THOMAS, KEN	42.0	1,190.70
30-Jun-87 07-Jul-87	THOMAS, KEN	42.0	1,190.70
08-Jul-87 15-Jul-87	THOMAS, KEN	48.0	1,360.80
16-Jul-87 24-Jul-87	THOMAS, KEN	48.0	1,360.80
27-Jul-87 31-Jul-87	THOMAS, KEN	36.0	1,020.60
03-Aug-87 10-Aug-87	THOMAS, KEN	53.0	1,502.55
11-Aug-87 26-Aug-87	THOMAS, KEN	96.0	2,721.60
27-Aug-87 04-Sep-87	THOMAS, KEN	48.0	1,360.80
08-Sep-87 15-Sep-87	THOMAS, KEN	48.0	1,360.80
16-Sep-87 23-Sep-87	THOMAS, KEN	48.0	1,360.80
24-Sep-87 01-Oct-87	THOMAS, KEN	48.0	1,360.80
02-Oct-87 09-Oct-87	THOMAS, KEN	48.0	1,360.80
12-Oct-87 19-Oct-87	THOMAS, KEN	48.0	1,360.80
20-Oct-87 27-Oct-87	THOMAS, KEN	48.0	1,360.80
28-Oct-87 06-Nov-87	THOMAS, KEN	64.0	1,814.40
09-Nov-87 20-Nov-87	THOMAS, KEN	71.0	2,012.85
23-Nov-87 04-Dec-87	THOMAS, KEN	64.0	1,814.40
07-Dec-87 15-Dec-87	THOMAS, KEN	56.0	1,587.60
16-Dec-87 24-Dec-87	THOMAS, KEN	55.0	1,559.25
28-Dec-87 04-Jan-88	THOMAS, KEN	41.0	1,162.35
05-Jan-88 15-Jan-88	THOMAS, KEN	74.0	2,097.90
19-Jan-88 29-Jan-88	THOMAS, KEN	65.0	1,842.75
01-Feb-88 05-Feb-88	THOMAS, KEN	40.0	1,134.00
08-Feb-88 09-Feb-88	THOMAS, KEN	47.5	1,346.63
17-Feb-88 25-Feb-88	THOMAS, KEN	56.0	1,587.60
26-Feb-88 04-Mar-88	THOMAS, KEN	48.0	1,360.80
		4,714.5	129,157.88
TOTAL		11,370.2	\$301,219.88

TIME-RELATED CONTRACT LABOR

WEEK ENDING	HOURS	AMOUNT (\$)
23-Nov-87	13.50	226.53
07-Dec-87	40.00	671.20
14-Dec-87	40.00	671.20
21-Dec-87	32.00	536.96
28-Dec-87	32.00	536.96
04-Jan-88	36.00	604.08
11-Jan-88	38.00	637.64
19-Jan-88	32.00	536.96
25-Jan-88	40.00	671.20
01-Feb-88	40.00	671.20
08-Feb-88	40.00	671.20
15-Feb-88	40.00	671.20
22-Feb-88	40.00	671.20
29-Feb-88	40.00	671.20
11-Mar-88	40.00	671.20
18-Mar-88	40.00	671.20
25-Mar-88	40.00	671.20
01-Apr-88	40.00	671.20
08-Apr-88	40.00	671.20
15-Apr-88	40.00	671.20
22-Apr-88	40.00	671.20
06-May-88	40.00	671.20
13-May-88	35.00	587.30
20-May-88	40.00	671.20
26-May-88	29.00	486.62
03-Jun-88	30.00	503.40
10-Jun-88	40.00	671.20
17-Jun-88	21.00	352.38
24-Jun-88	36.00	604.08
01-Jul-88	40.00	671.20
08-Jul-88	40.00	671.20
15-Jul-88	40.00	671.20
22-Jul-88	39.00	654.42
19-Aug-88	39.50	662.81
26-Aug-88	37.00	620.86
02-Sep-88	36.50	619.77
09-Sep-88	37.75	590.06
16-Sep-88	36.00	611.28
23-Sep-88	40.00	679.20
30-Sep-88	37.00	628.26
07-Oct-88	16.00	271.68
13-Oct-88	32.00	543.36
21-Oct-88	35.00	419.28
28-Oct-88	36.25	633.29
04-Nov-88	36.50	619.77
11-Nov-88	32.00	543.30
18-Nov-88	40.00	679.20
22-Nov-88	16.00	279.52
02-Dec-88	40.00	698.80
09-Dec-88	36.50	637.66
16-Dec-88	36.50	637.66
23-Dec-88	17.00	296.99
30-Dec-88	34.00	593.98
06-Jan-89	32.00	559.04
13-Jan-89	39.50	690.07
19-Jan-89	31.00	541.57
27-Jan-89	40.00	698.80
03-Feb-89	40.00	698.80
10-Feb-89	16.00	279.52
24-Feb-89	40.00	698.80
03-Mar-89	40.00	698.80
10-Mar-89	40.00	698.80
17-Mar-89	38.50	672.60
24-Mar-89	36.00	628.92
31-Mar-89	40.00	698.80
07-Apr-89	34.50	602.72
14-Apr-89	40.00	698.80

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PLAINTIFF'S
EXHIBIT

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TIME-RELATED CONTRACT LABOR

WEEK ENDING	HOURS	AMOUNT (\$)
21-Apr-89	24.00	419.28
28-Apr-89	34.50	602.72
03-May-89	24.75	432.38
12-May-89	40.00	698.80
18-May-89	37.75	659.49
26-May-89	38.50	672.60
02-Jun-89	31.00	541.57
09-Jun-89	40.00	698.80
16-Jun-89	40.00	698.80
23-Jun-89	40.00	698.80
29-Jun-89	32.00	559.04
07-Jul-89	22.00	384.34
14-Jul-89	36.50	637.66
21-Jul-89	23.00	401.81
28-Jul-89	32.00	559.04
04-Aug-89	39.00	681.33
11-Aug-89	39.00	681.33
18-Aug-89	40.00	698.80
25-Aug-89	40.00	698.80
30-Aug-89	14.00	244.58
08-Sep-89	32.00	559.04
15-Sep-89	37.00	646.39
22-Sep-89	39.00	681.33
28-Sep-89	24.00	419.28
06-Oct-89	28.50	497.90
13-Oct-89	36.50	637.66
20-Oct-89	32.00	559.04
27-Oct-89	40.00	698.80
03-Nov-89	39.00	681.33
09-Nov-89	32.00	559.04
17-Nov-89	38.00	663.86
22-Nov-89	24.00	419.28
01-Dec-89	32.00	559.04
08-Dec-89	35.00	611.45
15-Dec-89	38.00	663.86
22-Dec-89	33.00	576.51
29-Dec-89	30.00	524.10
05-Jan-90	32.00	559.04
10-Jan-90	24.00	419.28
19-Jan-90	32.00	559.04
26-Jan-90	39.00	681.33
02-Feb-90	29.00	506.63
09-Feb-90	30.00	524.10
16-Feb-90	36.25	633.29
23-Feb-90	31.25	545.94
01-Mar-90	28.00	489.16
09-Mar-90	29.00	506.63
16-Mar-90	26.00	454.22
23-Mar-90	39.00	681.33
30-Mar-90	38.00	663.86
05-Apr-90	31.50	550.31
13-Apr-90	37.00	646.39
20-Apr-90	37.00	646.39
27-Apr-90	30.00	524.10
04-May-90	38.00	663.89
11-May-90	40.00	698.80
18-May-90	35.00	611.45
25-May-90	39.00	681.33
01-Jun-90	16.50	288.25
08-Jun-90	33.00	576.51
15-Jun-90	23.00	401.81
22-Jun-90	27.50	480.43
01-Jul-90	31.00	541.57
06-Jul-90	24.00	419.28
13-Jul-90	38.00	663.86
20-Jul-90	35.50	620.19
27-Jul-90	40.00	698.80

TIME-RELATED CONTRACT LABOR

WEEK ENDING	HOURS	AMOUNT (\$)
03-Aug-90	37.50	655.13
10-Aug-90	37.50	655.13
17-Aug-90	37.00	646.39
24-Aug-90	33.00	576.51
DIANNE BARCHES' TOTAL	4,745.00	81,596.55
03-Feb-91	30.00	432.00
10-Feb-91	37.00	533.00
17-Feb-91	31.75	457.00
24-Feb-91	32.00	460.00
03-Mar-91	40.00	576.00
10-Mar-91	40.00	576.00
17-Mar-91	8.00	115.00
EXECUTIVE SECRETARY TOTAL	218.75	3,149.00
TOTAL	4,963.75	\$84,745.55

TIME RELATED OTHER DIRECT COSTS

DATE	TASK	VENDOR	AMOUNT
EQUIPMENT RENTAL			
17-Dec-89	9	GJ-83	(68.55)
08-Apr-90	21	CONTINENTAL RESOURCES (TMS UNITS)	96.46
25-Mar-90	21	CONTINENTAL RESOURCES (TMS UNITS)	135.66
22-Apr-90	21	CONTINENTAL RESOURCES (TMS UNITS)	96.46
08-Apr-90	21	CONTINENTAL RESOURCES (TMS UNITS)	119.53
08-Apr-90	22	CONTINENTAL RESOURCES (TMS UNITS)	119.53
08-Apr-90	22	CONTINENTAL RESOURCES (TMS UNITS)	96.46
28-Jan-90	22	CONTINENTAL RESOURCES (TMS UNITS)	192.92
22-Apr-90	22	CONTINENTAL RESOURCES (TMS UNITS)	335.52
11-Mar-90	22	CONTINENTAL RESOURCES (TMS UNITS)	192.92
27-Aug-89	22	CONTINENTAL RESOURCES (TMS UNITS)	192.92
31-Dec-89	22	CONTINENTAL RESOURCES (TMS UNITS)	192.92
20-May-90	22	CONTINENTAL RESOURCES (TMS UNITS)	431.98
30-Jul-89	22	CONTINENTAL RESOURCES (TMS UNITS)	192.92
24-Jun-90	22	CONTINENTAL RESOURCES (TMS UNITS)	192.92
11-Mar-90	22	CONTINENTAL RESOURCES (TMS UNITS)	192.92
12-Aug-90	22	CONTINENTAL RESOURCES (TMS UNITS)	192.82
04-Jun-89	22	CONTINENTAL RESOURCES (TMS UNITS)	225.14
25-Mar-90	22	CONTINENTAL RESOURCES (TMS UNITS)	135.65
24-Sep-89	22	CONTINENTAL RESOURCES (TMS UNITS)	192.92
17-Dec-89	22	GJ-83	192.92
25-Jun-89	22	CONTINENTAL RESOURCES (TMS UNITS)	192.92
23-Sep-90	21	CONTINENTAL RESOURCES (TMS UNITS)	281.00
18-Nov-90	21	CONTINENTAL RESOURCES (TMS UNITS)	158.00
09-Sep-90	22	CONTINENTAL RESOURCES (TMS UNITS)	239.00
09-Sep-90	22	CONTINENTAL RESOURCES (TMS UNITS)	193.00
23-Sep-90	22	CONTINENTAL RESOURCES (TMS UNITS)	478.00
07-Oct-90	22	CONTINENTAL RESOURCES (TMS UNITS)	432.00
18-Nov-90	22	CONTINENTAL RESOURCES (TMS UNITS)	158.00
16-Dec-90	22	CONTINENTAL RESOURCES (TMS UNITS)	432.00
16-Dec-90	22	CONTINENTAL RESOURCES (TMS UNITS)	193.00
30-Dec-90	22	CONTINENTAL RESOURCES (TMS UNITS)	432.00

TOTAL TIME-RELATED EQUIPMENT RENTAL \$6,841.86

INSURANCE

22-Nov-87	8	GJ-68	5,908.00
26-Mar-89	8	GJ-110	4,430.97
25-Jun-89	8	GJ-209	984.66
23-Apr-89	8	GJ-127	492.33
02-Mar-86	13	L.R.H. & C. INSURANCE	1,860.00
08-Jun-86	14	L.R.H. & C. INSURANCE	5,408.00
29-Jun-86	14	GJ-296	(5,408.00)
29-Jun-86	20	GJ-296	5,408.00

TOTAL TIME-RELATED INSURANCE \$19,083.96

PROJECT SUPPLIES

07-Jul-85	2	ADCOM	248.56
07-Jul-85	2	NOVA BLUE	295.60
29-Sep-85	2	KROY INC.	355.79
31-Jul-88	8	VISUAL SYSTEMS	125.30
03-Jan-88	8	NOVA BLUE	79.16
15-Jan-89	9	VISUAL SYSTEMS	131.57
26-Jun-88	9	VISUAL SYSTEMS	62.64
23-Oct-88	9	VISUAL SYSTEMS	80.08
08-May-88	9	VISUAL SYSTEMS	62.65
05-Jun-88	12	LANIER BUSINESS PRODUCTS	69.70
28-Feb-88	12	NOVA BLUE	79.16
09-Nov-86	12	NOVA BLUE	26.88
13-Aug-89	12	VISUAL SYSTEMS	197.35
15-Mar-87	12	MARYLAND BLUEPRINT CO.	83.59
25-May-86	12	KROY INC.	355.36

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PLAINTIFF'S
EXHIBIT

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TIME RELATED OTHER DIRECT COSTS

DATE	TASK	VENDOR	AMOUNT
09-Apr-89	12	VISUAL SYSTEMS	270.01
28-Sep-86	12	CARROLL'S STATIONERS	78.03
28-Aug-88	12	LANIER BUSINESS PRODUCTS	38.35
05-Jun-88	12	LANIER BUSINESS PRODUCTS	314.17
24-Apr-88	12	VISUAL SYSTEMS	23.28
31-Jul-88	12	LANIER BUSINESS PRODUCTS	75.66
10-Nov-85	13	DORN'S PHOTO SHOP	71.93
13-Apr-86	13	LANIER BUSINESS PRODUCTS	93.60
28-Sep-86	13	CARROLL'S STATIONERS	41.71
11-May-86	14	DOCUMENT ENGINEERING	27.79
09-Nov-86	14	CARROLL'S STATIONERS	1.56
23-Nov-86	14	CARROLL'S STATIONERS	30.96
21-Dec-86	14	LANIER BUSINESS PRODUCTS	62.60
28-Feb-88	17	VISUAL SYSTEMS	27.94
15-Mar-87	17	MARYLAND BLUEPRINT CO.	83.60
23-Nov-86	17	NOVA BLUE	26.87
28-Sep-86	17	CARROLL'S STATIONERS	26.10
05-Jun-88	17	LANIER BUSINESS PRODUCTS	314.17
24-Apr-88	17	VISUAL SYSTEMS	23.29
31-Jan-88	17	VISUAL SYSTEMS	26.11
07-Oct-90	21	NOVA BLUE	60.00
25-Mar-90	21	NOVA BLUE	87.08
12-Aug-90	21	VISUAL SYSTEMS	31.00
26-Aug-90	21	NOVA BLUE	114.00
07-Oct-90	21	NOVA BLUE	204.00
05-Nov-89	21	NOVA BLUE	87.08
27-Aug-89	21	NOVA BLUE	87.09
25-Mar-90	21	VISUAL SYSTEMS	13.69
22-Apr-90	21	VISUAL SYSTEMS	49.00
17-Jun-90	21	VISUAL SYSTEMS	125.40
22-Apr-90	21	ACCUPRINT INC.	65.84
17-Dec-89	21	VISUAL SYSTEMS	117.18
26-Jun-88	21	VISUAL SYSTEMS	10.31
07-Oct-90	21	VISUAL SYSTEMS	184.00
25-Mar-90	22	NOVA BLUE	87.08
22-Apr-90	22	VISUAL SYSTEMS	49.00
07-Oct-90	22	NOVA BLUE	60.00
05-Nov-89	22	NOVA BLUE	87.08
07-Oct-90	22	VISUAL SYSTEMS	184.00
27-Aug-89	22	NOVA BLUE	87.08
10-Sep-89	22	NOVA BLUE	114.00
17-Dec-89	22	VISUAL SYSTEMS	117.17
17-Jun-90	22	VISUAL SYSTEMS	125.40
22-Apr-90	22	ACCUPRINT INC.	65.83
25-Mar-90	22	VISUAL SYSTEMS	13.69
06-May-90	22	NOVA BLUE	205.00
23-Sep-90	22	VISUAL SYSTEMS	31.00
TOTAL TIME-RELATED PROJECT SUPPLIES			36,373.12
TIME-RELATED POSTAGE COSTS			1,800.00 1\
TIME-RELATED COURIER COSTS			10,336.00 2\
TOTAL TIME-RELATED "OTHER DIRECT COSTS"			844,434.94

1\ CALCULATED AS \$300/YEAR FOR 6 YEARS, BASED ON RECORDED COST TRENDS FOR FISCAL YEARS 1986-1991.

2\ CALCULATED AS \$2000/YEAR FOR 5 YEARS, BASED ON RECORDED COST TRENDS FOR FISCAL YEARS 1986-1990, PLUS RECORDED COST THROUGH MAY, 1991 OF \$336.

**BUDGETED TIME-RELATED COSTS FOR CONTRACT MODIFICATIONS OTHER THAN
MODIFICATION #3 AND FIXED PRICE LEVEL OF EFFORT**

DESCRIPTION	MOD #10	MOD #31	MOD #32	MOD #35	MOD #36	MOD #38	MOD #44	TOTAL
ON-SITE DIRECT LABOR:								
TECHNICAL DIRECTOR	1,983	7,240						9,224
PROJECT MANAGER		30,406	34	476	44,088	37	441	75,482
PROJECT COORDINATOR	16,590							16,590
SR LOGISTICS ENGINEER		11,199		890			94	12,183
SR LOGISTICS ANALYST						96		96
LOGISTICS MGT SPECIALIST		4,975	104					5,079
SR SYSTEMS ENGINEER		10,120		2,537			467	13,124
SYSTEMS ENGINEER TEST				1,262			333	1,594
SR TELECOMM ENGINEER		8,363						8,363
SR ENGINEER	3,497							3,497
CONFIGURATION MGR				659			554	1,213
CONFIGURATION MGT SPECIALIST		8,510						8,510
TEST DIRECTOR		7,466						7,466
T & E ENGINEER		6,386						6,386
COST ANALYST	1,016							1,016
SECRETARY/WORD PROCESSOR	840	20,961	33	661	7,413	74	79	30,061
CONTRACT ADMIN (COMPOSITE)	2,427	5,427	64	948		203		9,068
SUBCONTRACT ADMIN (COMPOSITE)	1,322	3,612	34	657		169		5,794
TOTAL TIME-RELATED DIRECT LABOR, ON-SITE	27,675	124,665	268	8,090	51,501	579	1,967	214,744
TOTAL OVERHEAD	28,284	129,813	334	10,082	60,364	637	2,718	232,231
TIME-RELATED TRAVEL	7,489	36,490	0	0	0	0	9,090	53,069
TIME-RELATED CONSULTANTS	0	15,168	0	672	0	0	9,737	25,577
TIME-RELATED DIRECT COSTS AND OVERHEAD	63,449	306,137	603	18,844	111,865	1,217	23,513	525,621
TOTAL GENERAL & ADMINISTRATIVE	5,349	35,634	55	1,572	9,162	93	2,438	54,302
TOTAL TIME-RELATED COSTS	68,798	341,771	658	20,416	121,027	1,310	25,951	579,923

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PLAINTIFF'S
EXHIBIT

966

SUMMARY OF TIME-RELATED COSTS FOR
REMOTE CONTROL ELEMENT REPROCUREMENT

	RCE
DIRECT LABOR	67,198 (EXHIBIT 982)
ON-SITE OVERHEAD	88,533 (EXHIBIT 982)
TRAVEL	4,993
	160,724
GENERAL & ADMINISTRATIVE	12,263
TOTAL	172,987

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**CALCULATION OF EXCESS ON-SITE OVERHEAD
ABSORBED BY ICCE PROJECT**

DESCRIPTION -----	CLAIM AMOUNT -----	
BUDGETED DIRECT LABOR, ON-SITE	\$1,170,594	(EXHIBIT 968-A)
ACTUAL ON-SITE OVERHEAD RATE, FY1986-1990	x 1.293	(EXHIBIT 969)

ACTUAL ON-SITE OVERHEAD ON BUDGETED LABOR	1,513,578	
LESS: SHOULD-HAVE-BEEN ON-SITE OVERHEAD AT ANTICIPATED RATES	1,251,169	(EXHIBIT 968-A)

DIFFERENCE	\$262,409	

2794



CONTROL BUDGET FOR JOB 125

COST CENTER	CONTROL BUDGET
DIRECT LABOR	1,170,594
OVERHEAD	1,251,169
TRAVEL	680,011
CONSULTANT	548,252
SUBCONTRACTORS	8,565,105
MATERIALS	1,514,137
OTHER DIRECTS	611,773
SUBTOTAL	14,341,041
GENERAL & ADMINISTRATIVE	1,218,425
TOTAL COST	15,559,466

2795



**TECHDYN SYSTEMS CORP.
CALCULATION OF ACTUAL ON-SITE OVERHEAD RATE
FISCAL YEARS 1986 - 1991**

	(A) RECORDED COSTS FISCAL YEARS 1986 - 1990	(B) RECORDED COSTS FISCAL YEARS 1991 (1)	(C) = (A)+(B) TOTAL RECORDED COSTS FISCAL YEARS 1986 - 1991
ON-SITE OVERHEAD COSTS (2)	\$4,499,790	\$188,128	\$4,687,918
DIRECT ON-SITE LABOR COSTS	3,426,866	198,019	3,624,885

ON-SITE OVERHEAD RATE			129.3% =====

NOTES:

- (1) FISCAL YEAR 1991 DATA REPRESENTS COSTS FOR FISCAL YEAR-TO-DATE AT 19-MAY-91.
- (2) EXCLUDING PROFESSIONAL FEES.

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TECHDYN SYSTEMS CORP.
ON-SITE OVERHEAD COSTS, FISCAL YEARS 1986 - 1990

ACCOUNT							TOTAL
NUMBER	DESCRIPTION	1986	1987	1988	1989	1990	1986 - 1990
71100,1	INDIRECT LABOR,TDNE	184,092	134,809	101,677	96,411	48,905	565,894
71110,1	AUTO LEASE,TDNE	12,676	881	46	0	0	13,603
71150,1	RECRUITING BONUS,TDNE	600	0	0	0	0	600
71200,1	VACATION PAY EXPENSE,TDNE	51,353	45,588	39,052	34,082	6,353	176,427
71300,1	SICK PAY EXPENSE,TDNE	30,099	31,027	26,642	20,783	15,753	124,304
71400,1	HOLIDAY PAY EXPENSE,TDNE	38,325	29,493	21,698	21,474	13,900	124,890
71410,1	ADMIN,TDNE/BEREAVEMENT LEAVE	1,543	3,313	1,810	1,333	1,284	9,282
71420,1	SEVERENCE PAY,TDNE	3,059	12,098	1,694	0	2,040	18,891
71430,1	INSURANCE EXPENSE- THE TRAVELERS, TDNE,	66,308	53,810	48,171	42,426	22,365	233,079
40,41	AND MUTUAL BENEFIT INS.						
71450	WORKMEN'S COMPENSATION INSURANCE	3,012	2,329	2,277	5,522	3,903	17,043
71460,1	FEDERAL UNEMPLOYMENT TAX EXPENSE,TDNE	2,447	1,694	1,517	894	818	7,370
71470,1	FICA TAX EXPENSE,TDNE	68,998	62,317	50,867	47,596	28,107	257,884
71480,1	STATE UNEMPLOYMENT TAX EXPENSE,TDNE	10,692	3,874	2,335	2,416	1,008	20,325
71700,1	OTHER EMPLOYEE BENEFITS,TDNE	1,429	219	262	124	0	2,034
71800,1	EMPLOYEE RELATIONS,TDNE	59	37	365	528	237	1,226
72001	BANK CHARGES-TDNE	32	112	125	142	123	534
72300,1	BUSINESS CONFERENCE,TDNE	617	157	436	503	0	1,712
72500,1	BUSINESS INSURANCE,TDNE	1,858	2,604	2,327	19,193	19,779	45,761
72510,1	AUTO INSURANCE,TDNE	3,181	2,365	2,149	0	0	7,695
72700	CONSULTANTS	4,726		250	696	8,269	13,941
72720,1	TEMPORARY EMPLOYEE,TDNE	1,560	4,279	0	1,550	0	7,390
72750,1	REPAIR & MAINTENANCE,TDNE	6,105	2,284	3,148	8,473	3,028	23,038
72900,1	DEPRECIATION & AMORTIZATION,TDNE	1,194	5,168	8,436	8,626	1,609	25,034
73000,1	EQUIPMENT LEASE,TDNE	18,546	20,674	21,379	14,137	5,999	80,736
73700	GROUP INSURANCE	952	753	1,026	2,256	1,706	6,692
74300	MEMBERSHIP/DUES	100	259		450		809
74400,1	TUITION/SEMINARS,TDNE	6,896	1,576	2,838	1,985	2,250	15,545
74500,1	MINOR OFFICE FURNITURE,TDNE	198	587	0	2,108	(400)	2,494
74700,1	MINOR OFFICE EQUIPMENT,TDNE	302	383	191	0	1,790	2,666
74800,1	MISCELLANEOUS OFFICE EXPENSE,TDNE	5,469	7,188	6,787	5,162	6,787	31,393
74900,1	MISCELLANEOUS TAX/LICENSES,TDNE	584	128	1,230	428	232	2,602
75000,1	MOVING EXPENSES,TDNE	144	0	903	2,736	2,131	5,914
75101	STORAGE RENT-TDNE				165	900	1,065
75200,1	OFFICE RENT,TDNE	54,465	51,476	46,666	87,018	16,506	256,131
75301	PROJECT WAREHOUSE RENT-TDNE	13,000	12,000	12,000	2,000	30,333	69,333
75400,1	OFFICE SUPPLIES,TDNE	5,719	6,792	4,058	3,073	1,191	20,833
75500,1	POSTAGE,TDNE	308	86	204	205	84	888
75570,1	COURIER SERVICES,TDNE	6,075	5,644	4,899	5,245	2,103	23,965
75600,1	PRINTING & GRAPHICS,TDNE	2,094	1,377	725	1,008	121	5,326
75700	MARKETING EXPENSE				1,221		1,221
76000,1	RECRUITING,TDNE	293	108	242	477	1,424	2,545
76500,1	SUBSCRIPTIONS/PUBLICATIONS,TDNE	5,233	3,178	1,228	1,001	0	10,639
76701	POWER & LIGHT-TDNE	10,220	8,311	6,166	4,199	2,546	31,443
77000,1	TELEPHONE,TDNE	16,792	16,531	15,302	3,051	4,445	56,121
77071	TELEX EXPENSE-TDNE	6					6
77500,1	TRAVEL,TDNE	18,844	7,408	5,881	4,890	1,219	38,242
77551	RELOCATION	(2,287)	2,573				285
	ALLOCATED FROM DEPT #03	327,840	393,184	380,887	321,079	175,725	1,598,715
	ALLOCATED FROM DEPT #06	35,510	35,599	80,623	78,262	40,322	270,316
	ALLOCATED FROM DEPT #07	103,128	90,877	27,634	41,974	2,293	265,906
	SUBTOTAL	1,124,397	1,065,152	936,153	896,901	477,187	4,499,790
	ALLOCATION BASE (DIRECT ON-SITE LABOR)	878,516	848,136	733,889	651,103	315,222	3,426,866
	ON-SITE OVERHEAD RATE	128.0%	125.6%	127.6%	137.8%	151.4%	

SOURCE: PROPOSALS FOR THE DEFINITIZATION OF BURDEN RATES - FISCAL YEARS 1986-1990.

NOTE: ON-SITE OVERHEAD AMOUNTS EXCLUDE PROFESSIONAL FEES AND RENTAL PAYMENTS TO VEDA.

2797

**PLAINTIFF'S
EXHIBIT**

970

TECHDYN SYSTEMS CORP.
CALCULATION OF ACTUAL GENERAL AND ADMINISTRATIVE COSTS RATE
FISCAL YEARS 1986 - 1991

	(A) RECORDED COSTS FISCAL YEARS 1986 - 1990	(B) RECORDED COSTS FISCAL YEARS 1991 (1)	(C) = (A)+(B) TOTAL RECORDED COSTS FISCAL YEARS 1986 - 1991
G&A COSTS	\$4,317,247	\$998,549	\$5,315,796
G&A COST BASE (TOTAL DIRECT COSTS)	56,589,217	7,931,288	64,520,505 -----
G&A COST RATE			8.24% =====

NOTE:

- (1) FISCAL YEAR 1991 DATA REPRESENTS COSTS FOR FISCAL
 YEAR-TO-DATE AT 19-MAY-91.

2798

**PLAINTIFF'S
 EXHIBIT**

971

TECHDYN SYSTEMS CORP.
GENERAL & ADMINISTRATIVE COSTS, FISCAL YEARS 1986 - 1990

ACCOUNT NUMBER	DESCRIPTION	1986	1987	1988	1989	1990	TOTAL 1986-1990
'1100	INDIRECT LABOR	166,541	196,650	132,497	135,451	318,631	949,770
'1200	VACATION PAY EXPENSE	32,656	15,105	13,576	26,314	43,019	130,669
'1300	SICK PAY EXPENSE	1,788	2,184	1,203	821	4,886	10,883
'1400	HOLIDAY PAY EXPENSE	7,369	7,677	5,308	6,710	11,892	38,956
'1410	ADMINISTRATIVE LEAVE	0	792	0	0	0	792
'1420	SEVERANCE PAY	0	2,116	806	0	3,692	6,614
'1430	INSURANCE EXP. - MUTUAL BENEFIT	2,454	3,601	3,093	2,991	4,455	16,595
'1440	INSURANCE EXP. - TRAVELERS	5,852	6,385	3,927	5,550	6,104	27,818
'1450	WORKMEN'S COMP. INSURANCE	585	668	619	4,705	3,038	9,616
'1460	FED. UNEMPLOYMENT TAX EXPENSE	162	435	113	218	327	1,255
'1470	FICA TAX EXPENSE	5,678	8,930	4,434	6,343	15,283	40,668
'1480	STATE UNEMPLOYMENT TAX EXP.	356	934	33	191	273	1,787
'1700	OTHER EMPLOYEE BENEFITS	0	0	0	0	75	75
'1800	EMPLOYEE RELATIONS	0	0	0	23	130	153
'2000	BANK CHARGES	0	0	0	0	13	13
'2300	BUSINESS CONFERENCE	5,519	5,206	1,258	4,595	4,491	21,068
'2500	BUSINESS INSURANCE	0	0	0	1,036	0	1,036
'2510	AUTO INSURANCE	810	862	1,158	0	1,912	4,742
'2700	CONSULTANTS	864	9,170	4,043	0	0	14,077
'2720	TEMPORARY EMPLOYEE	4,082	7,708	0	5,748	0	17,538
'2750	REPAIR & MAINTENANCE	280	150	732	0	3,409	4,571
'2900	DEPRECIATION & AMORTIZATION	9,736	8,868	1,633	0	6,587	26,823
'3000	EQUIPMENT LEASE	810	0	0	0	0	810
'3700	GROUP INSURANCE	952	1,032	1,577	2,807	7,258	13,625
'4300	MEMBERSHIP/DUES	125	0	50	122	1,360	1,657
'4400	TUITION/SEMINARS	105	0	0	225	135	465
'4500	MINOR OFFICE FURNITURE	0	0	0	565	332	898
'4700	MINOR OFFICE EQUIPMENT	0	0	0	309	0	309
'4700	MISCELLANEOUS OFFICE EXPENSE	414	104	874	332	809	2,533
'4700	MISCELLANEOUS TAX/LICENSES	3,318	83,805	33,038	17,870	19,057	157,088
'4700	OFFICE SUPPLIES	30	0	4	407	979	1,420
'5500	POSTAGE	1	43	0	0	0	44
'5570	COURIER SERVICES	286	152	0	10	77	525
'5600	PRINTING & GRAPHICS	1,800	188	222	290	0	2,500
'5700	MARKETING EXPENSE	6,980	685	481	5,793	1,450	15,390
'5800	PROFESSIONAL FEE	32,473	43,558	43,460	52,434	60,854	232,780
'6000	RECRUITING	145	2,973	185	0	5,147	8,450
'6400	STATE CORPORATE INCOME TAX	14,860	1,237	0	441	15,000	31,538
'6500	SUBSCRIPTIONS/PUBLICATIONS	99	335	204	1,247	3,610	5,495
'7000	TELEPHONE	13	1,002	1,185	591	491	3,282
'7500	TRAVEL	10,318	12,676	3,295	5,520	35,396	67,205
Subtotal		317,462	425,229	259,007	289,657	580,173	1,871,529
B&P COSTS		149,996	406,296	425,000	324,841	266,620	1,572,753
ALLOCATED FROM DEPT #03		70,611	110,940	89,333	85,456	184,918	541,258
ALLOCATED FROM DEPT #06		40,091	57,821	14,490	15,541	37,553	165,496
ALLOCATED FROM DEPT #07		16,500	20,425	36,784	63,137	29,365	166,211
Total		594,660	1,020,711	824,614	778,632	1,098,629	4,317,247
G&A BASE		11,057,442	10,440,102	11,905,404	11,803,178	11,383,091	56,589,217
G&A RATE		5.38%	9.78%	6.93%	6.60%	9.65%	7.63%

2799

SOURCE : PROPOSALS FOR THE DEFINITIZATION OF BURDEN RATES - FISCAL YEARS 1986 - 1990.

**PLAINTIFF'S
EXHIBIT**

972

SUMMARY OF CLAIM FOR RELOCATION OF TEST BED

DESCRIPTION	CLAIM AMOUNT
DIRECT LABOR	\$1,218 (EXHIBIT 975)
ON-SITE OVERHEAD	1,692 (EXHIBIT 975)
CONSULTANTS	6,121 (EXHIBIT 975)
TRAVEL	7,477 (EXHIBIT 975)
SUBCONTRACT - RENT	23,948 (EXHIBIT 976)
SUBTOTAL	40,456
GENERAL & ADMINISTRATIVE	3,455
SUBTOTAL	43,911
PROFIT	4,831
TOTAL	\$48,742

2800



CALCULATION OF CLAIM FOR TEST BED RELOCATION

COST CENTER	FY 1988	FY 1989	FY 1990	FY 1991	TOTAL
DIRECT LABOR, ON-SITE	\$0	\$1,218	\$0	\$0	\$1,218
ON-SITE OVERHEAD	0	1,692	0	0	1,692
TRAVEL	3,315	4,162	0	0	7,477
CONSULTANTS	3,374	2,747	0	0	6,121
SUBCONTRACTS (1)	0	7,617	7,355	8,976	23,948
SUBTOTAL	6,689	17,436	7,355	8,976	40,456
G&A (2)	464	1,151	710	1,130	3,455
SUBTOTAL	7,153	18,587	8,065	10,106	43,911
PROFIT (2)	787	2,045	887	1,112	4,831
TOTAL	\$7,940	\$20,632	\$8,952	\$11,218	\$48,742

NOTES:

- 1) RENTAL OF SPACE FOR TEST BED FROM VEDA.
- 2) CALCULATED USING TECHDYN'S ACTUAL OVERHEAD AND G&A RATES FOR EACH YEAR.

PLAINTIFF'S
EXHIBIT

974

LABOR, CONSULTANT & TRAVEL COSTS TO RELOCATE TEST BED

DESCRIPTION	DISASSEMBLE 10/87	REASSEMBLE 1/88	DISASSEMBLE & REASSEMBLE 8/88	TOTAL
DIRECT LABOR:				
J. CARTER	-	-	1,218	1,218
ON-SITE OVERHEAD	-	-	1,692	1,692
CONSULTANTS:				
W. CLARK	569	-	-	569
L. TILLEY	496	864	1,235	2,595
D. SOUTHARD	527	918	1,512	2,957
TOTAL CONSULTANTS	1,592	1,782	2,747	6,121
TRAVEL:				
W. CLARK	585	-	-	585
L. TILLEY	530	530	1,204	2,264
D. SOUTHARD	532	1,138	1,246	2,916
J. CARTER	-	-	1,712	1,712
TOTAL TRAVEL	\$1,647	\$1,668	\$4,162	\$7,477

PLAINTIFF'S
EXHIBIT
975

2802

INVOICE

TechDyn Systems Corporation
6564 Loisdale Court, Suite 600
Springfield, VA 22150

Purchase Order: 12546

Attention: Max S. Rosen

P4393

INVOICE NO: 109928

DATE: 07/31/89

TERMS: Net 30 days

SHIPMENT NO: 11

DATE SHIPPED: AUG - 1 1989

ARTICLES OR SERVICES	AMOUNT	CUMULATIVE
----------------------	--------	------------

Rental of space for ICCE CFA Equipment:

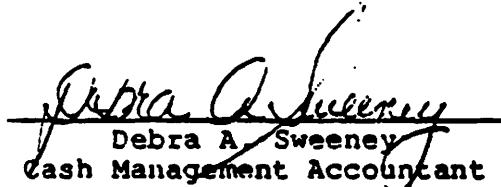
July 1989	\$761.67	
-----------	----------	--

Total Billings to Date		\$8,378.37
------------------------	--	------------

Previous Invoice Total		\$7,616.70
------------------------	--	------------

Total Claimed:	<u>\$761.67</u>	
----------------	-----------------	--

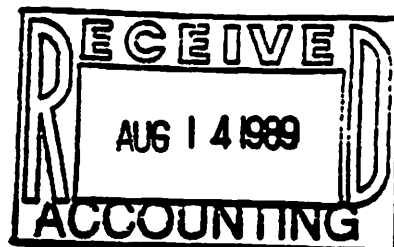
This is to certify that the services set forth herein were performed during the period stated.


Debra A. Sweeney
Cash Management Accountant

AUG - 1 1989

Date

ORIGINAL
INVOICE



PLAINTIFF'S
EXHIBIT

976

2803

Veda Incorporated

11 Canal Center Plaza • Suite 300 • Alexandria, Virginia 22314-1538 • 703/684-8005

INVOICE

TechDyn Systems Corporation
6564 Loisdale Court, Suite 600
Springfield, VA 22150

P4393

INVOICE NO: 4561112290

Purchase Order: 12546

DATE: 03/31/90

Attention: Max S. Rosen

TERMS: NET 30 DAYS

SHIPMENT NO: 18

DATE SHIPPED:

MAR 13 1990

ARTICLES OR SERVICES

AMOUNT

CUMULATIVE

Rental of space for ICCE CFA Equipment:

March 1990

\$833.05

Total Billings to Date

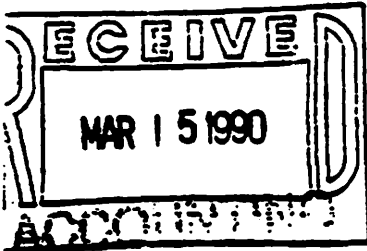
\$14,971.37

Previous Invoice Total

\$14,138.32

Total Claimed:

\$833.05



This is to certify that the services set forth herein were performed during the period stated.

Debra A. Sweeney
Debra A. Sweeney
Cash Management Accountant

MAR 13 1990

Date

**ORIGINAL
INVOICE**

2804

Veda Incorporated

11 Canal Center Plaza • Suite 300 • Alexandria, Virginia 22314-1538 • 703/684-8005

FINAL
INVOICE

KK
4/1/91

TechDyn Systems Corporation
6564 Loisdale Court, Suite 600
Springfield, VA 22150.

Purchase Order: 12546

Attention: Max S. Rosen

P4393

INVOICE NO: 4561500015

DATE: 03/31/91

TERMS: NET 30 DAYS

SHIPMENT NO: 26Z

DATE SHIPPED: MAR 31 1991

ARTICLES OR SERVICES	CURRENT	CUMULATIVES
----------------------	---------	-------------

Rental of space for ICCE CFA Equipment:
(2/18 - 2/28/91)

Total Billings to Date	\$23,947.45
Previously Billed	(\$23,510.10)
Total Claimed:	<u>\$437.35</u>

This is to certify that the services set forth herein were performed during the period stated.

Marian A. Watson

Marian A. Watson
Cash Management Accountant

MAR 31 1991

Date

**ORIGINAL
INVOICE**

02-75200

2805

Veda Incorporated

11 Canal Center Plaza • Suite 300 • Alexandria, Virginia 22314-1538 • 703/684-8005

DAMAGES FOR REPLACEMENT OF KEYBOARD AND PRINTER

DESCRIPTION -----	CLAIM AMOUNT -----
WHISPER WRITER PRINTER	\$635 (EXHIBIT 978)
KEYBOARD	746 (EXHIBIT 978) -----
DIRECT COSTS	1,381
GENERAL & ADMINISTRATIVE	139 -----
TOTAL COSTS	1,520
PROFIT	167 -----
TOTAL DAMAGES	\$1,687 -----

2806



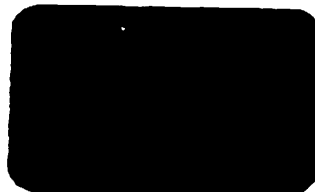
Tecdyn Systems Corporation
 66 Linsdale Court
 Springfield, VA 22150

13136

PURCHASE ORDER/SUBCONTRACT

CUSTOMER R. Rose		DATE 3/22/90	CONTRACT NO. 125-13	GOVERNMENT CONTRACT NO. P19628-85-C-0079
FOR POINT Origin	SHIP VIA Overnight	TERMS Net 30	SPECIAL INSTRUCTIONS	
VENDOR KENCOM COMMUNICATIONS & SERVICE 5865-A Clayton Ave. Pennsauken, NJ 08109 Attn: Cathy			SHIP TO TECDYN SYSTEMS CORPORATION 6364 Linsdale Court, Suite 600 Springfield, VA 22150 Attn: Max S. Rosen	

ITEM	QUANTITY	DEL. DATE	DESCRIPTION	UNIT PRICE	TOTAL PR.
1	1 ea.	3/26/90	Trendcom Whisper Writer & RS232 Interface (Including model 1945 keyboard) Model 1980	395.00	395.00
			Overnight Shipping	40.00	40.00



DATE	ITEM	QUANTITY	RECD	QTY
3/25	1	X		

ORG. CODE N/A	WORK ORDER NO. N/A	TRAIL NO. 125-13	TOTAL 635.
ACCT NO. N/A	ACQUISITION NO. N/A	VENDOR CODE N/A	
AUTHOR MAX S. ROSEN		DATE 3/22/90	

WE ACCEPT THIS ORDER AND WILL SHIP ACCORDING TO YOUR INSTRUCTIONS AND DEL. DATE

☒ ORIGINAL PURCHASE ORDER
☐ RETURNING ORDER CHANGE LETTER

THIS - Original COPY - WORK COPY FOR - Customer/Supplier

PLAINTIFF'S EXHIBIT

978

4234 Lakeside Court
Springfield, VA 22150

13132


REQUESTOR R. THORNTON		DATE 10/23/89	CONTRACT NO 125-11	GOVERNMENT CONTRACT NO F19628-85-C-0079
FOB POINT Origin	SHIP VIA Best Way	TERMS Net 30	SPECIAL INSTRUCTIONS	

Attn: Cindy Morrissey

Attn: Max Rosen

ITEM	QUANTITY	DEL. DATE	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1 ea	11/1/89	Keyboard # 118-000-732 Rev 1	743.50	743.50

DATE	ITEM	QUANTITY	
		REC'D	BYO
1/1/57	1	X	

ORG CODE N/A	WORK ORDER NO. N/A	TASK NO. 125-11	TOTAL 745.50
ACCT NO. N/A	REQUESTION NO. N/A	VENDOR CODE N/A	
AUTHORIZED 		DATE 10/23/07	
MAY 1 2008 WE ACCEPT THIS ORDER AND WILL SHIP ACCORDING TO YOUR INSTRUCTIONS AND THE DATE AUTHORIZED SIGNATURE			

☒ ORIGINAL PURCHASE ORDER
☐ PURCHASE ORDER CHANGE LETTER

NAME - (Print name) COUNTRY - (Print name) SEX - (Print name)

2808

CALCULATION OF INTEREST ON DELAY DAMAGES

YEAR IN WHICH CLAIMED AMOUNTS WERE INCURRED	CLAIMED AMOUNT	INTEREST INCURRED THROUGH FY 1991
FY 1988	\$367,219	\$121,549
FY 1989	734,435	154,231
FY 1990	734,435	73,444
FY 1991	734,435	0
	\$2,570,524	\$349,224

**PLAINTIFF'S
EXHIBIT**

979

--

**CALCULATION OF INTEREST ON DAMAGES
ASSOCIATED WITH RELOCATION OF TEST BEDS**

YEAR IN WHICH CLAIMED AMOUNTS WERE INCURRED	CLAIMED AMOUNT	INTEREST INCURRED THROUGH FY 1991
-----	-----	-----
FY 1988	\$7,940	\$2,628
FY 1989	20,632	4,333
FY 1990	8,952	895
FY 1991	11,218	0
	-----	-----
	\$48,742	\$7,856
	=====	=====

2810

**PLAINTIFF'S
EXHIBIT**

980

**CALCULATION OF INTEREST ON DAMAGES ASSOCIATED
WITH REPLACEMENT OF KEYBOARD AND PRINTER**

YEAR IN WHICH CLAIMED AMOUNTS WERE INCURRED	CLAIMED AMOUNT	INTEREST INCURRED THROUGH FY 1991
FY 1988	\$0	\$0
FY 1989	0	0
FY 1990	1,687	169
FY 1991	0	0
	\$1,687	\$169

2811



**SUMMARY OF TECHDYN'S PRETERMINATION AND
REPROCUREMENT COSTS FOR THE REMOTE CONTROL ELEMENT**

DESCRIPTION	CLAIM AMOUNT	
DIRECT LABOR, ON-SITE	\$67,198	(EXHIBIT 983)
ON-SITE OVERHEAD	88,533	
TRAVEL	5,498	(EXHIBIT 984)
CONSULTANTS	19,673	(EXHIBIT 983)
SUBCONTRACTS	183,703	(EXHIBIT 985)
MATERIALS	66,394	(EXHIBIT 986)
OTHER DIRECT COSTS	2,000	
SUBTOTAL	432,999	
GENERAL & ADMINISTRATIVE	33,038	
SUBTOTAL	466,037	
PROFIT	51,264	
SUBTOTAL	517,301	
INTEREST	51,730	(EXHIBIT 987)
TOTAL	\$569,031	



**DIRECT LABOR AND CONSULTING COSTS RELATED
TO REMOTE CONTROL ELEMENT REPROCUREMENT**

JOB CLASSIFICATION	INCREMENTAL MANHOURS	WAGE RATE (\$/HR)	AMOUNT (\$)
-----	-----	-----	-----
DIRECT LABOR:			
SENIOR SYSTEMS ENGINEER/TEST	400	22.89	9,156
SYSTEMS ENGINEER/TEST	200	20.35	4,070
SENIOR LOGISTICS ENGINEER	250	22.89	5,723
SENIOR LOGISTICS ANALYST	300	20.85	6,255
PROJECT MANAGER	250	24.04	6,010
SECRETARY/WORD PROCESSOR	200	9.60	1,920
CONTRACT ADMINISTRATION	495	17.90	8,861
SUBCONTRACT ADMINISTRATION	445	15.34	6,826

TOTAL - DIRECT LABOR			\$48,821

CONSULTANTS:

INSTALLER #1	100	21.00	2,100
INSTALLER #2	100	19.00	1,900
DRAFTSMAN	200	17.43	3,486
RELIABILITY PREDICTION REPORT	304	28.00	8,512

TOTAL - CONSULTANTS			\$15,998

2813

**PLAINTIFF'S
EXHIBIT**

983

**DIRECT LABOR AND CONSULTING COSTS RELATED TO
PRE-TERMINATION REMOTE CONTROL ELEMENT EFFORTS**

JOB CLASSIFICATION	INCREMENTAL MANHOURS	WAGE RATE (\$/HR)	AMOUNT (\$)
-----	-----	-----	-----
DIRECT LABOR:			
SENIOR SYSTEMS ENGINEER/TEST	240	21.82	5,237
SYSTEMS ENGINEER/TEST	130	19.95	2,594
SENIOR LOGISTICS ENGINEER	70	21.82	1,527
SENIOR LOGISTICS ANALYST	120	20.20	2,424
PROJECT MANAGER	260	21.21	5,515
SECRETARY/WORD PROCESSOR	120	9.00	1,080

TOTAL - DIRECT LABOR			\$18,377

CONSULTANTS:			
INSTALLER #1	150	17.00	2,550
INSTALLER #2	60	16.00	960
INSTALLER #3	10	16.46	165

TOTAL - CONSULTANTS			\$3,675

**TRAVEL COSTS FOR REMOTE CONTROL
ELEMENT REPROCUREMENT**

DATE	NAME	DESTINATION	PURPOSE		RECORDED COSTS
10-Oct-89 -12-Oct-90	JONES, EVERETT	DC-CARLSBAD-DC	ATTD. DOCUMENTATION MTG.	AIR FARE PER DIEM RENTAL CAR	\$743.00 68.00 100.56 ----- 911.56
17-Aug-89 -19-Aug-89	ROSE, RALPH	DC-LINCOLN, RI-DC	VISIT IDS LRM SOFTWARE	AIR FARE AUTO LODGING PER DIEM	236.00 93.00 71.00 ----- 400.00
25-Feb-90 25-Feb-90	ROSE, RALPH	DC-MEDFORD, NJ-DC	VISIT GRIM	PER DIEM AUTO	99.42 ----- 99.42
18-Jul-89 19-Jul-89	ROSE, RALPH	DC-MEDFORD, NJ-DC	ATT. DEMO. GRIM. EQ..	PER DIEM AUTO	105.15 ----- 105.15
11-Jan-90 11-Jan-90	THORNTON, RUFUS	DC-MEDFORD, NJ-DC	VISIT GRIM TEST RCE	PER DIEM AUTO MISC.	80.16 7.50 ----- 87.66
3-Jan-90 03-Jan-90	THORNTON, RUFUS	DC-MEDFORD, NJ-DC	VISIT GRIM TEST RCE----	PER DIEM AUTO MISC.	80.16 7.50 ----- 87.66
12-Mar-90 16-Mar-90	THORNTON, RUFUS	DC-CAMARILLO, CA.-DC	ICCE CFA TESTING	AIR FARE LODGING PER DIEM TELE. AUTO	696.00 244.00 152.00 3.06 ----- 1,095.06
19-Apr-89 21-Apr-89	THORNTON, RUFUS	DC-PANAMA CITY, FL-DC	ICCE ECP-32 DES. REV. MTG.	AIR FARE LODGING PER DIEM AUTO	662.00 112.89 65.00 12.75 ----- 852.64
27-Feb-90 27-Feb-90	ELLIS, DON	DC-MEDFORD, NJ-DC	GRIM ACC. TEST &CE MODENS	AUTO	92.70 ----- 92.70
12-Mar-90 16-Mar-90	ELLIS, DON	DC-CAMARILLO-DC	COMM. INTEG. TESTING	AIR FARE LODGING PER DIEM AUTO	696.00 244.00 144.50 177.04 ----- 1,261.54
09-Apr-89	CURLEY, JOHN	NY-DC-NY	RELIABILITY ANALYSIS FOR RECONFIGURED ICCE		504.18 -----
				TOTAL	35,497.57 -----

**PLAINTIFF'S
EXHIBIT**

984

2815

134
LCH
MSK
ICCE

TechDyn

19 July 1989

125-3002-0130

Veda Incorporated
5141 Verdugo Way
Camarillo, CA 93010

Attn: Ms. Terri Alleruzzo
Business Administrator

Subj: Subcontract 125-002; Modification No. 12

Ref: (a) Letter, Veda (Carrera) to TechDyn (Rosen), dated
6 April 1989, 43297-89U/Q4310-017
(b) Letter, Veda (Carrera) to TechDyn (Rosen), dated
17 April 1989, 43284-89U/Q4310-017
(c) HQ ESD Supplemental Agreement P00039
(d) Letter, TechDyn (Rosen) to Veda (Alleruzzo),
dated 17 July 1989, 125-3002-0129

Dear Ms. Alleruzzo:

This letter serves as Modification No. 12 to the subject Subcontract. TechDyn Systems accepts Veda's price of ~~\$1,424,700~~ in accordance with the referenced (a) and (b) letters and proposals submitted therein, as fair and reasonable for the work to be performed with regard to the referenced (c) Supplemental Agreement P00039 (ECP-32), enclosed herewith, for the changes related to the Remote Control Element (RCE). The required provisioning estimated by Veda at ~~\$441,000~~ will be performed within existing provisioning funds under Modification No. 2 to the subject Subcontract.

This modification also serves to extend the period of performance for Subcontract 125-002 through 15 January 1989 at no additional cost to TechDyn, except as stated hereinabove.

This modification increases the price of Subcontract 125-002 from \$1,846,662 to \$1,990,363.

Except as noted above, all terms and conditions of Subcontract 125-002 will remain the same.

This letter supercedes and replaces the referenced (d) letter.

Performance in accordance with the instructions provided herein is considered by TechDyn to be within the scope of the existing subcontract requirements. In the event that Veda does not agree that these instructions are within the present requirements, Veda must notify TechDyn, in writing, within ten (10) calendar days from receipt of this letter.

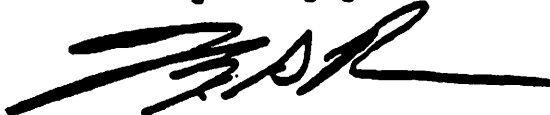
PLAINTIFF'S
EXHIBIT

985

17 July 1989
125-8002-0129
Page Two

If you have any questions regarding the above, please
contact the undersigned at (703) 922-5100.

Very truly yours,



Max S. Rosen
Manager of Contracts

MSR/clc

Enclosure: As stated

VEDA INCORPORATED

Approved by: _____

Title: _____

Date: _____

**MATERIALS COSTS FOR REMOTE CONTROL
ELEMENT REPROCUREMENT**

INVOICE/PO DATE	VENDOR	ITEM DESCRIPTION	INVOICE AMOUNT
ASSORTED	GRIM	IVDM 102	\$32,850.00
31-Jan-90	GRIM	SMP-1	1,275.00
13-Sep-89	BLACKBOX	SWITCH	363.05
09-Mar-89	DELTA	MCU-9B	8,500.00
09-Mar-89	DELTA	SPARE PARTS KIT	4,107.37
29-Sep-89	COLLINS	8093	7,650.00
29-Sep-89	COLLINS	8094	7,650.00
04-Aug-89	COLLINS	C-10370	1,998.59
	MISCELLANEOUS (ESTIMATED)		2,000.00
			\$66,394.01

2818

**PLAINTIFF'S
EXHIBIT**

986

CALCULATION OF INTEREST ON RCE DAMAGES

YEAR IN WHICH CLAIMED AMOUNTS WERE INCURRED	CLAIMED AMOUNT	INTEREST INCURRED THROUGH FY 1991
FY 1988	\$0	\$0
FY 1989	0	0
FY 1990	517,301	51,730
FY 1991	0	0
	\$517,301	\$51,730

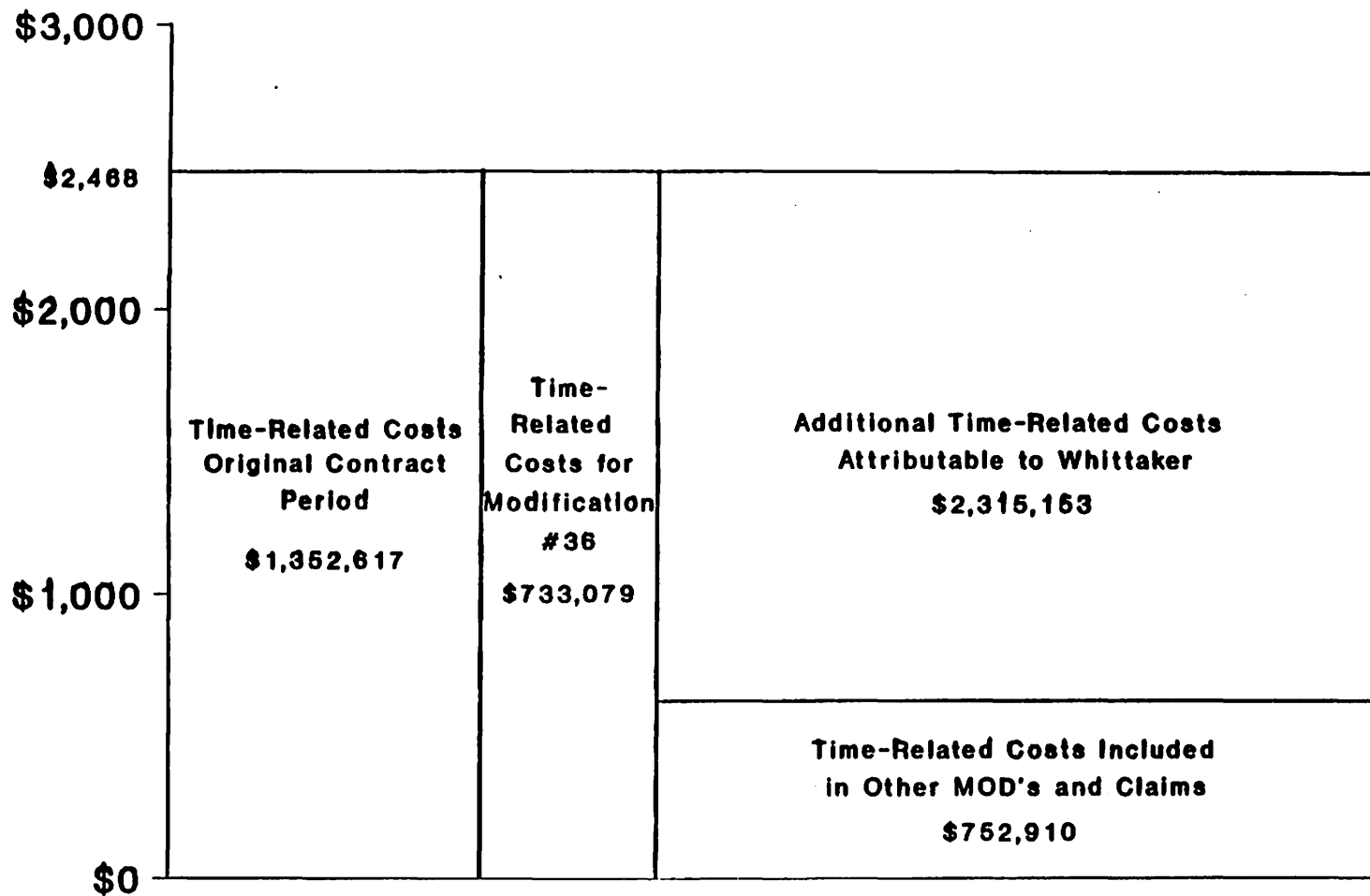
2819

**PLAINTIFF'S
EXHIBIT**

987

Summary of TechDyn's Time-Related Costs and Delay Claim

Time-Related
Cost per Day



2820





DEPARTMENT OF THE AIR FORCE
HEADQUARTERS ELECTRONIC SYSTEMS DIVISION (AFSC)
HANSCOM AIR FORCE BASE, MASSACHUSETTS 01731-5000

17 JUN 1986

17 June 1986

REPLY TO
ATTN OF: SCB

SUBJECT: IOCE Contract No. F19628-85-C-0079

TO: TechDyn Systems Corporation
Attn: William C. Hise, Director,
Management Support Operations
6564 Loisdale Court, Suite 600
Springfield, VA 22150

1. As discussed during our 11 - 12 June 1986 meeting at the offices of the North Atlantic Defense Systems Directorate, Headquarters Electronic Systems Division, the government has determined that an adjustment in the schedule for review of and agreement on the very important "B" level specifications and the Critical Design Review for subject contract is required. We must reach agreement on these specifications before we proceed into CDR and the review of both the "C" level specifications and the IOCE test plans and procedures.

2. The contractor's late delivery and inadequacy of the initial draft "B" level specifications has caused a lengthy review and revision process. Additionally, the contractor's decision to create interface design specifications, which are critical to understanding the "B5" Computer Program specifications, has further delayed government review and comment. Therefore, to meet the terms of the subject contract to establish an allocated requirements baseline prior to CDR, we must reach agreement without undue risk to the program.

3. Therefore, we submit the enclosed schedule for your review, concurrence and implementation. Performance of this instruction is considered to be within the scope of the existing contractual requirements. If you disagree, take no action, but notify the Contracting Officer, in writing, within 5 days of your receipt of this letter.

Stephen L. Smith
STEPHEN L. SMITH
Contracting Officer
Directorate of Strategic
System Contracts
Deputy for Contracting

1 Atch
IOCE CDR/Spec Review
Schedule, 11 Jun 86

*Distribution made
last wk. (arrived
by fax) 6/23/86*



ICELAND COMMAND & CONTROL ENHANCEMENT PROGRAM

CRITICAL DESIGN REVIEW/SPECIFICATION REVIEW SCHEDULE

- 9 - 24 Jun 86
 - USAF completes review of all Processing and Display Functional Area (PDFA) "B" specifications
 - USAF integrates all required changes into "blueline" copies of all PDFA "B" specs
 - If time permits, USAF also completes review of "B-5" specs for the remote control equipment (RCE) computer programs
- 25 Jun - 2 Jul 86
 - USAF and contractor Red-line PDFA "B" specifications at 4C facility, Torrance, CA.
 - If time permits, also red-line "B-5" specs for RCE software
- 8 - 11 Jul 86
 - USAF and contractor conduct PDFA CDR at facilities of 4C, Torrance, CA
- 30 Jun - 19 Jul 86
 - USAF completes review of all Communications Functional Area (CFA) "B" and "C4" specifications and remaining "C2A" specifications not yet approved.
- 22 - 26 Jul 86
 - USAF and contractor Red-line CFA specifications at TechDyn facility, Red Bank, NJ
- 28 Jul - 1 Aug 86
 - USAF and contractor conduct CFA CDR at TechDyn facility, Red Bank, NJ



5 November 1986

125-S001-0176

Command, Control and
Communications Corporation
23670 Hawthorne Blvd.
Torrance, CA 90505

Attn: Ms. Marie Raymond
Director of Contracts

Subj: Subcontract 125-S001; Show Cause Notice

Dear Ms. Raymond:

Since Command, Control and Communications Corporation has failed to make satisfactory progress under Subcontract No. 125-S001 within the time required by its terms, TechDyn Systems Corporation is considering terminating the subcontract under the conditions of default of this subcontract. Pending a final decision in this matter, it will be necessary to determine whether your failure to perform arose from causes beyond your control and without fault or negligence on your part. Accordingly, you are given the opportunity to present, in writing, any facts bearing on the question to the undersigned, within 10 days after receipt of this notice. Your failure to present any excuses within this time may be considered as an admission that none exist. Your attention is invited to the respective rights of the subcontractor and TechDyn Systems Corporation and the liabilities that may be invoked if a decision is made to terminate for default.

Any assistance given to you on this contract or any acceptance by TechDyn Systems Corporation of delinquent goods or services will be solely for the purpose of mitigating damages, and it is not the intention of TechDyn Systems Corporation to condone any delinquency or to waive any rights that TechDyn Systems Corporation has under the contract.

Very truly yours,

A handwritten signature in cursive script that reads "William C. Hise".

William C. Hise
Vice President and Director of
Management Support Operations

WCH/meb



TechDyn

SYSTEMS

15 September 1987

125-S001-0498

Whittaker Command & Control Systems
23670 Hawthorne Blvd.
Torrance, CA 90505

Attn: Mr. Scott Lamberth
President

Subj: Subcontract 125-001; Resumption of ICCE Computer
Programming Test and Evaluation (CPT&E)

Ref: Letter, HQ ESD (Smith) to TechDyn (Hise), dated 15
September 1987, NADS-241

Dear Mr. Lamberth:

TechDyn Systems has reviewed and is forwarding the referenced letter to Whittaker Command and Control Systems (WCCS) for action as requested by the Government. TechDyn requests WCCS to respond, in accordance with paragraph three, to TechDyn with a status of the outstanding System Trouble Reports (STR) and a tentative schedule for a Test Readiness Review based on the closure of all STRs. Your response is requested by the COB 17 September 1987.

Performance in accordance with the instructions provided herein is considered by TechDyn to be within the scope of the existing subcontract requirements. In the event that WCCS does not agree that these instructions are within the present requirements, WCCS must notify TechDyn, in writing, within ten (10) calendar days from receipt of this letter.

If you have any questions regarding the above, please contact the undersigned at (703) 922-5100.

Very truly yours,

William C. Hise

William C. Hise
Director
Management Support Operations

Enclosure: As stated

WCH/dlw



09/15/87

08:20

ESD/PKS-28PKS-3

NO. 007

002



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS ELECTRONIC SYSTEMS DIVISION (AFSC)
HANCOM AIR FORCE BASE, MASSACHUSETTS 01731-5000

15 SEP 1987REPLY TO
ATTN:

FHS-3/(SYB/LT PETROV)/NADS-241

SUBJECT:

Contract F19628-85-C-0079, NADS/IOCE, Subject: Resumption of IOCE Computer Programming Test and Evaluation (CPT&E)

TO:

TechDyn Systems Corporation
Attn: Mr. William C. Hise
6564 Linsdale Court
Suite 600
Springfield, VA 22150

1. Since the partial conduct of the CPT&E which began on 24 Aug 87, the Government has reviewed the readiness and configuration of the software under test. As was demonstrated by the fact that the CPT&E could only be partially conducted, it is clear that the software requires recoding to fully meet system requirements. The known problems have been documented as system trouble reports (STRs), a large number of which remain open. Also, as a result of conversations and observations of test witnesses during the CPT&E, the Government has grave concerns as to whether a baselined version of the software was indeed used for CPT&E. The operator interface area seems to be especially questionable.

2. Given the above concerns, the Government cannot agree to continuation of CPT&E until all STRs involving the software are satisfactorily resolved. When the contractor identifies that all such STRs have been closed, we recommend TechDyn schedule a formal Test Readiness Review with the Government as identified in the Master Test Plan. During the Test Readiness Review, TechDyn should be prepared to present documentation of all deviations from the documented requirements (which include agreements reached at the software CDR and during formal, documented discussions since then). When all deviations have been resolved, the CPT&E procedures can then be redlined to allow continuation of CPT&E.

3. Request TechDyn forward a copy of this letter to the senior management of Whittaker Corporation. Request TechDyn response by 18 Sep 87 including an assessment by Whittaker management and their "get well" plan. Point of contact is Lt Petrov at (617) 271-7175.

4. Performance in accordance with the instructions provided herein is considered to be within the present requirements of the subject contract. In the event the contractor does not agree that these instructions are within present requirements, he must notify the Contracting Officer, in writing within fifteen (15) calendar days of receipt of this letter.

STEPHEN L. SMITH
Contracting Officer
Directorate of Strategic
Systems Cont ...

2825

Whittaker

Whittaker Command & Control Systems, Inc.
23670 Hawthorne Boulevard
Torrance, California 90505
213/373-9651 Telex 756886

02 November 1987

8711-1425-MER/16393

TechDyn Systems Corporation
6564 Loisdale Court
Suite 600
Springfield, VA 22150

Attention: Mr. William Hise

Subject: Subcontract 125-001; Software Qualification Test
(SQT) System Trouble Reports (STRs)

Reference: TechDyn 125-S001-0539, dated 29 October 1987

Dear Sir:

In response to reference letter, attached are copies of STRs
opened during SQT dry run tests.

Further questions regarding the above should be directed to Mr.
David Bumstead at 213) 373-9651.

Sincerely,

Marie E. Raymond
Marie E. Raymond
Director of Contracts

MER:nch

Attachments



SYSTEM TROUBLE REPORT

DATE 10/06/87		2. CATEGORY (CIRCLE ONE) (S) D E L		3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5		4. STR NUMBER 87-842	
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) TADIL-A SURVEILLANCE DATA FREQUENCY							
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM ALL	
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED	
DLC:		KSC:		AOS:			
DSC:		KSG:		CCOS:			
DCU:		DCS:		TCOM EXEC:			
DRR:		TCOM:		CMS-2:			
11. TEST STEP						12. LINKING WITH	
13. ORIGINATOR (PRINT NAME) A. DURTSCHI				14. ASSIGNED TO A. DURTSCHI			
15. PROBLEM DUPLICATED		YES	NO	NA	16. SYSTEM STATUS		
DURING RUN							
AFTER RESTART							
AFTER RELOAD							
17. TROUBLE DESCRIPTION live TADIL-A Link transmission of surveillance data occurs every transmit cycle, regardless of frequency. It should not occur at intervals of less than 2 seconds.							
18. CORRECTIVE ACTION						19. STR STATUS	
						STATUS	DATE
						ASSIGNED	
						REVIEWED	
						REVIEWED	
						REVIEWED	
						ESTIMATED COMPLETION	
20. PATCHED VERSION						TESTED	
21. FIXED VERSION		22. ESTIMATED DATE				CLOSED	
23. SIGNATURE							

ENG-004 7/86

PLEASE SEE INSTRUCTIONS ON REVERSE SIDE OF FORM

2827

SYSTEM TROUBLE REPORT

DATE 10/06/87	2. CATEGORY (CIRCLE ONE) (5) D E L	3. PRIORITY (CIRCLE ONE) (1) 2 3 4 5	4. STR NUMBER 87-843																
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) DLC CRASHES FOR ROCC TRACK LATITUDE GREATER 88°																			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED																	
8. SYSTEM ICCE																			
9. PROGRAM VERSIONS: (AS APPLICABLE)		10. FUNCTION AFFECTED																	
DLC: _____ KSC: _____ AOS: _____ DSC: _____ KSG: _____ CCOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DBB: • TCOM: _____ CMS-2: _____		11. TEST STEP																	
		12. LINKING WITH																	
13. ORIGINATOR (PRINT NAME) A. DURTSCHI		14. ASSIGNED TO A. DURTSCHI																	
15. PROBLEM DUPLICATED		16. SYSTEM STATUS																	
DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">YES</td> <td style="width:25%;">NO</td> <td style="width:25%;">NA</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		YES	NO	NA													
YES	NO	NA																	
17. TROUBLE DESCRIPTION IF a ROCC Track is entered with Latitude greater than 88° N/S, or Flies there, The DLC crashes with a Floating point to Fixed point error																			
18. CORRECTIVE ACTION		19. STR STATUS																	
_____ _____ _____ _____ _____ _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> <tr><td>ASSIGNED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>ESTIMATED COMPLETION</td><td> </td></tr> <tr><td>TESTED</td><td> </td></tr> <tr><td>CLOSED</td><td> </td></tr> </table>		STATUS	DATE	ASSIGNED		REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION		TESTED		CLOSED	
		STATUS	DATE																
		ASSIGNED																	
		REVIEWED																	
		REVIEWED																	
		REVIEWED																	
ESTIMATED COMPLETION																			
TESTED																			
CLOSED																			
20. PATCHED VERSION	21. FIXED VERSION	22. ESTIMATED DATE																	
SIGNATURE																			

LNG-004 7/86

SYSTEM TROUBLE REPORT

1. CATEGORY (CIRCLE ONE) ③ D E L	3. PRIORITY (CIRCLE ONE) 1 2 ③ 4 5	4. STR NUMBER 87-844																
5. BRIEFLY DESCRIBE THE PROBLEM id Octal messages on lateral tell miss without any indication of bad msg.																		
6. REFERENCE DOCUMENT 11536/01T	7. DOCUMENT AFFECTED CPTEE App I	8. SYSTEM ICCF																
9. PROGRAM VERSIONS: (AS APPLICABLE) LC: 89.231 KSC: ADS: SC: KSG: CCOS: CU: DCS: TCOM EXEC: RR: TCOM: CMS-2:		10. FUNCTION AFFECTED Data Reduction lat-tell 11. TEST STEP Event 9 skip 12. LINKING WITH RC1-RC2 Loopback																
13. ORIGINATOR (PRINT NAME) Bernal		14. ASSIGNED TO																
15. PROBLEM DUPLICATED DURING RUN YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA <input type="checkbox"/> AFTER RESTART YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA <input type="checkbox"/> AFTER RELOAD YES <input type="checkbox"/> NO <input type="checkbox"/> NA <input checked="" type="checkbox"/>	16. SYSTEM STATUS																	
17. PROBLEM DESCRIPTION an invalid lateral tell octal message is generated by the action the system gives no indication of this message transmitted or received. Expected results was an invalid message of some sort. Data reduction, both on and off-line gave no visible response to this entry.																		
18. CORRECTIVE ACTION		19. STR STATUS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> </thead> <tbody> <tr><td>ASSIGNED</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>ESTIMATED COMPLETION</td><td>...</td></tr> <tr><td>TESTED</td><td></td></tr> <tr><td>CLOSED</td><td></td></tr> </tbody> </table>	STATUS	DATE	ASSIGNED		REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION	...	TESTED		CLOSED	
STATUS	DATE																	
ASSIGNED																		
REVIEWED																		
REVIEWED																		
REVIEWED																		
ESTIMATED COMPLETION	...																	
TESTED																		
CLOSED																		
20. FIXED VERSION	21. FIXED VERSION	22. ESTIMATED DATE																
23. SIGNATURE																		

SYSTEM TROUBLE REPORT

1. DATE 10/8/87	2. CATEGORY (CIRCLE ONE) S D (E) L	3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5	4. STR NUMBER 87-845
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) The modem for TADIL-B unit not modified.			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED SOT Day Run	8. SYSTEM ICCE
9. PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED
DLC: _____ RSC: _____ ADS: _____ DSC: _____ RSC: _____ ECOS: _____ DEU: _____ DES: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CMS-2: _____			11. TEST STEP
			12. LINKING WITH PDFA - Tinker - PC Simulator
13. ORIGINATOR (PRINT NAME) R Fowler		14. ASSIGNED TO	
15. PROBLEM DUPLICATED	YES	NO	NA
DURING RUN	X		
AFTER RESTART			
AFTER RELOAD			
16. SYSTEM STATUS			
TROUBLE DESCRIPTION The modem used for the TADIL-B link - PC Simulator to PDFA appears to check some problems that occurred on AIS when simulator wasn't on or modem wasn't on - it creates parity errors - TADIL-B threshold exceeded, possible caused the I/O time out that effected LT and TADIL-A links with erroneous data.			
18. CORRECTIVE ACTION		19. STR STATUS	
		STATUS DATE	
		ASSIGNED	
		REVIEWED	
		REVIEWED	
		REVIEWED	
		ESTIMATED COMPLETION	
		TESTED	
		CLOSED	
20. ATTACHED VERSION	21. FIXED VERSION	22. ESTIMATED DATE	
SIGNATURE			

SYSTEM TROUBLE REPORT

1. DATE 10/8/87		2. CATEGORY (CIRCLE ONE) (S) D E L		3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5		4. STR NUMBER 87-846			
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) ID Filter inhibit Filters All Tracks									
6. REFERENCE DOCUMENT			7. DOCUMENT AFFECTED SGT Day Am			8. SYSTEM ICCE			
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED DSC / DCC			
DLC: 87-274		KSC:		ADS:		11. TEST STEP			
DSC: 87-274		KSC:		ECOS:		12. LINKING WITH E-3 - PDFA			
DCU:		DCS:		TECH EXEC:					
DRR:		TECH:		CMS-2:					
13. ORIGINATOR (PRINT NAME) R Fowles				14. ASSIGNED TO Stenberg					
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD			YES		NO		16. SYSTEM STATUS		
			X						
17. TROUBLE DESCRIPTION The selection during our load test to E-3 for filtering ID's AFH ASS, and all surface caused all the remaining air tracks to be filtered also.									
18. CORRECTIVE ACTION						19. STR STATUS			
						STATUS		DATE	
						ASSIGNED		10/8/87	
						REVIEWED		10/8/87	
						REVIEWED			
						REVIEWED			
						ESTIMATED COMPLETION		
TESTED									
CLOSED									
PATCHED VERSION		21. FIXED VERSION		22. ESTIMATED DATE					
SIGNATURE									

SYSTEM TROUBLE REPORT

1. DATE 10/8/87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 (2) 3 4 5	4. STR NUMBER 87-847												
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) Cat Change doesn't work on Remote Tracks															
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED SPY Any Line													
8. SYSTEM KCF		9. PROGRAM VERSIONS: (AS APPLICABLE)													
DLC: 87-774 RSC: _____ ADS: _____		10. FUNCTION AFFECTED DLC / DSC													
DSC: 87-774 KSG: _____ CCOS: _____		11. TEST STEP													
DCU: _____ DCS: _____ TCOM EXEC: _____		12. LINKING WITH PDFA / TUNER													
DRR: _____ TCOM: _____ CMS-2: _____		13. ORIGINATOR (PRINT NAME) RFW/lee													
14. ASSIGNED TO Steinberg		15. PROBLEM DUPLICATED													
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">YES</td> <td style="width:33%;">NO</td> <td style="width:33%;">NA</td> </tr> <tr> <td style="text-align:center;">X</td> <td></td> <td></td> </tr> <tr> <td style="text-align:center;">X</td> <td></td> <td></td> </tr> <tr> <td style="text-align:center;">X</td> <td></td> <td></td> </tr> </table>		YES	NO	NA	X			X			X		
YES	NO	NA													
X															
X															
X															
16. SYSTEM STATUS															
17. TROUBLE DESCRIPTION The change category software will work on Local track with Accept/Reject functions - it does not force a Category change nor Alert of remote tracks. It gives local operator the CAT DIFF Alert - changes the CAT on local display until next report from Remote RR² unit.															
18. CORRECTIVE ACTION		19. STR STATUS													
		STATUS													
		DATE													
		ASSIGNED	10/8/87												
		REVIEWED	10/8/87												
		REVIEWED													
		REVIEWED													
		ESTIMATED COMPLETION	...												
TESTED															
CLOSED															
20. SIGNATURE		21. FIXED VERSION													
22. ESTIMATED DATE															

SYSTEM TROUBLE REPORT

Page of

1. DATE 10/8/87		2. CATEGORY (CIRCLE ONE) S D E L		3. PRIORITY (CIRCLE ONE) 1 2 3 4 5		4. STR NUMBER 97-048	
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) VOTRAX doesn't function after series of alert received							
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM ICCE	
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED	
BLE: _____		KSC: _____		ADS: _____		11. TEST STEP	
DSC: _____		KSG: _____		CCOS: _____		12. LINKING WITH	
DCU: _____		DES: _____		TCOM EXEC: _____		PDEA Tinker PC sub	
DRR: _____		TCOM: _____		CMS-2: _____			
13. ORIGINATOR (PRINT NAME) R Fend				14. ASSIGNED TO THOMAS			
15. PROBLEM DUPLICATED		YES		NO		16. SYSTEM STATUS	
DURING RUN		<input checked="" type="checkbox"/>		<input type="checkbox"/>			
AFTER RESTART		<input checked="" type="checkbox"/>		<input type="checkbox"/>			
AFTER RELOAD		<input type="checkbox"/>		<input type="checkbox"/>			
17. TROUBLE DESCRIPTION The VOTRAX voice ceases to respond on function after a series of system and track alerts.							
Software or Hardware?							
18. CORRECTIVE ACTION						19. STR STATUS	
						STATUS	
						DATE	
						ASSIGNED 10/8/87	
						REVIEWED	
						REVIEWED	
						REVIEWED	
						ESTIMATED COMPLETION	
20. PATCHED VERSION						21. FIXED VERSION	
22. ESTIMATED DATE						TESTED	
SIGNATURE						CLOSED	

-004 7/86

SYSTEM TROUBLE REPORT

1. DATE 10/8/87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5	4. STR NUMBER 87-249
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) TN Select of DLRN from L/T creatin.			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED RCI - SGT Down	8. SYSTEM ICCE
9. PROGRAM VERSIONS: (AS APPLICABLE) DLE: 87-274 RSC: AOS: _____ RSC: 87-274 RSG: CCOS: _____ DCU: DCS: TCOM EXEC: _____ DRR: TCOM: CMS-2: _____			10. FUNCTION AFFECTED DSC
			11. TEST STEP
			12. LINKING WITH PDFA - E-3
13. ORIGINATOR (PRINT NAME) R Fowler		14. ASSIGNED TO Thomas	
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD	YES	NO	NA
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. SYSTEM STATUS			
17. DETAILED DESCRIPTION Using TN select to hook A/E track from RSC to TADIL - the entry has to be RCI for the DLRN on TADIL side - once the TN select has been accomplished selecting other menus to perform action - the LINK ID appears - LINK ID: ID			
18. CORRECTIVE ACTION		19. STR STATUS	
		STATUS	DATE
		ASSIGNED	10/8/87
		REVIEWED	
		REVIEWED	
		REVIEWED	
ESTIMATED COMPLETION		
TESTED			
CLOSED			
20. TESTED VERSION	21. FIXED VERSION	22. ESTIMATED DATE	
SIGNATURE			

SYSTEM TROUBLE REPORT

1. DATE 10/8/87		2. CATEGORY (CIRCLE ONE) (5) D E L		3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5		4. STR NUMBER 87-E56																	
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) ESM FIX / Bearing Received in error																							
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM KCE																	
9. PROGRAM VERSIONS: (AS APPLICABLE) DLG: F7.279 KSC: ADS: _____ DSC: F7.274 KSG: ECOS: _____ DCU: DCS: TCOM EXEC: _____ DRR: TCOM: CMS-2: _____						10. FUNCTION AFFECTED DSC / DLG																	
						11. TEST STEP																	
						12. LINKING WITH PDFA - E3																	
13. ORIGINATOR (PRINT NAME) R Fowler				14. ASSIGNED TO Stenberg																			
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD		YES	NO	NA	16. SYSTEM STATUS																		
		X																					
		X																					
17. TROUBLE DESCRIPTION The ESM FIX is transmitted as Bearing - rec'd at E-3 Bearing - The ESM Bearing transmitted as Fix - rec'd at E-3 as fix Note: could be E-3A problem - check DX																							
18. CORRECTIVE ACTION						19. STR STATUS																	
						<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> </thead> <tbody> <tr> <td>ASSIGNED cg</td> <td>10/8/87</td> </tr> <tr> <td>REVIEWED</td> <td></td> </tr> <tr> <td>REVIEWED</td> <td></td> </tr> <tr> <td>REVIEWED</td> <td></td> </tr> <tr> <td>ESTIMATED COMPLETION</td> <td>...</td> </tr> <tr> <td>TESTED</td> <td></td> </tr> <tr> <td>CLOSED</td> <td></td> </tr> </tbody> </table>		STATUS	DATE	ASSIGNED cg	10/8/87	REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION	...	TESTED		CLOSED	
						STATUS	DATE																
						ASSIGNED cg	10/8/87																
						REVIEWED																	
						REVIEWED																	
						REVIEWED																	
ESTIMATED COMPLETION	...																						
TESTED																							
CLOSED																							
20. PATCHED VERSION		21. FIXED VERSION		22. ESTIMATED DATE																			
23. SIGNATURE																							

SYSTEM TROUBLE REPORT

1. DATE 10/7/87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 (2) 3 4 5	4. STR NUMBER 87-851
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) IFF/SIF management not functioning Local input			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED Dry Run SOT	8. SYSTEM ICCE
9. PROGRAM VERSIONS: (AS APPLICABLE) DLC: 87.279 KSC: _____ ADS: _____ DSC: 87.274 KSC: _____ ECOS: _____ DCU: _____ DES: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CMS-2: _____			10. FUNCTION AFFECTED DSC/DLC
			11. TEST STEP
			12. LINKING WITH PDFA to Twikes
13. ORIGINATOR (PRINT NAME) R Fowler		14. ASSIGNED TO Stenberg	
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD	YES	NO	NA
	<input checked="" type="checkbox"/>		
	<input checked="" type="checkbox"/>		
16. SYSTEM STATUS			
TROUBLE DESCRIPTION USE of IFF/SIF management switch to Request on MODE 3 on Remote track, clear mode 3 on Remote track or change Modes creates sequence error when the Local TADU-A unit takes the Action on the Remote track. The Remote track has the Reporting Responsibility.			
18. CORRECTIVE ACTION		19. STR STATUS	
		STATUS	DATE
		ASSIGNED OK	10/8/87
		REVIEWED	
		REVIEWED	
		REVIEWED	
		ESTIMATED COMPLETION	...
PATCHED VERSION		21. FIXED VERSION	22. ESTIMATED DATE
SIGNATURE		TESTED	
		CLOSED	

SYSTEM TROUBLE REPORT

DATE 07/07/87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5	4. STR NUMBER 87-852
TITLE (BRIEFLY DESCRIBE THE PROBLEM) AIRCRAFT STATUS MSG FREQUENCY WRONG			
REFERENCE DOCUMENT		7. DOCUMENT AFFECTED	8. SYSTEM ICCE
PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED
DLC: _____ KSC: _____ AOS: _____ DSC: _____ KSG: _____ CCOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CMS-2: _____			11. TEST STEP
			12. LINKING WITH
ORIGINATOR (PRINT NAME) A. DURTSCHZ		14. ASSIGNED TO A. DURTSCHZ	
PROBLEM REPLICATED DURING RUN AFTER RESTART AFTER RELOAD		YES NO NA <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	16. SYSTEM STATUS
TROUBLE DESCRIPTION Aircraft status messages Forwarded from ROCC to TADIL-A/B are being Transmitted multiple times per cycle			
CORRECTIVE ACTION			19. STR STATUS
			STATUS DATE
			ASSIGNED
			REVIEWED
			REVIEWED
			REVIEWED
			ESTIMATED COMPLETION
			TESTED
			CLOSED
PATCHED VERSION	21. FIXED VERSION	22. ESTIMATED DATE	
SIGNATURE			

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SY TEM TROUBLE REPORT.

DATE 10/08/87	2. CATEGORY (CIRCLE ONE) (5) D E L	3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5	4. STR NUMBER 87-853												
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) Transmit Frequencies NOT Reset For Change in Real Time															
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED													
8. SYSTEM ICCE															
9. PROGRAM VERSIONS: (AS APPLICABLE)		10. FUNCTION AFFECTED													
DLG: _____ KSC: _____ AOS: _____ DSC: _____ KSG: _____ CCOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CMS-2: _____															
11. TEST STEP															
12. LINKING WITH															
13. ORIGINATOR (PRINT NAME) A. DURTSCHI		14. ASSIGNED TO A. DURTSCHI													
15. PROBLEM DUPLICATED		16. SYSTEM STATUS													
DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">YES</td> <td style="width:25%;">NO</td> <td style="width:25%;">NA</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		YES	NO	NA									
YES	NO	NA													
17. TROUBLE DESCRIPTION Changing From Real Time to NRT, or vice versa, does not change the transmit frequencies on a track being transmitted on TADIL-A/B															
18. CORRECTIVE ACTION		19. STR STATUS													
		STATUS													
		DATE													
		ASSIGNED													
		REVIEWED													
		REVIEWED													
		REVIEWED													
		ESTIMATED COMPLETION													
20. PATCHED VERSION	21. FIXED VERSION	22. ESTIMATED DATE													
SIGNATURE		CLOSED													

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PLEASE SEE INSTRUCTIONS ON REVERSE SIDE OF FORM

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SYSTEM TROUBLE REPORT

1. DATE 10/05/87	2. CATEGORY (CIRCLE ONE) (5) D E L	3. PRIORITY (CIRCLE ONE) (1) 2 3 4 5	4. STR NUMBER 87-855																
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) DLC. CRASH AT 54137																			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED																	
8. SYSTEM ICCE																			
9. PROGRAM VERSIONS: (AS APPLICABLE)		10. FUNCTION AFFECTED																	
DLC: _____ KSC: _____ AOS: _____ DSC: _____ KSG: _____ CCOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CMS-2: _____		11. TEST STEP																	
		12. LINKING WITH																	
13. ORIGINATOR (PRINT NAME) A. DURTSCHI		14. ASSIGNED TO A. DURTSCHI																	
15. PROBLEM DUPLICATED		16. SYSTEM STATUS																	
DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">YES</td> <td style="width:25%;">NO</td> <td style="width:25%;">NA</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		YES	NO	NA													
YES	NO	NA																	
TROUBLE DESCRIPTION																			
The DLC has a crash at 54137 (Floating to Fixed Point overflow)																			
18. CORRECTIVE ACTION		19. STR STATUS																	
_____ _____ _____ _____ _____ _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> <tr><td>ASSIGNED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>ESTIMATED COMPLETION</td><td> </td></tr> <tr><td>TESTED</td><td> </td></tr> <tr><td>CLOSED</td><td> </td></tr> </table>		STATUS	DATE	ASSIGNED		REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION		TESTED		CLOSED	
		STATUS	DATE																
		ASSIGNED																	
		REVIEWED																	
		REVIEWED																	
		REVIEWED																	
ESTIMATED COMPLETION																			
TESTED																			
CLOSED																			
20. PATCHED VERSION	21. FIXED VERSION	22. ESTIMATED DATE																	
SIGNATURE																			

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SYSTEM TROUBLE REPORT

DATE 2-7-87	2. CATEGORY (CIRCLE ONE) S O E L	3. PRIORITY (CIRCLE ONE) 1 2 3 4 5	4. STR NUMBER 87-856												
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) Parameterize ROCC Lat/Lng Offset															
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED ICCE													
8. PROGRAM VERSIONS: (AS APPLICABLE) DLE: 87.274 KSC: ADS: _____ DSC: KSG: ECOS: _____ DCU: DCS: TCOM EXEC: _____ DRR: 87.274 TCOM: CMS-2: _____ PCO 87.274		9. FUNCTION AFFECTED DLC													
		10. TEST STEP													
		11. LINKING WITH													
12. ORIGINATOR (PRINT NAME) STEINBERG		13. ASSIGNED TO STEINBERG													
14. PROBLEM DUPLICATED		15. SYSTEM STATUS													
DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">YES</td> <td style="width:25%;">NO</td> <td style="width:25%;">NA</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		YES	NO	NA									
YES	NO	NA													
16. TROUBLE DESCRIPTION ROCC Grid Offset LAT/LNG can vary from site to site. Parameterize offset as global variable so that it can be easily modified & patched															
17. CORRECTIVE ACTION		18. STR STATUS													
		STATUS DATE													
		ASSIGNED													
		REVIEWED													
		REVIEWED													
		REVIEWED													
		ESTIMATED COMPLETION													
19. ATTACHED VERSION		20. FIXED VERSION													
21. ESTIMATED DATE		22. TESTED													
23. SIGNATURE		24. CLOSED													

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SYSTEM TROUBLE REPORT

DATE 10-8-87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 3 (4) 5	4. STR NUMBER 87-857																
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) T.Q. FORCED TO 7 - should be converted from Tell Merit																			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED																	
8. SYSTEM ICCE		9. PROGRAM VERSIONS: (AS APPLICABLE)																	
10. FUNCTION AFFECTED DLC		11. TEST STEP																	
12. LINKING WITH		13. ORIGINATOR (PRINT NAME) STEINBERG																	
14. ASSIGNED TO STEINBERG		15. PROBLEM DUPLICATED DURING RUN YES NO NA AFTER RESTART AFTER RELOAD																	
16. SYSTEM STATUS		17. PROBLEM DESCRIPTION an operator Tell Control Notify of KExec action in remote track AOL blk created K-TA set to 7. Should be set from current L.T. Merit symbology																	
18. CORRECTIVE ACTION OP. ATLC (ver. 2.24) & VERM (ver. 2.25) updated to convert Tell Merit to TA, rather than forcing TA to 7 10/8/87		19. STR STATUS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> </thead> <tbody> <tr><td>ASSIGNED</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>ESTIMATED COMPLETION</td><td>...</td></tr> <tr><td>TESTED</td><td></td></tr> <tr><td>CLOSED</td><td></td></tr> </tbody> </table>		STATUS	DATE	ASSIGNED		REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION	...	TESTED		CLOSED	
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ESTIMATED COMPLETION	...																		
TESTED																			
CLOSED																			
20. PATCHED VERSION		21. FIXED VERSION																	
22. ESTIMATED DATE		23. SIGNATURE																	

SYSTEM TROUBLE REPORT

DATE 10/9/87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5	4. STR NUMBER 87-258
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) General Pairing in ERROR			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED	
8. SYSTEM ICCF		9. FUNCTION AFFECTED DLC	
10. PROGRAM VERSIONS: (AS APPLICABLE)		11. TEST STEP SAT	
DLC: 57.280 RSC: ADS:		12. LINKING WITH PDFA - E-3	
DSC: 87.274 RSG: ECOS:			
DCU: DCS: TECH EXEC:			
DRR: TECH: CMS-2:			
13. ORIGINATOR (PRINT NAME) R Fowler		14. ASSIGNED TO	
15. PROBLEM DUPLICATED		16. SYSTEM STATUS	
DURING RUN		YES NO NA	
AFTER RESTART		X	
AFTER RELOAD			
17. PROBLEM DESCRIPTION A GEN pairing between interceptor and hostile AS accepted and transmitted TADIL-A			
18. CORRECTIVE ACTION			
19. STR STATUS			
		STATUS	DATE
		ASSIGNED	
		REVIEWED	
		REVIEWED	
		REVIEWED	
		ESTIMATED COMPLETION	• • • •
20. FIXED VERSION		TESTED	
21. FIXED VERSION		CLOSED	
22. ESTIMATED DATE			
23. SIGNATURE			

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SYSTEM TROUBLE REPORT

1. DATE 10/09/87		2. CATEGORY (CIRCLE ONE) (5) D E L		3. PRIORITY (CIRCLE ONE) 1 (2) 3 4 5		4. STR NUMBER 87-859			
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) TRACK FILTERING LOCKS OUT HIGHER PRIORITY DATA LINKS									
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM ALL			
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED			
DLC:		RSC:		ADS:					
DSC:		RSG:		ECOS:					
DCU:		DCS:		TCOM EXEC:					
DRR:		TCOM:		CMS-2:					
13. ORIGINATOR (PRINT NAME) A. DURTSCHZ				14. ASSIGNED TO A. DURTSCHZ					
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD			YES	NO	NA	16. SYSTEM STATUS			
17. TUBLE DESCRIPTION Transmit task loops thru all tracks being filtered without relinquishing control for higher priority Data Link Functions.									
18. CORRECTIVE ACTION						19. STR STATUS			
						STATUS		DATE	
						ASSIGNED			
						REVIEWED			
						REVIEWED			
						REVIEWED			
20. PATCHED VERSION						ESTIMATED COMPLETION			
						TESTED			
						CLOSED			
21. FIXED VERSION		22. ESTIMATED DATE							
23. SIGNATURE									

SYST.A TROUBLE REPORT

1. ID# <u>10A/87</u>	2. CATEGORY (CIRCLE ONE) <u>(5) D E L</u>	3. PRIORITY (CIRCLE ONE) <u>1 2 3 (4) 5</u>	4. STR NUMBER <u>87-860</u>																
5. PROBLEM (BRIEFLY DESCRIBE THE PROBLEM) <u>did not sort a file that was archived to disk.</u>																			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED	8. SYSTEM <u>ICCE</u>																
9. PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED <u>Sort.</u>																
9A. DLE: _____ RSC: _____ ADS: _____ 9B. DSC: _____ RSG: _____ ECOS: _____ 9C. DEU: _____ DES: _____ TECH EXEC: _____ 9D. ARR: <u>87 274</u> TECH: _____ CMS-2: _____			11. TEST STEP <u>N/A</u>																
			12. LINKING WITH <u>N/A</u>																
13. INITIATOR (PRINT NAME) <u>Brown</u>		14. ASSIGNED TO <u>B. Crawford</u>																	
15. PROBLEM DUPLICATED		16. SYSTEM STATUS																	
DURING RUN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA AFTER RESTART <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA AFTER RELOAD <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA																			
17. PROBLEM DESCRIPTION <u>Archiving a file to disk I entered a filename (TAI) in the</u> <u>WE CONTROL data entry form. This received action accepted</u> <u>user when trying to sort this file I received the following</u> <u>FROM PDM 8: ARF: AOS SYS CALL ERROR: 0010 02004 FROM PDM 8:</u> <u>- 0010 000026 error message (these error messages were repeated</u> <u>14) (The sort command entered was ^{as shown on} the attached page 3.)</u> 18. EFFECTIVE ACTION																			
		19. STR STATUS																	
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> </thead> <tbody> <tr> <td>ASSIGNED</td> <td><u>11 10-9-87</u></td> </tr> <tr> <td>REVIEWED</td> <td></td> </tr> <tr> <td>REVIEWED</td> <td></td> </tr> <tr> <td>REVIEWED</td> <td></td> </tr> <tr> <td>ESTIMATED COMPLETION</td> <td><u>...</u></td> </tr> <tr> <td>TESTED</td> <td></td> </tr> <tr> <td>CLOSED</td> <td></td> </tr> </tbody> </table>		STATUS	DATE	ASSIGNED	<u>11 10-9-87</u>	REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION	<u>...</u>	TESTED		CLOSED	
		STATUS	DATE																
		ASSIGNED	<u>11 10-9-87</u>																
		REVIEWED																	
		REVIEWED																	
		REVIEWED																	
ESTIMATED COMPLETION	<u>...</u>																		
TESTED																			
CLOSED																			
20. FIXED VERSION	21. FIXED VERSION	22. ESTIMATED DATE																	
23. NATURE																			

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SYSTEM TROUBLE REPORT

DATE 6/28/87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 3 (4) 5	4. STR NUMBER 87-861																
TITLE (BRIEFLY DESCRIBE THE PROBLEM) could not dx an unsorted file from tape on file 1 (@HTAQ:1)																			
REFERENCE DOCUMENT		7. DOCUMENT AFFECTED	8. SYSTEM ICPE																
PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED OFF-line DX																
DLE: _____ KSC: _____ ADS: _____ DSE: _____ KSG: _____ ECOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DRR: 87.274 TCOM: _____ CMS-2: _____			11. TEST STEP N/A																
			12. LINKING WITH N/A																
ORIGINATOR (PRINT NAME) K. Brown		14. ASSIGNED TO B. Crawford																	
PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td>YES</td> <td>NO</td> <td>NA</td> </tr> <tr> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>✓</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>✓</td> </tr> </table>	YES	NO	NA	✓			✓					✓	16. SYSTEM STATUS				
YES	NO	NA																	
✓																			
✓																			
		✓																	
17. FILE DESCRIPTION ARCHIVE CONTROL filename is @HTAQ:1 you cannot run line data reduction this file entering a DX filename of @HTAQ:1 when attempted the following error message is received: ROM PID 8: DRO: AOS SYS CALL ERROR: 0000 002011 FROM PID 8. ---- 0010 000000 000000 000000 (this message was echoed by PID 4) KN FROM PID 8: OFFLINE DX IS COMPLETE (also echoed by PID 4)																			
CORRECTIVE ACTION			19. STR STATUS																
			<table border="1" style="border-collapse: collapse; width:100%;"> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> <tr> <td>ASSIGNED</td> <td>6A 10-9-87</td> </tr> <tr> <td>REVIEWED</td> <td></td> </tr> <tr> <td>REVIEWED</td> <td></td> </tr> <tr> <td>REVIEWED</td> <td></td> </tr> <tr> <td>ESTIMATED COMPLETION</td> <td>- . . .</td> </tr> <tr> <td>TESTED</td> <td></td> </tr> <tr> <td>CLOSED</td> <td></td> </tr> </table>	STATUS	DATE	ASSIGNED	6A 10-9-87	REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION	- . . .	TESTED		CLOSED	
			STATUS	DATE															
			ASSIGNED	6A 10-9-87															
			REVIEWED																
			REVIEWED																
			REVIEWED																
			ESTIMATED COMPLETION	- . . .															
TESTED																			
CLOSED																			
20. FIXED VERSION 21. FIXED VERSION 22. ESTIMATED DATE																			
23. NATURE 24. NATURE																			

SYSTEM TROUBLE REPORT

DATE <i>2 Oct 87</i>		2. CATEGORY (CIRCLE ONE) S D E L		3. PRIORITY (CIRCLE ONE) 1 2 3 4 5		4. STR NUMBER <i>87-862</i>			
TITLE (BRIEFLY DESCRIBE THE PROBLEM) <i>CRT's Console Unit #1 need adjustment</i>									
REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM <i>KCE</i>			
PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED			
DLC:		RSC:		ADS:		11. TEST STEP			
DSC:		KSG:		ECDS:					
DCU:		DCS:		TCOM EXEC:					
DRR:		TCOM:		CMS-2:					
13. ORIGINATOR (PRINT NAME) <i>R Fowler</i>				14. ASSIGNED TO					
15. PROBLEM DUPLICATED		YES		NO		16. SYSTEM STATUS			
		DURING RUN							
		AFTER RESTART							
		AFTER RELOAD							
17. DETAILED DESCRIPTION									
<i>CRT color's are faded - yellow doesn't appear as yellow -</i>									
18. CORRECTIVE ACTION						19. STR STATUS			
						STATUS		DATE	
						ASSIGNED			
						REVIEWED			
						REVIEWED			
						REVIEWED			
						ESTIMATED COMPLETION		
						TESTED			
CLOSED									
20. FIXED VERSION		21. FIXED VERSION		22. ESTIMATED DATE					
23. SIGNATURE									

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SYSTEM TROUBLE REPORT

1. DATE 1/12/87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5	4. STR NUMBER 87-864
5. (BRIEFLY DESCRIBE THE PROBLEM) Initiated Special Processing Airtrack / No Hook Remote			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED App F	8. SYSTEM ICCE
9. PROGRAM VERSIONS: (AS APPLICABLE) DLC: 87-282 RSC: _____ ADS: _____ RSC: 87-285 RSG: _____ ECOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CMS-2: _____			10. FUNCTION AFFECTED DLC
			11. TEST STEP Event 4 - step 12, 13
			12. LINKING WITH Loopback
13. INITIATOR (PRINT NAME) Fowler		14. ASSIGNED TO A. Duetschi	
15. PROBLEM DUPLICATED		16. SYSTEM STATUS	
DURING RUN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA AFTER RESTART <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA AFTER RELOAD <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA			
17. PROBLEM DESCRIPTION The initiation of special processing airtrack appears not transmit in loopback environment - Track had no Hdq, and TQ DLRN 1002.			
18. CORRECTIVE ACTION		19. STR STATUS	
		STATUS	
		DATE	
		ASSIGNED	
		REVIEWED	
		REVIEWED	
		REVIEWED	
ESTIMATED COMPLETION		
TESTED			
CLOSED			
20. FIXED VERSION	21. FIXED VERSION	22. ESTIMATED DATE	
23. SIGNATURE			

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SYST 1 TROUBLE REPORT

-13-87	2. CATEGORY (CIRCLE ONE) <u>(S)</u> D E L	3. PRIORITY (CIRCLE ONE) 1 <u>(2)</u> 3 4 5	4. STR NUMBER 87-865
TITLE (BRIEFLY DESCRIBE THE PROBLEM) <u>DRR does not post all messages for off-line DX</u>			
REFERENCE DOCUMENT		7. DOCUMENT AFFECTED	8. SYSTEM <u>ICCE</u>
PROGRAM VERSIONS: (AS APPLICABLE) <u>RELEASE 285</u>			10. FUNCTION AFFECTED <u>OFF-LINE DX</u>
DLC:	KSC:	ADS:	11. TEST STEP <u>CPTX APPF</u>
DSC:	KSG:	CCOS:	12. LINKING WITH
DCU:	DCS:	TCOM EXEC:	
DRR: <u>285</u>	TCOM:	CMS-2:	
ORIGINATOR (PRINT NAME) <u>P. CLARK</u>		14. ASSIGNED TO <u>B. CRAWFORD</u>	
PROBLEM DUPLICATED	YES	NO	16. SYSTEM STATUS
DURING RUN			
AFTER RESTART			
AFTER RELOAD.			
TROUBLE DESCRIPTION <u>See the attached script.</u>			
<u>A "TON ACCEPTED" was received for all actions, display was correct - but off-line DX failed to show messages that should have been there - (script is noted for those messages which were absent - DX is also available)</u>			
CORRECTIVE ACTION			19. STR STATUS
			STATUS DATE
			ASSIGNED
			REVIEWED
			REVIEWED
			REVIEWED
			ESTIMATED COMPLETION
			TESTED
			CLOSED
ATTACHED VERSION	21. FIXED VERSION	22. ESTIMATED DATE	
5. NATURE			

TEXT

TEXT ----- SCRI. IADIL A.2 EVENTS 1 - 4 APPENDIX A -----

TEXT

TEXT ----- EVENT 1 APPENDIX H -----

TEXT

DO005 CNL 1

TEXT

DO010 SDC S,00,00,00,N,000,00,00,E,00,00,00,N,000,00,00,E

TEXT

DO010 CNL TA1,B,N,,TA2

DO010 CNL TA2,B,S,,TA1

DO010 IFUB TA1,010,100,100,L,08,,010,180,1000,1776E

.....M,Y,H

DO030 IFUB TA2,020,-100,-100,A,05,05000,050,360,2000,2776E

.....M,Y

DO020 IATB TA1,1000,010,50,50,SI,3,7,050,MN,0500,270,12,2222,E

3333,V,,N,F

DO020 ISPB TA2,2000,020,-50,-50,REF,0,00300,045,090,INT,0100,Y

DO020 ISTB TA1,1001,010,100,-100,UE,0,0,012,270,11,2232,E - NOT GET

3323,I,0200,Y,M,SAM,AAW,H

DO020 ISUB TA1,1002,010,-100,100,H,SUB,0100,06,010,C,090,E

07,CSB,3,2,10,2,,N,12,MLY,N,CM

DO020 IECM TA1,1003,010,1002,RAD,1,045,SS,090,,2,027000,U,E

N,20.00

DO020 IESM TA2,2002,020,150,150,ASM,3,B,MIA,180,,010176,2,U,E - BECAUSE NOT
3,21637,12,09,SPY FIX

DO020 EWIN TA1,1001,010,LND,04,Y,27,UNA,12,05,11,0010,,1267 - NO

DO020 ESMP TA2,2002,020,09,1000,,3,1,0287,020162,1

TEXT

TEXT ----- EVENT 2 APPENDIX H -----

DO060 CRLB TA2,1000,020,AHG,0,7 - NO GO

DO010 TNSL TA2,1000,H

DO050 BRID

DO090 BAID

DO020 CDOB TA1,1000,010,ASI,3 - NO GO

DO045 DURE TA1,010,020 - NO GO

DO020 DRTR TA1,1003,010 - NO GO - only local dropped/1217/12

DO020 TALB TA1,1001,010,E - NO

DO020 TALB TA1,1002,010,F

DO030 TALB TA1,1001,010,TE - NO

DO030 TALB TA1,1002,010,TF - NOT GET

DO030 IFFM TA1,1000,010,M2,1234 - WRONG MESSAGE AND NOT OLD VALUE

DO030 FNTR TA2,020,-75,75,010,T

DO030 TSIN TA1,1000,010,KB0027,02613,227.000,JB01,227.000 - NO GO

DO030 TNAB TA1,2000,010 - NO GO

DO030 CTRK TA1,1000,010,A

DO030 PASB TA1,1000,010,0010,GEN - NO GO

DO030 TNAB TA2,1000,020,AA001,JB001

TEXT

TEXT ----- EVENT 3 APPENDIX H -----

TEXT

DO030 FITB II01,A,Y,Y,N,N,N,N,Y,N,N,Y,N,Y,N,N,N,Y,N,N,Y,Y,N,N,Y,N

DO005 HOLD

DO045 FDTB NI01,A,1000,1001,2000,2002

DO045 FITB IE01,A,Y,Y,Y,Y,N,Y,Y,Y,Y,Y,Y,Y,Y,Y,Y,Y,Y,Y,Y,Y,Y,Y

DO045 FDTB NE01,A,1000,1002,2000,2002

DO005 HOLD

DO020 GFAA

DO005 HOLD

TEXT

NO
FILED

MESSAGE
AT 1100

TEXT ----- F 'T 4 APPENDIX H -----

TEXT

DO045 ACIN TA1,1000,010,020

DO045 AIRS TA1,1000,010,F16,500,,050,050,100,000,N,N,N,N

DO075 CMND TA1,1002,010,020,ASN,0010,2

DO045 WPSB TA1,1000,010,,RDY,2,CON,L,N,120,22

DO045 WALT TA1,010,177,Y,F

DO045 WPSB TA1,1000,010,1001,ASG

DO045 WPSB TA1,1000,010,1001,BRK

DO045 OOMB TA2,020,12345670,2,07654321,04 - no go - EAC should be ...

DO045 OOMB TA2,020,00420411,3,00201000,01

DO015 TNSL TA1,1000,H

DO060 BRID

DO300 RCTL T

None in DX
main C.Y.

SYSTEM TROUBLE REPORT

DATE 1/13/87	2. CATEGORY (CIRCLE ONE) <u>(S)</u> <u>D</u> <u>E</u> <u>L</u>	3. PRIORITY (CIRCLE ONE) 1 2 3 4 <u>(5)</u>	4. STR NUMBER 87-866														
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) Menu Title disappears when Alt track menu is used																	
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED App F CPT+E	8. SYSTEM ICCE														
9. PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED DSC														
DLE: _____ RSC: _____ ADS: _____ DSC: 87.274 RSG: _____ ECDS: _____ DEU: _____ DCS: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CMS-2: _____			11. TEST STEP Event 2 skip 6														
			12. LINKING WITH Loopback														
13. ORIGINATOR (PRINT NAME) R Fowler		14. ASSIGNED TO															
15. PROBLEM DUPLICATED		16. SYSTEM STATUS															
DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">YES</td> <td style="width:10%;">NO</td> <td style="width:10%;">NA</td> </tr> <tr> <td style="text-align:center;">X</td> <td></td> <td></td> </tr> <tr> <td style="text-align:center;">X</td> <td></td> <td></td> </tr> <tr> <td style="text-align:center;">X</td> <td></td> <td></td> </tr> </table>		YES	NO	NA	X			X			X				
YES	NO	NA															
X																	
X																	
X																	
17. PROBLEM DESCRIPTION Alt track selection erases the title of a data entry menu.																	
18. CORRECTIVE ACTION		19. STR STATUS															
		STATUS															
		DATE															
		ASSIGNED															
		REVIEWED															
		REVIEWED															
		REVIEWED															
		ESTIMATED COMPLETION														
20. ATTACHED VERSION	21. FIXED VERSION	22. ESTIMATED DATE															
SIGNATURE		CLOSED															

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SYSTEM TROUBLE REPORT

1. DATE 10/13/87		2. CATEGORY (CIRCLE ONE) (8) D E L		3. PRIORITY (CIRCLE ONE) (1) 2 3 4 5		4. STR NUMBER 87-872	
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) RANDOM DLC PROCESS ABORT IN MZBDH							
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM ICCE	
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED	
DLC:		RSC:		AOS:			
DSC:		RSG:		ECOS:			
DCU:		DCS:		TCOM EXEC:			
DBR:		TCOM:		CMS-2:			
11. TEST STEP							
12. LINKING WITH							
3. ORIGINATOR (PRINT NAME) A. DURTSCHI				14. ASSIGNED TO A. DURTSCHI			
5. PROBLEM DUPLICATED		YES	NO	NA	16. SYSTEM STATUS		
DURING RUN							
AFTER RESTART							
AFTER RELOAD							
7. PROBLEM DESCRIPTION The DLC Special Message Generation routine (MZSMG) is not checking for sufficient buffer space when building messages, causing random DLC aborts.							
8. CORRECTIVE ACTION						19. STR STATUS	
						STATUS	DATE
						ASSIGNED	
						REVIEWED	
						REVIEWED	
						REVIEWED	
						ESTIMATED COMPLETION
10. PATCHED VERSION						21. FIXED VERSION	
22. ESTIMATED DATE							
13. SIGNATURE						TESTED	
						CLOSED	

SYSTEM TROUBLE REPORT

1. DATE Oct 87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 3 (4) 5	4. STR NUMBER 87-873
5. PROBLEM (BRIEFLY DESCRIBE THE PROBLEM) EF-71 in error with IDS			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED App B EDENT 16	8. SYSTEM ICCE
9. PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED DSC
FILE:	RSC:	ADS:	11. TEST STEP 119
OSC: 87.274	RSC:	CCOS:	
OCU:	DCS:	TCOM EXEC:	
ORR:	TCOM:	CHS-2:	
12. SIGNATOR (PRINT NAME) Paul		14. ASSIGNED TO	
13. PROBLEM DUPLICATED		16. SYSTEM STATUS	
DURING RUN	YES	NO	NA
AFTER RESTART	X		
AFTER RELOAD			
17. PROBLEM DESCRIPTION POCC TN field in Peer track in error with (redlined), needed default value as blank.			
18. CORRECTIVE ACTION		19. STR STATUS	
		STATUS	DATE
		ASSIGNED	
		REVIEWED	
		REVIEWED	
		REVIEWED	
		ESTIMATED COMPLETION	...
		TESTED	
20. FIXED VERSION	21. FIXED VERSION	22. ESTIMATE	23. DATE
24. NATURE		25. CLOSED	

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SYSTEM TROUBLE REPORT

5 Oct 87		2. CATEGORY (CIRCLE ONE) <u>(S) D E L</u>		3. PRIORITY (CIRCLE ONE) <u>1 2 3 (4) 5</u>		4. STR NUMBER <u>87-874</u>	
TITLE (BRIEFLY DESCRIBE THE PROBLEM) <u>The M4B did not receive filtered message.</u>							
REFERENCE DOCUMENT <u>1001576/01 F</u>			7. DOCUMENT AFFECTED <u>CPTIE App I</u>			8. SYSTEM <u>ICCF</u>	
PROGRAM VERSIONS: (AS APPLICABLE)					10. FUNCTION AFFECTED <u>Data Reduction</u>		
DLC: _____		RSC: _____		ADS: _____		11. TEST STEP <u>Event 3 Steps 45-50</u>	
DSC: _____		KSG: _____		ECOS: _____		12. LINKING WITH <u>N/A</u>	
DCU: _____		DCS: _____		TCOM EXEC: _____			
DDR: <u>87.27</u>		TCOM: _____		CMS-2: _____			
ORIGINATOR (PRINT NAME) <u>L. Brown</u>				14. ASSIGNED TO <u>N/A</u>			
PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD		YES		NO		NA	
		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
16. SYSTEM STATUS							
TROUBLE DESCRIPTION <u>In TX filter was activated all messages were</u> <u>ctly identified with the FILTERED MESSAGE with</u> <u>the exception of the M4B.</u>							
CORRECTIVE ACTION					19. STR STATUS		
					STATUS		DATE
					ASSIGNED		
					REVIEWED		
					REVIEWED		
					REVIEWED		
					ESTIMATED COMPLETION	
					TESTED		
CLOSED							
ATTACHED VERSION		21. FIXED VERSION		22. ESTIMATED DATE			
SI		URE					

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SYSTEM TROUBLE REPORT

1. DATE Oct 87		2. CATEGORY (CIRCLE ONE) S <u>(D)</u> E L		3. PRIORITY (CIRCLE ONE) 1 2 3 4 <u>(5)</u>		4. STR NUMBER 87-875	
5. PROBLEM (BRIEFLY DESCRIBE THE PROBLEM) and GEO AREA E boundaries to allow more time for scenario							
6. REFERENCE DOCUMENT 1571/62T			7. DOCUMENT AFFECTED CPT's App H & script.			8. SYSTEM ICCE	
9. PROGRAM VERSIONS: (AS APPLICABLE) PROC: _____ RSC: _____ ADS: script tape 1600. DSC: _____ RSG: _____ ECOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CMS-2: _____				10. FUNCTION AFFECTED procedure/script.			
				11. TEST STEP N/A			
				12. LINKING WITH TA1-TA2 Loopback			
13. ORIGINATOR (PRINT NAME) BROWN				14. ASSIGNED TO			
15. PROBLEM DUPLICATED		YES	NO	NA	16. SYSTEM STATUS		
DURING RUN		/					
AFTER RESTART		/					
AFTER RELOAD				/			
17. PROBLEM DESCRIPTION is necessary to expand the boundaries defined for graphic AREA 3.E. When the filter was activated by this AREA one of the tracks had already moved off the AREA. Procedural & script change necessary.							
18. CORRECTIVE ACTION					19. STR STATUS		
					STATUS		DATE
					ASSIGNED		
					REVIEWED		
					REVIEWED		
					REVIEWED		
					ESTIMATED COMPLETION		- . . .
20. FIXED VERSION					21. FIXED VERSION		22. ESTIMATED DATE
					TESTED		
23. SIGNATURE					CLOSED		

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SYSTEM TROUBLE REPORT

1. DATE 19 Oct 87		2. CATEGORY (CIRCLE ONE) S D <u>E</u> L		3. PRIORITY (CIRCLE ONE) 1 <u>2</u> 3 4 5		4. STR NUMBER 87-876			
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) Right CRT out Conus Unit #1									
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM ICCE			
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED			
DLC:		RSC:		ADS:					
DSC:		RSG:		CCDS:					
DCU:		DCS:		TCOM EXEC:					
DRR:		TCOM:		CMS-2:					
11. TEST STEP				12. LINKING WITH					
13. ORIGINATOR (PRINT NAME) R Fowler				14. ASSIGNED TO					
15. PROBLEM DUPLICATED		YES		NO		NA			
DURING RUN									
AFTER RESTART									
AFTER RELOAD									
16. SYSTEM STATUS									
TROUBLE DESCRIPTION Tried to initialize Conus Unit #1 and Right CRT would not power up.									
18. CORRECTIVE ACTION						19. STR STATUS			
						STATUS		DATE	
						ASSIGNED			
						REVIEWED			
						REVIEWED			
						REVIEWED			
						ESTIMATED COMPLETION			
20. PATCHED VERSION						21. FIXED VERSION		22. ESTIMATED DATE	
SIGNATURE						TESTED			
						CLOSED			

SYSTEM TROUBLE REPORT

Page of

DATE 0-20-87		2. CATEGORY (CIRCLE ONE) (5) D E L		3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5		4. STR NUMBER 87-877			
TITLE (BRIEFLY DESCRIBE THE PROBLEM) TN BLOCK ALTITUDE INCORRECT									
REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM ICCF			
PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED DSC			
DLC: 87.289		KSC: CCOS:		ADS: TECOM EXEC:		11. TEST STEP			
DCU: TECOM:		DCS: CHS-2:		12. LINKING WITH					
ORIGINATOR (PRINT NAME) R THOMAS				14. ASSIGNED TO R THOMAS					
PROBLEM DUPLICATED		YES		NO		NA			
DURING RUN									
AFTER RESTART									
AFTER RELOAD									
16. SYSTEM STATUS									
TROUBLE DESCRIPTION TN BLOCK ALTITUDE IS DISPLAYED IN TENS OF THOUSANDS OF FEET. IT SHOULD BE IN THOUSANDS OF FEET. IF ALT > 100,000 FT FORCE IT TO 99.									
CORRECTIVE ACTION Ref G.P. 627K.57 REV 2, 22.						19. STR STATUS			
						STATUS			
						DATE			
						ASSIGNED JS		10/20/87	
						REVIEWED			
						REVIEWED			
						REVIEWED			
ESTIMATED COMPLETION						TESTED			
CLOSED									
ATCHED VERSION		21. FIXED VERSION		22. ESTIMATED DATE					
SIGNATURE									

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: PLEASE SEE INSTRUCTIONS ON REVERSE SIDE OF FORM

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SYSTEM TROUBLE REPORT

1. DATE 21 Oct 87		2. CATEGORY (CIRCLE ONE) (B) D E L		3. PRIORITY (CIRCLE ONE) 1 2 3 (4) 5		4. STR NUMBER 87-878	
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) NO ROC ID CHG Alert							
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED App B		8. SYSTEM ICCE	
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED	
DLC: 87-258		RSC:		ADS:		11. TEST STEP Event 5 24	
DSC:		KSG:		ECOS:		12. LINKING WITH ROCC RADIL Corp	
DCU:		DPS:		TCOM EXEC:			
DRR:		TCOM:		CMS-2:			
13. ORIGINATOR (PRINT NAME) R. Wulka				14. ASSIGNED TO D. Dutschke			
15. PROBLEM DUPLICATED		YES		NO		NA	
DURING RUN		X					
AFTER RESTART							
AFTER RELOAD							
16. SYSTEM STATUS							
17. DETAILED DESCRIPTION The change of ID from the local ROCC work told out for information by the SIM RADIL unit from Friend to Hostile didn't create ROCC ID CHG nor diff Alert.							
18. CORRECTIVE ACTION						19. STR STATUS	
						STATUS	
						DATE	
						ASSIGNED	
						REVIEWED	
						REVIEWED	
						REVIEWED	
20. ESTIMATED COMPLETION						...	
21. FIXED VERSION						TESTED	
22. ESTIMATED DATE						CLOSED	
23. NATURE							

SYSTEM TROUBLE REPORT

1. DATE <i>Oct 87</i>	2. CATEGORY (CIRCLE ONE) <i>(B) D E L</i>	3. PRIORITY (CIRCLE ONE) <i>1 2 (3) 4 5</i>	4. STR NUMBER <i>87-877</i>																
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) <i>RCC Special Print initiated as Sim</i>																			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED <i>1638 App B</i>	8. SYSTEM <i>ICCE</i>																
9. PROGRAM VERSIONS: (AS APPLICABLE) DLG: <i>87-258</i> RSC: ADS: _____ DSC: <i>87-274</i> KSG: ECOS: _____ DCU: DCS: TCOM EXEC: _____ DRR: TCOM: CMS-2: _____			10. FUNCTION AFFECTED																
11. TEST STEP <i>Event 11 Skd 3</i>			12. LINKING WITH <i>RCC - Eng system</i>																
13. ORIGINATOR (PRINT NAME) <i>R Fowler</i>		14. ASSIGNED TO <i>Steinberg</i>																	
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD		16. SYSTEM STATUS																	
<table border="1"><tr><td>YES</td><td>NO</td><td>NA</td></tr><tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>		YES	NO	NA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
YES	NO	NA																	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
17. PROBLEM DESCRIPTION <i>Re RCC Special Print when initiated is entered the data base as Sim - thus the referenced RN for the Print is not transmitted to TADIL</i>																			
18. PRELIMINARY ACTION		19. STR STATUS																	
		<table border="1"><tr><th>STATUS</th><th>DATE</th></tr><tr><td>ASSIGNED</td><td></td></tr><tr><td>REVIEWED</td><td></td></tr><tr><td>REVIEWED</td><td></td></tr><tr><td>REVIEWED</td><td></td></tr><tr><td>ESTIMATED COMPLETION</td><td><i>.....</i></td></tr><tr><td>TESTED</td><td></td></tr><tr><td>CLOSED</td><td></td></tr></table>		STATUS	DATE	ASSIGNED		REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION	<i>.....</i>	TESTED		CLOSED	
STATUS	DATE																		
ASSIGNED																			
REVIEWED																			
REVIEWED																			
REVIEWED																			
ESTIMATED COMPLETION	<i>.....</i>																		
TESTED																			
CLOSED																			
20. FIXED VERSION	21. FIXED VERSION	22. ESTIMATED DATE																	
23. SIGNATURE																			

4 7/86

2861

SYSTEM TROUBLE REPORT

1. DATE 21 Oct 87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 3 (4) 5	4. STR NUMBER 87-880																
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) RCC track number assigned additional Zero																			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED App B	8. SYSTEM KCE																
9. PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED ICCE																
DLE: 87 274 RSC: _____ ADS: _____ DSC: 87 274 RSG: _____ ECOS: _____ DCU: _____ DES: _____ TECH EXEC: _____ DRR: _____ TCOM: _____ EMS-2: _____			11. TEST STEP																
			12. LINKING WITH																
13. ORIGINATOR (PRINT NAME) Rhodes		14. ASSIGNED TO R Thomas																	
15. PROBLEM DUPLICATED		16. SYSTEM STATUS																	
DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">YES</td> <td style="width:25%;">NO</td> <td style="width:25%;">NA</td> </tr> <tr> <td style="text-align:center;">X</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>		YES	NO	NA	X												
YES	NO	NA																	
X																			
17. FILE DESCRIPTION During a system restart to go to App B inputs - RCC link became active - the tracks taken out for information appeared on display with COLL displayed as COLL.																			
18. CORRECTIVE ACTION			19. STR STATUS																
			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> <tr><td>ASSIGNED</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>REVIEWED</td><td></td></tr> <tr><td>ESTIMATED COMPLETION</td><td>.....</td></tr> <tr><td>TESTED</td><td></td></tr> <tr><td>CLOSED</td><td></td></tr> </table>	STATUS	DATE	ASSIGNED		REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION	TESTED		CLOSED	
STATUS	DATE																		
ASSIGNED																			
REVIEWED																			
REVIEWED																			
REVIEWED																			
ESTIMATED COMPLETION																		
TESTED																			
CLOSED																			
20. PATCHED VERSION		21. FIXED VERSION	22. ESTIMATED DATE																
23. SIGNATURE																			

SYSTEM TROUBLE REPORT

1. DATE 23/87	2. CATEGORY (CIRCLE ONE) ③ D E L	3. PRIORITY (CIRCLE ONE) 1 2 ③ 4 5	4. STR NUMBER 87-881
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) ROCC TV ACQUISITION ERROR			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED	8. SYSTEM ICCE
9. PROGRAM VERSIONS: (AS APPLICABLE) DLC: _____ KSC: _____ ADS: _____ DSC: _____ KSG: _____ CCOS: _____ DCU: _____ DES: _____ TECH EXEC: _____ DRR: _____ TECH: _____ CMS-2: _____			10. FUNCTION AFFECTED
11. TEST STEP			12. LINKING WITH
13. ORIGINATOR (PRINT NAME) A. DURTSCHI		14. ASSIGNED TO A. DURTSCHI	
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD		16. SYSTEM STATUS	
17. PROBLEM DESCRIPTION Acquiring ROCC Track Numbers sometimes results in "ILLEGAL ACTION" error			
18. CORRECTIVE ACTION		19. STR STATUS	
		STATUS DATE	
		ASSIGNED	
		REVIEWED	
		REVIEWED	
		REVIEWED	
		ESTIMATED COMPLETION	
		TESTED	
		CLOSED	
20. CHANGED VERSION	21. FIXED VERSION	22. ESTIMATED DATE	
SIGNATURE			

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SYSTEM TROUBLE REPORT.

1. DATE 10/23/87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 3 (4) 5	4. STR NUMBER 87-882														
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) DX APPLIES TN FILTER TO NATIONAL MESSAGE																	
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED															
8. SYSTEM ICCE																	
9. PROGRAM VERSIONS: (AS APPLICABLE)		10. FUNCTION AFFECTED															
DLC: _____ KSC: _____ AOS: _____ DSC: _____ KSG: _____ CCOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CMS-2: _____																	
11. TEST STEP																	
12. LINKING WITH																	
13. ORIGINATOR (PRINT NAME) A. DURT SCHI		14. ASSIGNED TO W. CRAWFORD															
15. PROBLEM DUPLICATED		16. SYSTEM STATUS															
DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">YES</td> <td style="width:33%;">NO</td> <td style="width:33%;">NA</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		YES	NO	NA											
YES	NO	NA															
17. TROUBLE DESCRIPTION																	
With Track Number Filtering Turned ON, Some National Messages are being Selected for output.																	
18. CORRECTIVE ACTION		19. STR STATUS															
_____ _____ _____ _____ _____ _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> <tr> <td>ASSIGNED</td> <td> </td> </tr> <tr> <td>REVIEWED</td> <td> </td> </tr> <tr> <td>REVIEWED</td> <td> </td> </tr> <tr> <td>REVIEWED</td> <td> </td> </tr> <tr> <td>ESTIMATED COMPLETION</td> <td> </td> </tr> </table>		STATUS	DATE	ASSIGNED		REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION			
		STATUS	DATE														
		ASSIGNED															
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		REVIEWED															
		REVIEWED															
ESTIMATED COMPLETION																	
TESTED																	
CLOSED																	
20. PATCHED VERSION		21. FIXED VERSION															
22. ESTIMATED DATE																	
SIGNATURE																	

SYSTEM TROUBLE REPORT

1. DATE 10-22-87		2. CATEGORY (CIRCLE ONE) S (D) E L		3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5		4. STR NUMBER 87-884			
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) EF60-Update ROCC Data - Overwrites Initial Values									
6. REFERENCE DOCUMENT EXTERNAL IOS Part II				7. DOCUMENT AFFECTED		8. SYSTEM ICCE			
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED			
DLC:		RSC:		AOS:					
DSC:		KSG:		CCOS:					
DCU:		DCS:		TCOM EXEC:					
DRR:		TCOM:		CMS-2:					
11. TEST STEP				12. LINKING WITH					
13. ORIGINATOR (PRINT NAME) STEINBERG				14. ASSIGNED TO JUSTIS					
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD		YES		NO		NA			
16. SYSTEM STATUS									
17. TROUBLE DESCRIPTION Update ROCC Data menu can be invoked multiple times to change ROCC track data. Currently the menu contains several defaults. This causes operator inconvenience, as entry of the menu can override previous values. Fields held in common with the Initiate ROCC track menu should not be defaulted - probably, none of the fields should be, per other									
18. CORRECTIVE ACTION update menus						19. STR STATUS			
						STATUS		DATE	
						ASSIGNED 10-26		JS	
						REVIEWED			
						REVIEWED			
						REVIEWED			
						ESTIMATED COMPLETION		...	
TESTED									
CLOSED									
20. PATCHED VERSION		21. FIXED VERSION		22. ESTIMATED DATE					
23. SIGNATURE									

6-004 7/86

SYS IM TROUBLE REPORT

1. DATE 10-26-87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 3 4 (5)	4. STR NUMBER 87-865																
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) C-5 Program Listing Corrections																			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED	8. SYSTEM ICCE																
9. PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED DSC																
DLG: _____ KSC: _____ AOS: _____ DSC: 87.289 KSG: _____ CCOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DRR: _____ TCOM: _____ CHS-2: _____			11. TEST STEP																
			12. LINKING WITH																
13. ORIGINATOR (PRINT NAME) R THOMAS		14. ASSIGNED TO R THOMAS																	
15. PROBLEM DUPLICATED		16. SYSTEM STATUS																	
DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">YES</td> <td style="width:25%;">NO</td> <td style="width:25%;">NA</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		YES	NO	NA													
YES	NO	NA																	
17. DOUBLE DESCRIPTION Found C-5 listing error in the following modules CM. DRFS. SR, SD. MSGP2. SR, and FK. ATRK. SR																			
18. CORRECTIVE ACTION Modify the following modules: CM. DRFS. SR REV 2, 32. SD. MSGP2. SR REV 4, 04. FK. ATRK. SR REV 2, 14.		19. STR STATUS																	
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> <tr><td>ASSIGNED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>ESTIMATED COMPLETION</td><td> </td></tr> <tr><td>TESTED</td><td> </td></tr> <tr><td>CLOSED</td><td> </td></tr> </table>		STATUS	DATE	ASSIGNED		REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION		TESTED		CLOSED	
STATUS	DATE																		
ASSIGNED																			
REVIEWED																			
REVIEWED																			
REVIEWED																			
ESTIMATED COMPLETION																			
TESTED																			
CLOSED																			
20. PATCHED VERSION	21. FIXED VERSION	22. ESTIMATED DATE																	
23. SIGNATURE																			

ENG-004 7/86

004 7/A6

SYSTEM TROUBLE REPORT

1. DATE <i>26 Oct 87</i>	2. CATEGORY (CIRCLE ONE) <i>(5)</i> D E L	3. PRIORITY (CIRCLE ONE) 1 <i>(2)</i> 3 4 5	4. STR NUMBER <i>87-887</i>
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) <i>Tellzone is not operational</i>			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED <i>App C</i>	
8. SYSTEM <i>KCE</i>		9. FUNCTION AFFECTED <i>DSC/DLC</i>	
3. PROGRAM VERSIONS: (AS APPLICABLE)		11. TEST STEP	
DLC: <i>87.296</i> RSC: _____ AOS: _____		12. LINKING WITH <i>E-3</i>	
DSC: <i>87.295</i> RSC: _____ ECOS: _____			
DCU: _____ DCS: _____ TCOM EXEC: _____			
DRR: _____ TCOM: _____ RMS-2: _____			
3. ORIGINATOR (PRINT NAME) <i>R Fowler</i>		14. ASSIGNED TO <i>A. DURTSCHT</i>	
5. PROBLEM DUPLICATED		16. SYSTEM STATUS	
DURING RUN		YES	NO
AFTER RESTART		<i>X</i>	
AFTER RELOAD			
7. PROBLEM DESCRIPTION <i>The Tellzone established with CFIPC AREA 2 didn't work - tried add DSC ZONE 1.2 it did not. the zone was displayed but functions associated did work</i>			
8. CORRECTIVE ACTION		19. STR STATUS	
		STATUS	DATE
		ASSIGNED	
		REVIEWED	
		REVIEWED	
		REVIEWED	
		ESTIMATED COMPLETION	<i>...</i>
		TESTED	
		CLOSED	
20. FIXED VERSION	21. FIXED VERSION	22. ESTIMATED DATE	
SIGNATURE			

SYSTEM TROUBLE REPORT

DATE 26 Oct 87		2. CATEGORY (CIRCLE ONE) (8) D E L		3. PRIORITY (CIRCLE ONE) 1 (2) 3 4 5		4. STR NUMBER 87-888			
TITLE (BRIEFLY DESCRIBE THE PROBLEM) Lat-tell transmit exceeds capacity									
REFERENCE DOCUMENT				7. DOCUMENT AFFECTED App E E-3.2.3		8. SYSTEM KCE			
PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED JLC			
DLC: 87296		RSC: ADS:				11. TEST STEP			
DSC: RSG:		CCOS: TCOM EXEC:							
DCU: DES:		TCOM: RMS-2:				12. LINKING WITH E-3/RCC/Census Unit			
ORIGINATOR (PRINT NAME) R Fewler				14. ASSIGNED TO J. STEINBERG					
PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD		YES		NO		16. SYSTEM STATUS			
		<input checked="" type="checkbox"/>		<input type="checkbox"/>					
		<input type="checkbox"/>		<input type="checkbox"/>					
		<input type="checkbox"/>		<input type="checkbox"/>					
TROUBLE DESCRIPTION The Lat-tell retransmitt track capacity was exceeded, 100 % capacity alert was present, the max TRS CT alert was not present									
CORRECTIVE ACTION						19. STR STATUS			
						STATUS		DATE	
						ASSIGNED			
						REVIEWED			
						REVIEWED			
						REVIEWED			
						ESTIMATED COMPLETION		
TESTED									
CLOSED									
ATTACHED VERSION		21. FIXED VERSION		22. ESTIMATED DATE					
SIGNATURE									

SYSTEM TROUBLE REPORT

DATE <u>26 Oct 87</u>		2. CATEGORY (CIRCLE ONE) <u>(S) D E L</u>		3. PRIORITY (CIRCLE ONE) <u>1 (2) (3) 4 5</u>		4. STR NUMBER <u>87-889</u>	
TITLE (BRIEFLY DESCRIBE THE PROBLEM) <u>10 A message transmitt in error</u>							
REFERENCE DOCUMENT				7. DOCUMENT AFFECTED <u>App C</u>		8. SYSTEM <u>ICCE</u>	
PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED <u>DLC</u>	
DLC: <u>87.296</u>		KSC: <u> </u>		AOS: <u> </u>		11. TEST STEP <u>EVENT 7</u>	
DSC: <u> </u>		KSG: <u> </u>		ECOS: <u> </u>		12. LINKING WITH <u>E-3 / ACC / CENUS #1</u>	
DCU: <u> </u>		DCS: <u> </u>		TCOM EXEC: <u> </u>			
DRR: <u> </u>		TCOM: <u> </u>		CMS-2: <u> </u>			
ORIGINATOR (PRINT NAME) <u>R. F. R. R.</u>				14. ASSIGNED TO <u>A. DURTSCHI</u>			
PROBLEM DUPLICATED			YES	NO	NA	16. SYSTEM STATUS	
DURING RUN			<u>X</u>				
AFTER RESTART							
AFTER RELOAD							
17. LE DESCRIPTION <u>10 A message from ICCE transmitt in error to E-3.</u>							
CORRECTIVE ACTION						19. STR STATUS	
						STATUS	DATE
						ASSIGNED	
						REVIEWED	
						REVIEWED	
						REVIEWED	
						ESTIMATED COMPLETION	<u> </u>
21. FIXED VERSION						TESTED	
22. ESTIMATED DATE						CLOSED	
SIGNATURE							

-DD4 7/86

SYSTEM TROUBLE REPORT

1. DATE 26 Oct 87		2. CATEGORY (CIRCLE ONE) 8 9 0 1 2 3 4 5		3. PRIORITY (CIRCLE ONE) 1 2 3 4 5		4. STR NUMBER 87-890	
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) Wilco / CANTCO Response Actions in Error							
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED APP C		8. SYSTEM ICCE	
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED DLC	
DLC: 87.296		RSC:		ADS:		11. TEST STEP ST	
BSC:		RSG:		CCOS:		12. LINKING WITH E-3 / RSC /	
BCU:		BES:		TCOM EXEC:			
BRB:		TCOM:		EHS-2:			
13. ORIGINATOR (PRINT NAME) R Fowler				14. ASSIGNED TO A. DURTSCHT			
15. PROBLEM DUPLICATED		YES		NO		16. SYSTEM STATUS	
DURING RUN		<input checked="" type="checkbox"/>		<input type="checkbox"/>			
AFTER RESTART		<input type="checkbox"/>		<input type="checkbox"/>			
AFTER RELOAD		<input type="checkbox"/>		<input type="checkbox"/>			
17. PROBLEM DESCRIPTION The Wilco / CANTCO Response is processed in error - appears to be reverse of the actual intentions							
18. CORRECTIVE ACTION						19. STR STATUS	
						STATUS	
						DATE	
						ASSIGNED	
						REVIEWED	
						REVIEWED	
						REVIEWED	
						ESTIMATED COMPLETION	
20. PATCHED VERSION						21. FIXED VERSION	
22. ESTIMATED DATE						TESTED	
SIGNATURE						CLOSED	

SYSTEM TROUBLE REPORT

1. DATE <i>26 Oct</i>	2. CATEGORY (CIRCLE ONE) <i>(S) D E L</i>	3. PRIORITY (CIRCLE ONE) <i>1 (2) 3 4 5</i>	4. STR NUMBER <i>87-891</i>
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) <i>11B transmitt in ERROR</i>			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED <i>APPC</i>	8. SYSTEM <i>KCF</i>
9. PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED <i>DLC</i>
DLC: <i>87.296</i> KSC: ADS: _____			11. TEST STEP
DSC: KSG: CCOS: _____			
DCU: DES: TCOM EXEC: _____			
DDR: TCOM: CMS-2: _____			
12. LINKING WITH <i>E-3 / RCC / COMUS #1</i>			14. ASSIGNED TO <i>A: DURTSCHI</i>
1. ORIGINATOR (PRINT NAME) <i>R Fowler</i>			
15. PROBLEM DUPLICATED		16. SYSTEM STATUS	
DURING RUN		YES	NO
AFTER RESTART		X	
AFTER RELOAD			
17. DLE DESCRIPTION			
<i>The 11B message was transmitted after the track had been dropped from the Det.</i>			
18. CORRECTIVE ACTION			19. STR STATUS
			STATUS
			DATE
			ASSIGNED
			REVIEWED
			REVIEWED
			REVIEWED
			ESTIMATED COMPLETION
			TESTED
			CLOSED
20. PD	21. FIXED VERSION	22. ESTIMATED DATE	
NATURE			

SYSTEM TROUBLE REPORT

DATE <i>26 Oct</i>	2. CATEGORY (CIRCLE ONE) <i>(5) D E L</i>	3. PRIORITY (CIRCLE ONE) <i>1 (2) (3) 4 5</i>	4. STR NUMBER <i>87-892</i>												
TITLE (BRIEFLY DESCRIBE THE PROBLEM) <i>AK Type field in error in off-line DX</i>															
REFERENCE DOCUMENT		7. DOCUMENT AFFECTED <i>App C</i>	8. SYSTEM <i>ICCE</i>												
PROGRAM VERSIONS: (AS APPLICABLE)			9. FUNCTION AFFECTED <i>TRR 100</i>												
DLE: _____ RSE: _____ ADS: _____ DSC: _____ MSG: _____ CCDS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DRR: <i>87 297</i> TCOM: _____ CMS-2: _____			10. TEST STEP												
11. LINKING WITH <i>E-3 / ROCC / COMMS #1</i>															
12. INATOR (PRINT NAME) <i>R Fowler</i>		14. ASSIGNED TO <i>W. CRAWFORD</i>													
PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">YES</td> <td style="padding: 2px;">NO</td> <td style="padding: 2px;">NA</td> </tr> <tr> <td style="text-align: center; padding: 2px;"><i>X</i></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </table>		YES	NO	NA	<i>X</i>								
YES	NO	NA													
<i>X</i>															
16. SYSTEM STATUS															
TROUBLE DESCRIPTION <i>The AK Type in the Lat tell off-line when 2/c type has been entered either operate or retransmitt - show F101 instead F15</i>															
CORRECTIVE ACTION		19. STR STATUS													
		STATUS	DATE												
		ASSIGNED													
		REVIEWED													
		REVIEWED													
		REVIEWED													
		ESTIMATED COMPLETION												
17. FIXED VERSION	21. FIXED VERSION	22. ESTIMATED DATE													
SIGNATURE		TESTED													
		CLOSED													

SYSTEM TROUBLE REPORT

1. DATE 10/26/87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 (2) 3 4 5	4. STR NUMBER 87-293
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) ID Filter for TADIL tracks filters all			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED SGT App E	8. SYSTEM KCE
9. PROGRAM VERSIONS: (AS APPLICABLE)			10. FUNCTION AFFECTED DSC / DLC
DLC: 87.296 RSC: ADS:			11. TEST STEP
DSC: 87.295 RSG: ECOS:			
DCU: DES: TCOM EXEC:			
DRR: TCOM: CMS-2:			
13. ORIGINATOR (PRINT NAME) R. F. H.		14. ASSIGNED TO	
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD	YES	NO	NA
	X		
16. SYSTEM STATUS			
17. DOUBLE DESCRIPTION ID Filter setup for filtering all surface tracks, when filter is Active - Air ID's are filtered too. ID Filter setup for filtering AIR tracks, when filter is Active - surface ID's are filtered too			
18. CORRECTIVE ACTION		19. STR STATUS	
		STATUS	DATE
		ASSIGNED	
		REVIEWED	
		REVIEWED	
		REVIEWED	
		ESTIMATED COMPLETION	...
		TESTED	
20. SIGNED VERSION		21. FIXED VERSION	22. ESTIMATED DATE
SIGNATURE			
		CLOSED	

SYSTEM TROUBLE REPORT

DATE 8/10/87		2. CATEGORY (CIRCLE ONE) (8) D E L		3. PRIORITY (CIRCLE ONE) 1 (2) 3 4 5		4. STR NUMBER 87-894			
TITLE (BRIEFLY DESCRIBE THE PROBLEM) CANTPRO NOT transmitted									
REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM ICCE			
PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED DLC / Forwarding			
DLC: 87.300		RSC:		ADS:		11. TEST STEP			
DSC: 87.300		KSC:		CCOS:					
RCU:		DCS:		TEAM EXEC:					
ERR:		TEAM:		RMS-2:		12. LINKING WITH ROCC / ICCE / PDFA			
ORIGINATOR (PRINT NAME) R Fowler				14. ASSIGNED TO					
PROBLEM DUPLICATED		YES		NO		16. SYSTEM STATUS			
		X							
DURING RUN									
AFTER RESTART									
AFTER RELOAD									
TROUBLE DESCRIPTION After ROCC link is up - operator KCE terminates link - The E-3 sim (PDFA) attempts H/O which ICCE should CANTPRO - did not receive CANTPRO									
CORRECTIVE ACTION						19. STR STATUS			
						STATUS		DATE	
						ASSIGNED			
						REVIEWED			
						REVIEWED			
						REVIEWED			
						ESTIMATED COMPLETION		
						TESTED			
CLOSED									
PATCHED VERSION		21. FIXED VERSION		22. ESTIMATED DATE					
23. SIGNATURE									

SYSTEM TROUBLE REPORT

1. DATE <u>10/28/87</u>	2. CATEGORY (CIRCLE ONE) <u>(S)</u> D E L	3. PRIORITY (CIRCLE ONE) <u>(1)</u> 2 3 4 5	4. STR NUMBER <u>87-275</u>												
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) <u>DLC CRASHES AT 2400 HOURS</u>															
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED													
8. SYSTEM <u>ICCE</u>		9. FUNCTION AFFECTED													
10. TEST STEP		11. LINKING WITH													
12. PROGRAM VERSIONS: (AS APPLICABLE) <table style="width:100%; border: none;"> <tr> <td style="border: none;">DLC:</td> <td style="border: none;">RSC:</td> <td style="border: none;">ADS:</td> </tr> <tr> <td style="border: none;">DSC:</td> <td style="border: none;">RSG:</td> <td style="border: none;">ECOS:</td> </tr> <tr> <td style="border: none;">DCU:</td> <td style="border: none;">DCS:</td> <td style="border: none;">TCOM EXEC:</td> </tr> <tr> <td style="border: none;">DBR:</td> <td style="border: none;">TCOM:</td> <td style="border: none;">CMS-2:</td> </tr> </table>				DLC:	RSC:	ADS:	DSC:	RSG:	ECOS:	DCU:	DCS:	TCOM EXEC:	DBR:	TCOM:	CMS-2:
DLC:	RSC:	ADS:													
DSC:	RSG:	ECOS:													
DCU:	DCS:	TCOM EXEC:													
DBR:	TCOM:	CMS-2:													
13. ORIGINATOR (PRINT NAME) <u>A. DURTSCHI</u>		14. ASSIGNED TO <u>A. DURTSCHI</u>													
15. PROBLEM DUPLICATED DURING RUN AFTER RESTART AFTER RELOAD		16. SYSTEM STATUS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">YES</td> <td style="width:10%;">NO</td> <td style="width:10%;">NA</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		YES	NO	NA									
YES	NO	NA													
17. () BLE DESCRIPTION <u>When system time goes from 2400 to 0000</u> <u>the DLC crashes</u>															
18. CORRECTIVE ACTION		19. STR STATUS													
_____ _____ _____ _____ _____ _____		STATUS													
		DATE													
		ASSIGNED													
		REVIEWED													
		REVIEWED													
		REVIEWED													
ESTIMATED COMPLETION														
TESTED															
CLOSED															
20. PATCHED VERSION		21. FIXED VERSION													
22. ESTIMATED DATE															
23. SIGNATURE															

SYS. M TROUBLE REPORT

1. DATE 10-28-87		2. CATEGORY (CIRCLE ONE) (S) D E L		3. PRIORITY (CIRCLE ONE) 1 2 3 (4) 5		4. STR NUMBER 87-896	
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) Notify of Xfer Alert Not Being Output							
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM TCCE	
9. PROGRAM VERSIONS: (AS APPLICABLE) DLG: 87.300 RSC: ASD: DSC: KSG: CCOS: DCU: DCS: TCOM EXEC: DRR: TCOM: CMS-2:						10. FUNCTION AFFECTED DLC	
						11. TEST STEP	
						12. LINKING WITH	
13. ORIGINATOR (PRINT NAME) STEINBERG				14. ASSIGNED TO STEINBERG			
15. PROBLEM DUPLICATED			YES	NO	NA	16. SYSTEM STATUS	
DURING RUN							
AFTER RESTART							
AFTER RELOAD							
17. TROUBLE DESCRIPTION Notify of xfer track alert should be output upon receipt of Notify of xfer msg - it currently is not.							
18. CORRECTIVE ACTION Update VRTC (ver 2.21) to output Not. xfer th. alert. J.S. 10/28/87							
19. STR STATUS							
STATUS				DATE			
ASSIGNED							
REVIEWED							
REVIEWED							
REVIEWED							
ESTIMATED COMPLETION							
TESTED							
CLOSED							
20. PATCHED VERSION		21. FIXED VERSION		22. ESTIMATED DATE			
23. SIGNATURE							

SYSTEM TROUBLE REPORT.

1. DATE 10-29-87	2. CATEGORY (CIRCLE ONE) (S) D E L	3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5	4. STR NUMBER 87-897																
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) ROCC to E3A H/O Initiation Msg Sequence Incomplete																			
6. REFERENCE DOCUMENT		7. DOCUMENT AFFECTED																	
9. PROGRAM VERSIONS: (AS APPLICABLE)		8. SYSTEM TCCE																	
DLCE7.301 KSC: _____ AOS: _____ DSC: _____ KSG: _____ CCOS: _____ DCU: _____ DCS: _____ TCOM EXEC: _____ DBR: _____ TCOM: _____ CMS-2: _____		10. FUNCTION AFFECTED DLCE																	
11. TEST STEP		12. LINKING WITH																	
13. ORIGINATOR (PRINT NAME) Steinberg		14. ASSIGNED TO Duttsch																	
15. PROBLEM DUPLICATED		16. SYSTEM STATUS																	
DURING RUN AFTER RESTART AFTER RELOAD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">YES</td> <td style="width:33%;">NO</td> <td style="width:33%;">NA</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		YES	NO	NA													
YES	NO	NA																	
17. TROUBLE DESCRIPTION In the ROCC to E3A H/O Initiation Msg Sequence, a new track sequence is to occur & is not																			
18. CORRECTIVE ACTION		19. STR STATUS																	
_____ _____ _____ _____ _____ _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">STATUS</th> <th style="width:50%;">DATE</th> </tr> <tr><td>ASSIGNED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>REVIEWED</td><td> </td></tr> <tr><td>ESTIMATED COMPLETION</td><td> </td></tr> <tr><td>TESTED</td><td> </td></tr> <tr><td>CLOSED</td><td> </td></tr> </table>		STATUS	DATE	ASSIGNED		REVIEWED		REVIEWED		REVIEWED		ESTIMATED COMPLETION		TESTED		CLOSED	
		STATUS	DATE																
		ASSIGNED																	
		REVIEWED																	
		REVIEWED																	
		REVIEWED																	
ESTIMATED COMPLETION																			
TESTED																			
CLOSED																			
20. PATCHED VERSION		21. FIXED VERSION																	
22. ESTIMATED DATE																			
SIGNATURE																			

SYSTEM TROUBLE REPORT.

1. DATE 10-29-87		2. CATEGORY (CIRCLE ONE) (S) D E L		3. PRIORITY (CIRCLE ONE) 1 2 (3) 4 5		4. STR NUMBER 87-898	
5. TITLE (BRIEFLY DESCRIBE THE PROBLEM) Int. Tracks Go Stale When only Int-Add-on Msg. Received							
6. REFERENCE DOCUMENT				7. DOCUMENT AFFECTED		8. SYSTEM ICCE	
9. PROGRAM VERSIONS: (AS APPLICABLE)						10. FUNCTION AFFECTED DLC	
DLC: 87.301		KSC: _____		ADS: _____		11. TEST STEP	
DSC: _____		KSG: _____		CCOS: _____		12. LINKING WITH	
DCU: _____		DCS: _____		TCOM EXEC: _____			
DRR: _____		TCOM: _____		CMS-2: _____			
13. ORIGINATOR (PRINT NAME) Steinberg				14. ASSIGNED TO A. Dutschki			
15. PROBLEM DUPLICATED			YES	NO	NA	16. SYSTEM STATUS	
DURING RUN							
AFTER RESTART							
AFTER RELOAD							
17. TROUBLE DESCRIPTION Intercepter tracks initiated then basic track msg. Time of last update reset only with receipt of basic track msg, so that if only Int-Add-on msgs received, tracks will go stale							
18. CORRECTIVE ACTION Reset time of last update upon receipt of Int-Add-on msg.						19. STR STATUS	
						STATUS	DATE
						ASSIGNED	
						REVIEWED	
						REVIEWED	
						REVIEWED	
						ESTIMATED COMPLETION	...
20. PATCHED VERSION						21. FIXED VERSION	
22. ESTIMATED DATE						TESTED	
23. SIGNATURE						CLOSED	



26 April 1988

125-S001-0649

Whittaker Command & Control Systems
6190 Yarrow Drive
Carlsbad, CA 92009

Attn: Ms. Marie Raymond
Manager of Contracts

Subj: Subcontract 125-001; Iceland Command and Control Enhancement (ICCE), Software Qualification Test (SQT) Report, dated 5 February 1988 (CDRL No. 332-02C, 532-04C)

Ref: Letter, HQ ESD (Gettelman) to TechDyn (Hise), dated 20 April 1988, NADS-479

Dear Ms. Raymond:

TechDyn Systems has reviewed and is forwarding the referenced letter in regard to the subject ICCE SQT Report to Whittaker Command and Control Systems for action and compliance with paragraph 3 contained therein.

Performance in accordance with the instructions provided herein is considered by TechDyn to be within the scope of the existing subcontract requirements. In the event that WCCS does not agree that these instructions are within the present requirements, WCCS must notify TechDyn, in writing, within ten (10) calendar days from receipt of this letter.

If you have any questions regarding the above, please contact the undersigned at (703) 922-5100.

Very truly yours,

A handwritten signature in black ink, appearing to read "Max S. Rosen", written over a horizontal line.

Max S. Rosen
Senior Contract Administrator

Enclosure: As stated

MSR/dlw



2880

APR 26 '88 '53 MITRE CO&P BEDFORD M.

PAGE.05



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS ELECTRONIC SYSTEMS DIVISION (AFSC)
HANSCOM AIR FORCE BASE, MASSACHUSETTS 01731-6000

20 APR 1988

REPLY TO: PKS-5/(SYB/Lt Dalrymple)/NADS-479
ATTN OF:

SUBJECT: Contract F19628-85-C-0079, Iceland Command and Control Enhancement, Software Qualification Test (SQT) Report, dated 5 February 1988 (CDRL No. 332-02C, 532-04C)

TO:


TechDyn Systems Corporation
Attn: Mr William C. Hise
6564 Loisdale Court
Suite 600
Springfield, VA 22150

1. The Government has reviewed the subject ICCE/CENTAF SQT Report for the Processing and Display Functional Area (PDFA), including the ICCE SQT Report Supplement dated 1 March 1988. The government does not accept this document.

2. Overall, the test report does not thoroughly document all occurrences of the SQT sessions. A number of occurrences have not been included and several which have been included are in disagreement with our records. The SQT Report Supplement contains a partial listing of the status of a number of System Trouble Reports (STRs) but provides no evidence of closure, descriptions or analysis of STRs generated since the end of formal SQT (17 Dec 87). The supplement also provides no analysis of data recording and reduction from the SQT. The attachment provides details of the review with specific problems noted.

3. The contractor is required to revise and resubmit the subject report within 3 weeks of receipt of this letter. The revised report shall accurately reflect the SQT sessions and incorporate the attached comments.

4. Performance in accordance with the instructions provided herein is considered to be within the present requirements of the subject contract. In the event the Contractor does not agree that these instructions are within the present requirements, he must notify the Contracting Officer, in writing, within fifteen (15) calendar days from the date of receipt of this letter.


ANNE E. GETTELMAN, Capt, USAF
Contracting Officer
Directorate of Strategic
Systems Contracts
Deputy for Contracting

1 Atch

cc: SYB-4
DMO

2881

Attachment

SQT REPORT REVIEW
CDRL ITEM 332 - R/001726/00C

General Comments

1. There are a number of discrepancies in what the SQT Report says and what the government observers for ICCE SQT noted. Specific instances of this are provided below in the detailed comments.
2. The summarization of event occurrences is incomplete. The SQT Report has overlooked documentation of major occurrences that should be formally documented for historical and accuracy reasons.
3. The system trouble reports (STRs) generated, relative to each test event, should be summarized within the SQT Test Event Report in section 6, paragraph 6.2. This has been done in several cases, but not consistently.
4. It is necessary for the contractor to provide the government with evidence of the verification of steps that were not verified during formal SQT sessions. Specific notation of these steps has been included in the detailed comments below. Additionally, the contractor should provide the closure information on STRs that remained outstanding at the time to submission of this report. Included are:

<u>STR Number</u>	<u>Description</u>
87-966	Two tracks allocated the same ROCC TN.
87-974	Map Gen inoperable if lat/long is greater than 60 degrees
87-975	B5 does not distinguish between sim/live
87-978	Delayed Voice Alert
87-981	Console correlation not implemented correctly
87-986	One cycle delay in transmit of MR
87-994	The tell control message transmitted the incorrect number of times

5. There are a number of areas of inconsistency in reporting redlines to the SQT test procedures. In some events all changes made to the procedure since the start of formal SQT have been noted. For other events only the most recent changes have been documented. For consistency, all redlines since SQT start should be noted in the report.

6. During formal SQT, there were steps that could not be verified in a number of events. This was the primary reason for regression testing. In some cases the SQT report documents these instances and that these steps were later verified following software revision. However, this is not consistently the case. A more thorough documentation of SQT and relative regressions should be provided.
7. Printouts for each day of testing have been sporadically provided. A number of printouts have been included but not all. In addition, the printouts included have not been presented chronologically. All printouts for all test days should be included in the SQT report for completeness.
8. Several ICCE directory listings have been included in Attachment 6 which is supposed to contain the scripts used to run SQT events. The contractor should state why these listings have been included within this particular section of the test report.
9. A number of new STRs were generated following the end of SQT sessions. The contractor states that a supplement to the test report will be provided upon completion of data analysis and disposition of the current and newly generated STRs from the analysis. It is recommended that the contractor provide the STR forms for review of the newly generated STRs, including the following:

<u>STR Number</u>	<u>Description</u>
88-006	Control Unit to TADIL-B in error
88-007	Voice Frequency from ROCC to TADIL-A in error
88-008	Control Unit in engagement, retransmit to TADIL-B in error
10. The Verification Cross Reference Matrix (VCRM) presented in Section 5 is inconsistent with that contained in the ICCE Master Test Plan (MTP). The VCRM provided in the SQT Report should accurately reflect the overall MTP VCRM for the PDFA.

Detailed Comments

<u>Page</u>	<u>Paragraph</u>	<u>Section</u>	<u>Comment</u>
4-3	4.2.2.5	c.	The reference to Event 3 of Appendix E is incorrect. It should read "Iceland Link Initialization."

<u>Page</u>	<u>Paragraph</u>	<u>Section</u>	<u>Comment</u>
4-4	4.2.2.5	Between p. and q.	Two events, that were deleted from the original procedure in Appendix E should be noted for consistency with the rest of the SQT report. The events include, Event 5.2.4, Filter Subsurface IDs (which was deleted) and 5.2.5, Filter ECH/ESH (also deleted).
4-4	4.2.2.5	5.3	The attachment to this event should be noted (Attachment 1 to Event 5.3 in Appendix E).
6-2	6.2 Attachment 4, 5	2	Attachment 4 is included in the SQT Report (Attachment 1). Redlines noted are acceptable except redlines to step 4 and 16 should explicitly state the "Loadtest is to have no dummy addresses". Attachments 4 and 5, included in the SQT Report (Attachment 1) have not been verified by SQT participants. The checksheets signed by SQT participants should be provided, if they exist.
6-3	6.2 Appendix A Event 3	2	Specific dates should be provided as opposed to "Days 1 and 2."
6-3	6.2 Appendix A Event 5	1	Redlines have been indicated for steps 2 and 7. It is not clear what the redlines are, since specific redlines have not been included in the test procedure in attachment 1 or 2 of the SQT report. Additionally, changes were agreed upon to redline step 3 of Event 5. These changes have not been noted in the SQT Report.
6-3	6.2 Appendix A Event 7	1	A redline is indicated for step 9. The only change reported is the positional variance which has been cited in section 2 of this same paragraph. The contractor should identify and justify changes beyond the positional variance that have been made. Additionally, step 8 of event 7, Appendix A has been redlined to reflect a positional variance. The contractor should clarify whether steps 5 and 6 are also being changed to reflect the positional variance.

<u>Page</u>	<u>Paragraph</u>	<u>Section</u>	<u>Comment</u>
6-3	6.2 Appendix A Event 8	1	A redline has been agreed to for set 2g that has not been included in the SQT report.
6-4	6.2 Appendix A Event 8	4	The sentence "Request to have all special func- keys added to test procedure that was tested in CPT&E not approved by PM." is not clear. Explain and/or reword.
6-4	6.2 Appendix A Event 9	1	Step 3c, indicated as redlined in the SQT pro- cedure during test run, does not exist.
6-5	6.2 Appendix A Event 14	2	The contractor should clarify what is needed to correct the problem of negative altitudes for ROCC tracks being reported out on the TADIL link and if it was performed during SQT.
		3	The contractor should provide a specific refer- ence to justify the statement that the air- craft speeds were not exact.
6-5	6.2 Appendix B Event 1		Attachment 1 provides the SQT procedure with no explanation of results. Some statement as to the success or failure of event 1 is required here.
6-6	6.2 Appendix B Event 5		Page 27 of the test log indicates that step 34 has been redlined. This is not reflected in the SQT Report.
6-6	6.2 Appendix B Event 6	3,4, 5	The contractor should provide evidence that steps 2, 6, 8, 13, and 18 have been verified in the DX.
			Page 28 of the test log indicates that step 21 has been redlined. This is not reflected in the SQT Report.
6-7	6.2 Appendix B Event 7	2	The contractor should provide further explana- tion as to government concern and exactly what the suggested ECP would involve for clearing nodes.

<u>Page</u>	<u>Paragraph</u>	<u>Section</u>	<u>Comment</u>
6-7	6.2 Appendix B Event 8	1	<p>A redline to step 2 has been indicated in the SQT report. A change was not previously noted in government notes or copies of the SQT procedure. The contractor must justify the change, as the one penciled into Attachment 1 does not affect the meaning of the statement.</p> <p>A redline has been listed for step 11b. This step is non-existent in the SQT procedure.</p> <p>The test log, page 30, shows a redline has been made to step 12 of Appendix B, event 8. A change has not been noted here.</p>
6-8	6.2 Appendix B Event 9		<p>It is not possible to review the accuracy of the SQT Report for this event as the contractor has not provided the government with the classified test procedure that was used during the testing. The contractor must provide this documentation as originally agreed.</p>
6-8	6.2 Appendix B Event 10		<p>State whether step 4 was verified by SQT participants. Government notes indicate this step was never verified.</p>
6-9	6.2 Appendix B Event 11a	2	<p>The intent of statement #2 is unclear. Revord.</p> <p>Government notes for step 19 of Event 11a shows that logic errors were present and this step was never verified. This contradicts the results presented in the SQT Report; reconcile this inconsistency.</p>
6-10	6.2 Appendix C Event 3	1	<p>A redline is indicated for 3b. No changes are shown in either version of the SQT procedure presented in attachments 1 and 2 of the SQT Report. Correct this.</p> <p>A change was made to step 3c that has not been reported in the SQT results.</p>
6-11	6.2 Appendix C Event 4	3	<p>Clarify what is meant by the "CNDL either live or sim." in this statement.</p>

<u>Page</u>	<u>Paragraph</u>	<u>Section</u>	<u>Comment</u>
6-11	6.2 Appendix C Event 5	1	The contractor has indicated a redline change to step 10 of this event. No changes have been noted by the government or in Attachments 1 and 2 to the SQT Report. The contractor should correct this.
6-12	6.2 Appendix C Event 5	2	Clarify what is meant by "select cli and disconnect cli," with reference to creating the tellzone.
6-12	6.2 Appendix C Event 6		Specify what changes were requested by ESD. The change was to repeat the event and perform the reverse of the handover with no degradation in track quality. This should explicitly be presented in the SQT Report as it changed the entire objective of the original event.
6-13	6.2 Appendix C Event 7	3	Clarify what is meant by "CT." Is this in reference to a cease-tell?
6-13	6.2 Appendix C Event 8	1	<p>Redline steps have been indicated, but not specified. Recommend contractor specify changes that have been made to steps 3a, 3b, 4, 5, 7a, 11, 12, 14, 15, 16, 16a, 19, 20.</p> <p>The write up for this event is very incomplete. A number of occurrences that resulted in event re-runs and verification have not been included. A number of steps were not verified during the test sessions and it was noted that they should be checked in the data reduction. These occurrences have not been reported. In addition, the handover problem, in which no handover occurred, even following track quality degradation down to 0, has not been documented anywhere in the SQT report.</p> <p>The contractor should provide an explanation as to why steps 18 and 19 were not verified in the initial SQT runs, and how the event was eventually signed off.</p>

<u>Page</u>	<u>Paragraph</u>	<u>Section</u>	<u>Comment</u>
6-13	6.2 Appendix C Event 9	1	A redline has been indicated for step 17. The contractor should specify what the change is, as the redline does not agree with government notes taken during the SQT sessions.
		3	The contractor should provide the system trouble report information that resulted from this occurrence. Include a discussion of the problem in which a voice frequency input by the ROCC was not received by either the RADIL or E-3 participants.
6-15	6.2 Appendix D Event 3		An STR was generated relative to step 20 for TADIL-B. This should be noted. The communications problems experienced on 11/17/87 with Langley (both voice and data links) should be documented.
6-15	6.2 Appendix E Event 3	2	TADIL-B was not shown in test procedures in attachments 1 or 2. Clarify what is meant by "removed TADIL-B step 8."
6-15	6.2 Appendix E Event 4	1	Changes were made to step 8 that have not been noted in this report.
		1	Changes are indicated for step 12. However, no changes are shown in attachments 1 or 2 or in government maintained notes.
6-17	6.2 Appendix E Event 4.1.3	1	It should be noted that an STR was generated, and it was recommended that data reduction be checked for the tracks that disappeared.
6-18	6.2 Appendix E Event 5.2.2	1	It should be noted that a redline has been made to step 19.
6-18	6.2 Appendix E Event 5.3		The verification of attachment 1 to this event must be addressed.

<u>Page</u>	<u>Paragraph</u>	<u>Section</u>	<u>Comment</u>
6-19	6.2 Appendix E Event 7	1	Note should be taken that the entire event was submitted by the contractor during testing performed during 9-20 November 1987. The redlines noted were made subsequent to that.
6-19	6.2 Appendix E Event 8	3	It is stated that "capacity was held for completion of <u>most</u> of next event." Does this indicate that the Data Link Computer went down, as it had previously done and therefore the event failed?
6-20, 6-21	6.3.1		<p>Communications problems are incompletely addressed. The statement is made that "The SQT dry-runs provided the needed time to work out communication problems." Judging from the report to follow, this does not appear to have been the case, and this statement is not true.</p> <p>A statement is made that "Additional actions at VCCS included reload of SRV 87-292 that was used during dry-runs to verify if it was a RADIL software release problem."</p> <p>The conclusion from this test has not been presented. Was it a RADIL software release problem?</p>