

Handwritten signature

 HEC2 R
 ERROR
 MODIFI

C
 T1
 T2
 T3

J1 ICHE
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J2 NPR0
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J3 VARI
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 14
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NC
 QT

X1
 GR 9
 GR 2
 GR 5

X1

X1

X1
 NC
 QT

THE GUT

RECEIVED
 MAR 2 1979
 DAMES AND MOORE

6
 2
 6

X1	100.000	14.000	965.000	1050.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	52.600	725.000	52.600	825.000	52.900	875.000	52.200	939.000	50.700	965.000
GR	43.100	975.000	27.400	995.000	26.900	1000.000	27.700	1005.000	38.500	1025.000
GR	53.500	1050.000	52.600	1075.000	53.300	1225.000	55.100	1275.000	50.000	1300.000
X1	101.000	0.000	0.000	0.000	1.000	1.000	1.000	0.000	0.000	0.000

6 Dec 76
[Signature]

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

RECEIVED

MAR 2 1979

DAMES AND MOORE

C THE GUT WELDON-HALIFAX CO INC
 T1 FPM-FIS OCT78GWP
 T2 10 YEAR
 T3 THE GUT WELDON & HALIFAX CO.

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	G	WSEL	FB
	0.	7.	0.	0.	0.000200	0.00	0.0	0.	18.000	0.000
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	1.000	3.000	42.000	41.000	10.000	0.000	38.000	1.000	13.000
	14.000	15.000	55.000	26.000	56.000	0.000	38.000	1.000	53.000	21.000
	22.000	54.000	4.000	0.000	150.000	201.000	0.000	0.000	0.000	0.000
NC	0.140	0.100	0.040	0.200	0.400	0.000	0.000	0.000	0.000	0.000
QT	9.000	2940.000	2940.000	2940.000	2940.000	2940.000	0.000	2380.000	2740.000	2940.000
X1	1.000	13.000	3920.000	4400.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	90.000	1100.000	52.000	1280.000	53.000	1950.000	55.000	3100.000	54.000	3920.000
GR	22.000	4000.000	15.000	4150.000	14.000	4220.000	15.000	4300.000	55.000	4400.000
GR	55.000	4600.000	60.000	4900.000	90.000	5100.000	0.000	0.000	0.000	0.000
X1	2.000	0.000	0.000	0.000	1.000	1.000	1.000	0.000	0.000	0.000
X1	3.000	0.000	0.000	0.000	5.000	5.000	5.000	0.000	0.000	0.000
X1	4.000	0.000	0.000	0.000	10.000	10.000	10.000	0.000	0.000	0.000
NC	0.120	0.120	0.040	0.200	0.400	0.000	0.000	0.000	0.000	0.000
QT	9.000	1040.000	1040.000	1040.000	1040.000	1040.000	0.000	480.000	840.000	1040.000
X1	100.000	14.000	965.000	1050.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	52.600	725.000	52.600	825.000	52.900	875.000	52.200	939.000	50.700	965.000
GR	43.100	975.000	27.400	995.000	26.900	1000.000	27.700	1005.000	38.500	1025.000
GR	53.500	1050.000	52.600	1075.000	53.300	1225.000	55.100	1275.000	0.000	0.000
X1	101.000	0.000	0.000	0.000	1.000	1.000	1.000	0.000	0.000	0.000

10/10
2/2/79

XXXXXXXXX SECTION HG-1

X1	200.000	14.000	965.000	1050.000	90.000	90.000	90.000	0.000	0.000	0.000
GR	52.600	725.000	52.600	825.000	52.900	875.000	52.200	939.000	50.700	1465.000
GR	43.100	975.000	27.400	995.000	26.900	1000.000	27.700	1005.000	38.500	1025.000
GR	53.500	1050.000	52.600	1075.000	53.300	1225.000	55.100	1275.000	0.000	0.000

X1	240.000	14.000	965.000	1050.000	40.000	40.000	40.000	0.000	0.000	0.000
GR	52.600	725.000	52.600	825.000	52.900	875.000	52.200	939.000	50.700	1465.000
GR	43.100	975.000	29.400	995.000	28.900	1000.000	29.700	1000.000	38.500	1025.000
GR	53.500	1050.000	52.600	1075.000	53.300	1225.000	55.100	1275.000	0.000	0.000
NC	0.100	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

XXXXXXXXX SECTION HG-2 ** SR1650

X1	290.000	21.000	960.000	1040.000	50.000	50.000	50.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	52.600	52.600	0.000
GR	52.600	725.000	53.000	875.000	52.500	925.000	50.700	960.000	50.300	1460.000
GR	44.000	980.000	34.000	990.000	31.200	1000.000	31.600	1004.000	32.300	1005.000
GR	35.100	1015.000	38.500	1025.000	42.900	1030.000	47.300	1035.000	49.800	1040.000
GR	53.200	1050.000	52.500	1110.000	53.000	1225.000	54.700	1275.000	56.100	1325.000
GR	56.800	1410.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	1.250	1.460	2.500	0.000	14.000	4.000	917.000	1.570	31.200	31.200

X1	310.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	52.200	53.200	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	53.200	53.300	0.000
BT	11.000	725.000	52.600	0.000	875.000	53.200	0.000	925.000	53.500	0.000
BT	960.000	53.500	52.200	1050.000	53.600	52.200	1125.000	53.300	0.000	1175.000
BT	53.500	0.000	1225.000	53.800	0.000	1275.000	54.700	0.000	1325.000	56.100
BT	0.000	1410.000	56.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.120	0.120	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	360.000	16.000	953.000	1038.000	50.000	50.000	50.000	0.000	-0.900	0.000
GR	53.500	653.000	53.400	703.000	52.100	753.000	50.400	803.000	50.100	853.000
GR	50.100	903.000	51.200	953.000	36.100	975.000	32.600	1000.000	36.200	1013.000
GR	51.200	1038.000	52.500	1053.000	52.800	1103.000	54.900	1153.000	55.400	1203.000
GR	55.800	1253.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

XXXXXXXXX SECTION HG-3

X1	800.000	0.000	0.000	0.000	440.000	440.000	440.000	0.000	0.900	0.000
NC	0.150	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

XXXXXXXXX SECTION HG-4

X1	2200.000	18.000	973.000	1033.000	1400.000	1400.000	1400.000	0.000	0.000	0.000
GR	55.000	550.000	53.400	678.000	53.200	728.000	53.100	778.000	52.900	828.000
GR	52.400	878.000	52.300	928.000	51.200	973.000	37.000	993.000	35.900	1000.000
GR	36.800	1008.000	46.900	1033.000	52.300	1078.000	52.600	1128.000	52.900	1178.000
GR	53.100	1228.000	53.500	1278.000	55.000	1500.000	0.000	0.000	0.000	0.000
QT	9.000	915.000	915.000	915.000	915.000	0.000	415.000	736.000	915.000	1396.000

XXXXXXXXX SECTION HG-5

X1	3280.000	12.000	983.000	1013.000	1080.000	1080.000	1080.000	0.000	0.000	0.000
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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

THE GUT WELDUN& HALIFAX

SUMMARY PRINTOUT

SECR0	CRSEL	EG	ELMIN	ELLC	HV
1.000	21.45	21.49	14.00	0.00	0.04
1.000	21.95	21.99	14.00	0.00	0.04
1.000	22.20	22.25	14.00	0.00	0.04
1.000	22.81	22.86	14.00	0.00	0.05
2.000	21.45	21.49	14.00	0.00	0.04
2.000	21.95	21.99	14.00	0.00	0.04
2.000	22.20	22.25	14.00	0.00	0.04
2.000	22.81	22.86	14.00	0.00	0.05
3.000	21.45	21.49	14.00	0.00	0.04
3.000	21.95	21.99	14.00	0.00	0.04
3.000	22.20	22.25	14.00	0.00	0.04
3.000	22.81	22.86	14.00	0.00	0.05
4.000	21.45	21.49	14.00	0.00	0.04
4.000	21.95	21.99	14.00	0.00	0.04
4.000	22.21	22.25	14.00	0.00	0.04
4.000	22.82	22.86	14.00	0.00	0.05
* 100.000	30.80	32.12	26.90	0.00	1.32
* 100.000	32.09	33.78	26.90	0.00	1.70
* 100.000	32.66	34.53	26.90	0.00	1.87
* 100.000	33.99	36.23	26.90	0.00	2.24
101.000	31.30	32.22	26.90	0.00	0.92
101.000	32.72	33.90	26.90	0.00	1.18
101.000	33.34	34.65	26.90	0.00	1.32
101.000	34.78	36.37	26.90	0.00	1.60
110.000	31.60	32.35	26.90	0.00	0.75
110.000	33.01	34.02	26.90	0.00	1.01
110.000	33.67	34.78	26.90	0.00	1.12
110.000	35.14	36.51	26.90	0.00	1.37
200.000	32.52	32.95	26.90	0.00	0.43
200.000	34.06	34.67	26.90	0.00	0.61
200.000	34.75	35.44	26.90	0.00	0.69
200.000	36.30	37.19	26.90	0.00	0.89

	SECNO	CWSEL	EG	ELMIN	ELLC	HV
*	240.000	33.44	34.70	28.90	0.00	1.27
*	240.000	34.67	36.26	28.90	0.00	1.59
*	240.000	35.23	36.96	28.90	0.00	1.73
*	240.000	36.46	38.51	28.90	0.00	2.05
"	290.000	35.06	36.18	31.20	0.00	1.12
"	290.000	36.12	37.59	31.20	0.00	1.47
"	290.000	36.62	38.24	31.20	0.00	1.62
"	290.000	37.76	39.72	31.20	0.00	1.97
"	310.000	35.79	36.40	31.20	52.20	0.61
"	310.000	37.32	38.02	31.20	52.20	0.70
"	310.000	38.01	38.75	31.20	52.20	0.75
"	310.000	39.56	40.43	31.20	52.20	0.87
"	360.000	36.53	36.78	31.70	0.00	0.25
"	360.000	38.03	38.34	31.70	0.00	0.32
"	360.000	38.71	39.07	31.70	0.00	0.35
"	360.000	40.29	40.73	31.70	0.00	0.44
"	800.000	38.12	38.28	32.60	0.00	0.16
"	800.000	39.52	39.76	32.60	0.00	0.24
"	800.000	40.19	40.46	32.60	0.00	0.28
"	800.000	41.73	42.09	32.60	0.00	0.36
"	2200.000	41.84	42.06	35.90	0.00	0.21
"	2200.000	43.47	43.77	35.90	0.00	0.30
"	2200.000	44.21	44.55	35.90	0.00	0.34
"	2200.000	45.86	46.30	35.90	0.00	0.44
"	3280.000	43.61	43.71	37.70	0.00	0.10
"	3280.000	45.43	45.60	37.70	0.00	0.17
"	3280.000	46.24	46.45	37.70	0.00	0.20
"	3280.000	48.06	48.35	37.70	0.00	0.30
"	4500.000	44.59	44.65	39.50	0.00	0.06
"	4500.000	46.48	46.56	39.50	0.00	0.08
"	4500.000	47.34	47.43	39.50	0.00	0.09
"	4500.000	49.27	49.39	39.50	0.00	0.12
"	6160.000	45.82	45.89	38.40	0.00	0.07
"	6160.000	47.74	47.84	38.40	0.00	0.10
"	6160.000	48.59	48.72	38.40	0.00	0.12
"	6160.000	50.46	50.61	38.40	0.00	0.15
"	6230.000	45.87	45.96	40.50	0.00	0.09
"	6230.000	47.80	47.92	40.50	0.00	0.12
"	6230.000	48.65	48.79	40.50	0.00	0.14
"	6230.000	50.51	50.68	40.50	0.00	0.16
"	6280.000	47.39	49.93	41.90	0.00	2.54
"	6280.000	48.54	48.89	41.90	0.00	0.35
"	6280.000	48.54	49.10	41.90	0.00	0.56
"	6280.000	50.53	50.79	41.90	0.00	0.26

SECNO	CWSEL	EG	ELMIN	ELLC	HV
6380.000	61.04	61.27	43.70	45.80	0.23
6380.000	63.78	63.78	43.70	45.80	0.00
6380.000	63.98	63.98	43.70	45.80	0.00
6380.000	64.42	64.42	43.70	45.80	0.00
6420.000	61.32	61.32	44.10	0.00	0.00
6420.000	63.78	63.78	44.10	0.00	0.00
6420.000	63.98	63.98	44.10	0.00	0.00
6420.000	64.42	64.42	44.10	0.00	0.00
6500.000	61.32	61.32	44.10	0.00	0.00
6500.000	63.78	63.78	44.10	0.00	0.00
6500.000	63.98	63.98	44.10	0.00	0.00
6500.000	64.42	64.42	44.10	0.00	0.00

THE GUT WELDON & HALIFAX

SUMMARY PRINTOUT

SECNO	CWSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
1.000	21.45	0.00	2380.00	0.00	0.00	1.55	0.00
1.000	21.95	0.00	2740.00	0.00	0.00	1.62	0.00
1.000	22.20	0.00	2940.00	0.00	0.00	1.66	0.00
1.000	22.81	0.00	3485.00	0.00	0.00	1.77	0.00
2.000	21.45	0.00	2380.00	0.00	0.00	1.55	0.00
2.000	21.95	0.00	2740.00	0.00	0.00	1.62	0.00
2.000	22.20	0.00	2940.00	0.00	0.00	1.66	0.00
2.000	22.81	0.00	3485.00	0.00	0.00	1.77	0.00
3.000	21.45	0.00	2380.00	0.00	0.00	1.54	0.00
3.000	21.95	0.00	2740.00	0.00	0.00	1.62	0.00
3.000	22.20	0.00	2940.00	0.00	0.00	1.66	0.00
3.000	22.81	0.00	3485.00	0.00	0.00	1.77	0.00
4.000	21.45	0.00	2380.00	0.00	0.00	1.54	0.00
4.000	21.95	0.00	2740.00	0.00	0.00	1.62	0.00
4.000	22.21	0.00	2940.00	0.00	0.00	1.65	0.00
4.000	22.82	0.00	3485.00	0.00	0.00	1.77	0.00
* 100.000	30.80	0.00	480.00	0.00	0.00	9.22	0.00
* 100.000	32.09	0.00	840.00	0.00	0.00	10.45	0.00
* 100.000	32.66	0.00	1040.00	0.00	0.00	10.96	0.00
* 100.000	33.99	0.00	1585.00	0.00	0.00	12.01	0.00
101.000	31.30	0.00	480.00	0.00	0.00	7.70	0.00
101.000	32.72	0.00	840.00	0.00	0.00	8.70	0.00
101.000	33.34	0.00	1040.00	0.00	0.00	9.21	0.00
101.000	34.76	0.00	1585.00	0.00	0.00	10.14	0.00
110.000	31.60	0.00	480.00	0.00	0.00	6.95	0.00
110.000	33.01	0.00	840.00	0.00	0.00	8.06	0.00
110.000	33.67	0.00	1040.00	0.00	0.00	8.48	0.00
110.000	35.14	0.00	1585.00	0.00	0.00	9.40	0.00
200.000	32.52	0.00	480.00	0.00	0.00	5.27	0.00
200.000	34.06	0.00	840.00	0.00	0.00	6.27	0.00
200.000	34.75	0.00	1040.00	0.00	0.00	6.68	0.00
200.000	36.30	0.00	1585.00	0.00	0.00	7.56	0.00
* 240.000	33.44	0.00	480.00	0.00	0.00	9.03	0.00
* 240.000	34.67	0.00	840.00	0.00	0.00	10.11	0.00
* 240.000	35.23	0.00	1040.00	0.00	0.00	10.56	0.00
* 240.000	36.46	0.00	1585.00	0.00	0.00	11.49	0.00
* 290.000	35.06	0.00	480.00	0.00	0.00	8.49	0.00
* 290.000	36.12	0.00	840.00	0.00	0.00	9.73	0.00
* 290.000	36.62	0.00	1040.00	0.00	0.00	10.23	0.00
* 290.000	37.76	0.00	1585.00	0.00	0.00	11.26	0.00
* 310.000	35.79	0.00	480.00	0.00	0.00	6.28	0.00
* 310.000	37.32	0.00	840.00	0.00	0.00	6.71	0.00
* 310.000	38.01	0.00	1040.00	0.00	0.00	6.93	0.00
* 310.000	39.56	0.00	1585.00	0.00	0.00	7.47	0.00

SECCO	CWSEL	GLOB	GCH	QROB	VLOB	VCH	VROB
360.000	36.53	0.00	480.00	0.00	0.00	4.03	0.00
360.000	38.03	0.00	840.00	0.00	0.00	4.54	0.00
360.000	38.71	0.00	1040.00	0.00	0.00	4.77	0.00
360.000	40.29	0.00	1585.00	0.00	0.00	5.30	0.00
800.000	38.12	0.00	480.00	0.00	0.00	3.23	0.00
800.000	39.52	0.00	840.00	0.00	0.00	3.93	0.00
800.000	40.19	0.00	1040.00	0.00	0.00	4.23	0.00
800.000	41.73	0.00	1585.00	0.00	0.00	4.83	0.00
2200.000	41.84	0.00	480.00	0.00	0.00	3.71	0.00
2200.000	43.47	0.00	840.00	0.00	0.00	4.41	0.00
2200.000	44.21	0.00	1040.00	0.00	0.00	4.69	0.00
2200.000	45.86	0.00	1585.00	0.00	0.00	5.31	0.00
3280.000	43.61	1.64	406.28	7.08	0.32	2.59	0.41
3280.000	45.43	5.17	708.56	22.26	0.44	3.35	0.57
3280.000	46.24	7.72	874.05	33.23	0.50	3.71	0.65
3280.000	48.06	16.14	1307.98	71.88	0.62	4.51	0.84
4500.000	44.59	0.00	390.00	0.00	0.00	1.89	0.00
4500.000	46.46	0.00	693.18	1.82	0.00	2.28	0.23
4500.000	47.34	0.00	860.78	5.21	0.00	2.46	0.29
4500.000	49.27	0.62	1302.18	22.21	0.17	2.86	0.42
6160.000	45.82	0.00	260.00	0.00	0.00	2.07	0.00
6160.000	47.74	0.00	492.00	0.00	0.00	2.60	0.00
6160.000	48.59	0.72	619.28	0.00	0.16	2.80	0.00
6160.000	50.46	36.91	918.09	0.00	0.41	3.16	0.00
6230.000	45.87	0.00	260.00	0.00	0.00	2.35	0.00
6230.000	47.80	0.00	492.00	0.00	0.00	2.80	0.00
6230.000	48.65	1.00	619.00	0.00	0.16	2.98	0.00
6230.000	50.51	37.13	917.87	0.00	0.40	3.28	0.00
* 6280.000	47.39	0.00	260.00	0.00	0.00	12.79	0.00
* 6280.000	48.54	289.27	185.77	16.96	1.71	7.45	1.36
* 6280.000	48.54	364.49	234.14	21.37	2.16	9.39	1.71
6280.000	50.53	676.06	243.27	35.66	1.99	7.39	1.42
6380.000	61.04	0.00	260.00	0.00	0.00	3.84	0.00
6380.000	63.78	270.79	36.29	184.92	0.14	0.46	0.09
6380.000	63.98	338.36	44.94	236.70	0.18	0.57	0.12
6380.000	64.42	512.23	66.77	376.00	0.26	0.82	0.17
6420.000	61.32	156.00	68.82	35.16	0.09	0.31	0.07
6420.000	63.78	293.38	124.67	73.95	0.14	0.49	0.11
6420.000	63.98	369.54	156.54	93.92	0.17	0.61	0.13
6420.000	64.42	568.59	239.28	147.13	0.25	0.92	0.20
6500.000	61.32	156.00	68.82	35.16	0.09	0.31	0.07
6500.000	63.78	293.38	124.67	73.95	0.14	0.49	0.11
6500.000	63.98	369.54	156.54	93.92	0.17	0.61	0.13
6500.000	64.42	568.58	239.28	147.14	0.25	0.92	0.20

THE GUT WELDON & HALIFAX

SUMMARY PRINTOUT

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
1.000	21.45	4011.78	3920.00	4400.00	4316.13	304.35
1.000	21.95	4001.15	3920.00	4400.00	4317.37	316.22
1.000	22.20	3999.49	3920.00	4400.00	4318.01	318.51
1.000	22.81	3997.97	3920.00	4400.00	4319.53	321.56
2.000	21.45	4011.77	3920.00	4400.00	4316.13	304.35
2.000	21.95	4001.15	3920.00	4400.00	4317.37	316.22
2.000	22.20	3999.49	3920.00	4400.00	4318.01	318.52
2.000	22.81	3997.97	3920.00	4400.00	4319.53	321.56
3.000	21.45	4011.75	3920.00	4400.00	4316.13	304.38
3.000	21.95	4001.12	3920.00	4400.00	4317.37	316.25
3.000	22.20	3999.49	3920.00	4400.00	4318.01	318.52
3.000	22.81	3997.97	3920.00	4400.00	4319.53	321.57
4.000	21.45	4011.71	3920.00	4400.00	4316.13	304.43
4.000	21.95	4001.08	3920.00	4400.00	4317.37	316.29
4.000	22.21	3999.48	3920.00	4400.00	4318.02	318.53
4.000	22.82	3997.96	3920.00	4400.00	4319.54	321.58
* 100.000	30.80	990.67	965.00	1050.00	1010.75	20.08
* 100.000	32.09	989.03	965.00	1050.00	1013.12	24.09
* 100.000	32.66	988.29	965.00	1050.00	1014.19	25.90
* 100.000	33.99	986.60	965.00	1050.00	1016.65	30.04
101.000	31.30	990.04	965.00	1050.00	1011.66	21.62
101.000	32.72	988.21	965.00	1050.00	1014.31	26.10
101.000	33.34	987.44	965.00	1050.00	1015.43	27.99
101.000	34.78	985.61	965.00	1050.00	1018.10	32.49
110.000	31.60	989.65	965.00	1050.00	1012.23	22.58
110.000	33.01	987.84	965.00	1050.00	1014.85	27.01
110.000	33.67	987.00	965.00	1050.00	1016.07	29.06
110.000	35.14	985.13	965.00	1050.00	1018.79	33.65
200.000	32.52	988.48	965.00	1050.00	1013.92	25.44
200.000	34.06	986.52	965.00	1050.00	1016.78	30.26
200.000	34.75	985.64	965.00	1050.00	1018.05	32.42
200.000	36.30	983.66	965.00	1050.00	1020.93	37.27
* 240.000	33.44	989.11	965.00	1050.00	1010.61	21.51
* 240.000	34.67	987.30	965.00	1050.00	1014.13	26.83
* 240.000	35.23	986.50	965.00	1050.00	1015.70	29.20
* 240.000	36.46	984.69	965.00	1050.00	1019.21	34.52
* 290.000	35.06	988.94	960.00	1040.00	1014.86	25.92
* 290.000	36.12	987.88	960.00	1040.00	1018.01	30.14
* 290.000	36.62	987.38	960.00	1040.00	1019.46	32.08
* 290.000	37.76	986.24	960.00	1040.00	1022.81	36.57
* 310.000	35.79	988.21	960.00	1040.00	1017.03	28.82
* 310.000	37.32	986.68	960.00	1040.00	1021.52	34.84
* 310.000	38.01	985.99	960.00	1040.00	1023.55	37.56
* 310.000	39.56	984.44	960.00	1040.00	1026.21	41.77

965 1050

960 1040

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775

522

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
360.000	36.53	973.06	993.00	1038.00	1015.05	42.00
360.000	38.03	970.88	953.00	1038.00	1017.54	46.66
360.000	38.71	969.88	953.00	1038.00	1018.69	48.81
360.000	40.29	967.58	993.00	1038.00	1021.32	53.74
800.000	38.12	972.06	953.00	1038.00	1016.20	44.14
800.000	39.52	970.02	953.00	1038.00	1018.53	48.52
800.000	40.19	969.06	953.00	1038.00	1019.63	50.57
800.000	41.73	966.80	953.00	1038.00	1022.22	55.42
2200.000	41.84	986.19	973.00	1033.00	1020.47	34.28
2200.000	43.47	983.89	973.00	1033.00	1024.51	40.63
2200.000	44.21	982.85	973.00	1033.00	1026.33	43.48
2200.000	45.86	980.52	973.00	1033.00	1030.42	49.90
3280.000	43.61	980.11	983.00	1013.00	1022.50	42.39
3280.000	45.43	978.66	983.00	1013.00	1027.28	48.63
3280.000	46.24	978.01	983.00	1013.00	1029.43	51.42
3280.000	48.06	976.55	983.00	1013.00	1034.00	57.44
4500.000	44.59	974.39	970.00	1025.00	1024.78	50.39
4500.000	46.48	972.03	970.00	1025.00	1034.07	62.04
4500.000	47.34	970.95	970.00	1025.00	1038.47	67.52
4500.000	49.27	963.70	970.00	1025.00	1048.29	84.59
6160.000	45.82	977.51	971.00	1009.00	1007.46	29.96
6160.000	47.74	971.78	971.00	1009.00	1008.01	36.23
6160.000	48.59	954.86	971.00	1009.00	1008.26	53.39
6160.000	50.46	904.66	971.00	1009.00	1008.79	104.13
6230.000	45.87	976.80	970.00	1009.00	1007.01	30.21
6230.000	47.80	970.64	970.00	1009.00	1007.73	37.08
6230.000	48.65	950.40	970.00	1009.00	1008.05	57.65
6230.000	50.51	906.06	970.00	1009.00	1008.75	102.69
* 6280.000	47.39	998.00	998.00	1002.00	1002.00	4.00
* 6280.000	48.54	917.31	998.00	1002.00	1007.26	89.95
* 6280.000	48.54	917.32	998.00	1002.00	1007.26	89.95
6280.000	50.53	905.99	998.00	1002.00	1009.48	103.49
6380.000	61.04	998.00	998.00	1002.00	1002.00	4.00
6380.000	63.78	819.14	998.00	1002.00	1311.09	491.95
6380.000	63.98	817.58	998.00	1002.00	1313.28	495.70
6380.000	64.42	814.25	998.00	1002.00	1317.97	503.72
6420.000	61.32	853.01	992.00	1005.00	1066.13	213.12
6420.000	63.78	839.07	992.00	1005.00	1077.96	238.90
6420.000	63.98	837.91	992.00	1005.00	1078.95	241.04
6420.000	64.42	835.42	992.00	1005.00	1082.19	246.77
6500.000	61.32	853.01	992.00	1005.00	1066.13	213.12
6500.000	63.78	839.07	992.00	1005.00	1077.96	238.90
6500.000	63.98	837.90	992.00	1005.00	1078.95	241.05
6500.000	64.42	835.42	992.00	1005.00	1082.21	246.79

1018.69

1024.51

1029.43

1034.07

1008.26

1007.73

1007.26

1311.09

1077.96

1078.95

1082.21

THE GUT WELDON & HALIFAX

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTHD	ELLC	ELMIN	Q	CASEL	CRINS	EG	10K*9	VCH	AREA	PERK
1.000	0.00	0.00	0.00	14.00	2380.00	21.45	0.00	21.49	12.00	1.55	1540.36	1602.70
1.000	0.00	0.00	0.00	14.00	2740.00	21.95	0.00	21.99	12.03	1.62	1694.25	1911.20
1.000	0.00	0.00	0.00	14.00	2940.00	22.20	0.00	22.25	12.02	1.66	1735.76	2007.36
1.000	0.00	0.00	0.00	14.00	3485.00	22.81	0.00	22.86	12.04	1.77	1970.73	2442.72
2.000	1.00	0.00	0.00	14.00	2380.00	21.45	0.00	21.49	12.00	1.55	1540.42	1601.80
2.000	1.00	0.00	0.00	14.00	2740.00	21.95	0.00	21.99	12.03	1.62	1694.31	1921.31
2.000	1.00	0.00	0.00	14.00	2940.00	22.20	0.00	22.25	12.02	1.66	1735.82	2067.48
2.000	1.00	0.00	0.00	14.00	3485.00	22.81	0.00	22.86	12.04	1.77	1970.80	2442.85
3.000	5.00	0.00	0.00	14.00	2380.00	21.45	0.00	21.49	12.00	1.54	1540.73	1602.34
3.000	5.00	0.00	0.00	14.00	2740.00	21.95	0.00	21.99	12.03	1.62	1694.64	1921.82
3.000	5.00	0.00	0.00	14.00	2940.00	22.20	0.00	22.25	12.02	1.66	1736.14	2068.09
3.000	5.00	0.00	0.00	14.00	3485.00	22.81	0.00	22.86	12.03	1.77	1971.13	2443.56
4.000	10.00	0.00	0.00	14.00	2380.00	21.45	0.00	21.49	12.00	1.54	1541.34	1603.28
4.000	10.00	0.00	0.00	14.00	2740.00	21.95	0.00	21.99	12.03	1.62	1695.28	1922.84
4.000	10.00	0.00	0.00	14.00	2940.00	22.21	0.00	22.25	12.02	1.65	1736.79	2069.36
4.000	10.00	0.00	0.00	14.00	3485.00	22.82	0.00	22.86	12.03	1.77	1971.79	2444.81
* 100.000	1.00	0.00	0.00	26.90	480.00	30.80	30.80	32.12	196.85	9.22	122.06	134.21
* 100.000	1.00	0.00	0.00	26.90	840.00	32.09	32.09	33.78	183.80	10.45	88.39	61.96
* 100.000	1.00	0.00	0.00	26.90	1040.00	32.66	32.66	34.33	179.88	10.96	94.85	77.54
* 100.000	1.00	0.00	0.00	26.90	1585.00	33.99	33.99	36.23	171.36	12.01	131.96	121.00
101.000	1.00	0.00	0.00	26.90	480.00	31.30	0.00	32.22	120.11	7.70	62.33	43.80
101.000	1.00	0.00	0.00	26.90	840.00	32.72	0.00	33.90	111.83	8.70	96.56	79.43
101.000	1.00	0.00	0.00	26.90	1040.00	33.34	0.00	34.65	112.40	9.21	122.88	98.10
101.000	1.00	0.00	0.00	26.90	1585.00	34.78	0.00	36.37	108.56	10.14	156.38	152.22
110.000	9.00	0.00	0.00	26.90	480.00	31.60	0.00	32.35	90.59	6.95	69.11	50.43
110.000	9.00	0.00	0.00	26.90	840.00	33.01	0.00	34.02	90.86	8.06	104.26	88.22
110.000	9.00	0.00	0.00	26.90	1040.00	33.67	0.00	34.78	89.79	8.48	122.68	109.75
110.000	9.00	0.00	0.00	26.90	1585.00	35.14	0.00	36.51	88.56	9.40	168.71	168.43
200.000	90.00	0.00	0.00	26.90	480.00	32.52	0.00	32.95	42.72	5.27	91.12	73.44
200.000	90.00	0.00	0.00	26.90	840.00	34.06	0.00	34.67	46.15	6.27	134.04	122.85
200.000	90.00	0.00	0.00	26.90	1040.00	34.75	0.00	35.44	47.32	6.68	159.66	151.58
200.000	90.00	0.00	0.00	26.90	1585.00	36.30	0.00	37.19	49.38	7.56	209.78	225.59
* 240.000	40.00	0.00	0.00	28.90	480.00	33.44	33.44	34.70	207.25	9.03	53.15	133.34
* 240.000	40.00	0.00	0.00	28.90	840.00	34.67	34.67	36.26	191.73	10.11	83.07	68.66
* 240.000	40.00	0.00	0.00	28.90	1040.00	35.23	35.23	36.96	186.18	10.56	98.51	76.22
* 240.000	40.00	0.00	0.00	28.90	1585.00	36.46	36.46	38.51	175.75	11.49	137.91	119.58
* 290.000	50.00	0.00	0.00	31.20	480.00	35.06	35.06	36.18	198.50	8.49	56.33	134.07
* 290.000	50.00	0.00	0.00	31.20	840.00	36.12	36.12	37.59	183.87	9.73	86.37	61.99
* 290.000	50.00	0.00	0.00	31.20	1040.00	36.62	36.62	38.24	178.71	10.23	101.71	77.88
* 290.000	50.00	0.00	0.00	31.20	1585.00	37.76	37.76	39.72	169.18	11.26	140.76	121.86
* 310.000	20.00	53.20	52.20	31.20	480.00	35.79	0.00	36.40	84.45	6.28	76.48	122.23
* 310.000	20.00	53.20	52.20	31.20	840.00	37.32	0.00	38.02	69.70	6.71	129.53	103.64
* 310.000	20.00	53.20	52.20	31.20	1040.00	38.01	0.00	38.75	61.07	6.93	150.09	133.08
* 310.000	20.00	53.20	52.20	31.20	1585.00	39.56	0.00	40.43	52.70	7.87	222.21	219.58

SECRD	XLCH	ELTRD	ELLC	ELMIN	Ø	CHSEL	CRWS	EG	10KWS	VCH	AREA	ØBK
360.000	50.00	0.00	0.00	31.70	480.00	36.53	0.00	36.78	48.06	4.03	119.04	69.24
360.000	50.00	0.00	0.00	31.70	840.00	38.03	0.00	38.34	39.57	4.54	189.21	133.53
360.000	50.00	0.00	0.00	31.70	1040.00	38.71	0.00	39.07	37.63	4.77	238.13	169.54
360.000	50.00	0.00	0.00	31.70	1585.00	40.29	0.00	40.73	35.27	5.30	298.97	266.90
800.000	440.00	0.00	0.00	32.60	480.00	38.12	0.00	38.28	24.74	3.23	148.64	96.51
800.000	440.00	0.00	0.00	32.60	840.00	39.52	0.00	39.76	26.13	3.93	263.50	164.34
800.000	440.00	0.00	0.00	32.60	1040.00	40.19	0.00	40.46	26.53	4.23	246.12	201.91
800.000	440.00	0.00	0.00	32.60	1585.00	41.73	0.00	42.09	27.00	4.83	328.39	305.06
2200.000	1400.00	0.00	0.00	35.90	480.00	41.84	0.00	42.06	29.20	3.71	129.51	88.83
2200.000	1400.00	0.00	0.00	35.90	840.00	43.47	0.00	43.77	31.21	4.41	190.69	150.37
2200.000	1400.00	0.00	0.00	35.90	1040.00	44.21	0.00	44.55	31.85	4.69	221.61	184.27
2200.000	1400.00	0.00	0.00	35.90	1585.00	45.86	0.00	46.30	33.07	5.31	298.74	275.63
3280.000	1080.00	0.00	0.00	37.70	415.00	43.61	0.00	43.71	8.63	2.59	179.20	141.26
3280.000	1080.00	0.00	0.00	37.70	736.00	45.43	0.00	45.60	9.71	3.35	261.90	236.19
3280.000	1080.00	0.00	0.00	37.70	915.00	46.24	0.00	46.45	10.26	3.71	302.64	285.64
3280.000	1080.00	0.00	0.00	37.70	1396.00	48.06	0.00	48.35	11.49	4.51	401.65	411.83
4500.000	1220.00	0.00	0.00	39.50	390.00	44.59	0.00	44.65	6.66	1.89	209.94	151.12
4500.000	1220.00	0.00	0.00	39.50	695.00	46.48	0.00	46.56	6.24	2.28	311.73	278.12
4500.000	1220.00	0.00	0.00	39.50	866.00	47.34	0.00	47.43	6.21	2.46	367.60	347.64
4500.000	1220.00	0.00	0.00	39.50	1325.00	49.27	0.00	49.39	6.06	2.86	512.19	538.09
6160.000	1660.00	0.00	0.00	38.40	260.00	45.82	0.00	45.89	8.94	2.07	125.74	86.93
6160.000	1660.00	0.00	0.00	38.40	492.00	47.74	0.00	47.84	10.77	2.60	189.20	149.90
6160.000	1660.00	0.00	0.00	38.40	620.00	48.59	0.00	48.72	10.73	2.80	223.47	189.27
6160.000	1660.00	0.00	0.00	38.40	955.00	50.46	0.00	50.61	9.95	3.16	381.19	302.77
6230.000	70.00	0.00	0.00	40.50	260.00	45.87	0.00	45.96	8.51	2.35	110.78	89.13
6230.000	70.00	0.00	0.00	40.50	492.00	47.80	0.00	47.92	8.80	2.80	175.48	165.81
6230.000	70.00	0.00	0.00	40.50	620.00	48.65	0.00	48.79	8.32	2.98	214.20	214.90
6230.000	70.00	0.00	0.00	40.50	955.00	50.51	0.00	50.68	7.22	3.28	371.63	355.31
* 6280.000	50.00	0.00	0.00	41.90	260.00	47.39	47.39	49.93	454.28	12.79	20.33	12.20
* 6280.000	50.00	0.00	0.00	41.90	492.00	48.54	48.54	48.89	66.60	7.45	208.31	60.29
* 6280.000	50.00	0.00	0.00	41.90	620.00	48.54	48.54	49.10	105.82	9.39	206.26	60.27
6280.000	50.00	0.00	0.00	41.90	955.00	50.53	0.00	50.79	45.32	7.39	397.95	141.86
6380.000	100.00	63.00	45.80	43.70	260.00	61.04	0.00	61.27	23.37	3.84	67.75	53.78
6380.000	100.00	63.00	45.80	43.70	492.00	63.78	0.00	63.78	0.06	0.46	3920.12	2095.92
6380.000	100.00	63.00	45.80	43.70	620.00	63.98	0.00	63.98	0.08	0.57	4021.56	2170.06
6380.000	100.00	63.00	45.80	43.70	955.00	64.42	0.00	64.42	0.17	0.82	4241.08	2333.32
6420.000	50.00	0.00	0.00	44.10	260.00	61.32	0.00	61.32	0.02	0.31	2514.11	2028.99
6420.000	50.00	0.00	0.00	44.10	492.00	63.78	0.00	63.78	0.03	0.49	3070.24	2654.79
6420.000	50.00	0.00	0.00	44.10	620.00	63.98	0.00	63.98	0.05	0.61	3119.45	2711.18
6420.000	50.00	0.00	0.00	44.10	955.00	64.42	0.00	64.42	0.11	0.92	3226.17	2834.27
6500.000	80.00	0.00	0.00	44.10	260.00	61.32	0.00	61.32	0.02	0.31	2514.14	2028.42
6500.000	80.00	0.00	0.00	44.10	492.00	63.78	0.00	63.78	0.03	0.49	3070.32	2654.89
6500.000	80.00	0.00	0.00	44.10	620.00	63.98	0.00	63.98	0.05	0.61	3119.58	2711.33
6500.000	80.00	0.00	0.00	44.10	955.00	64.42	0.00	64.42	0.11	0.92	3226.44	2834.59

THE GUT WELDON & HALIFAX

SUMMARY PRINTOUT TABLE 150

SECAO	W	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1.000	2380.00	21.45	0.00	0.00	3.45	304.35	0.00
1.000	2740.00	21.95	0.50	0.00	3.95	316.22	0.00
1.000	2940.00	22.20	0.26	0.00	4.20	318.51	0.00
1.000	3485.00	22.81	0.61	0.00	4.81	321.56	0.00
2.000	2380.00	21.45	0.00	0.00	0.00	304.35	1.00
2.000	2740.00	21.95	0.50	0.00	0.00	316.22	1.00
2.000	2940.00	22.20	0.26	0.00	0.00	318.52	1.00
2.000	3485.00	22.81	0.61	0.00	0.00	321.56	1.00
3.000	2380.00	21.45	0.00	0.00	0.00	304.38	5.00
3.000	2740.00	21.95	0.50	0.00	0.00	316.25	5.00
3.000	2940.00	22.20	0.26	0.00	0.00	318.52	5.00
3.000	3485.00	22.81	0.61	0.00	0.00	321.57	5.00
4.000	2380.00	21.45	0.00	0.00	0.00	304.43	10.00
4.000	2740.00	21.95	0.50	0.00	0.00	316.29	10.00
4.000	2940.00	22.21	0.26	0.00	0.00	318.53	10.00
4.000	3485.00	22.82	0.61	0.00	0.00	321.58	10.00
* 100.000	480.00	30.80	0.00	9.35	0.00	20.08	1.00
* 100.000	840.00	32.09	1.28	10.14	0.00	24.09	1.00
* 100.000	1040.00	32.66	0.58	10.46	0.00	25.90	1.00
* 100.000	1585.00	33.99	1.33	11.18	0.00	30.04	1.00
101.000	480.00	31.30	0.00	0.49	0.00	21.62	1.00
101.000	840.00	32.72	1.43	0.64	0.00	26.10	1.00
101.000	1040.00	33.34	0.61	0.67	0.00	27.99	1.00
101.000	1585.00	34.78	1.44	0.79	0.00	32.49	1.00
110.000	480.00	31.60	0.00	0.30	0.00	22.58	9.00
110.000	840.00	33.01	1.42	0.29	0.00	27.01	9.00
110.000	1040.00	33.67	0.65	0.33	0.00	29.04	9.00
110.000	1585.00	35.14	1.47	0.36	0.00	33.61	9.00
200.000	480.00	32.52	0.00	0.92	0.00	25.44	90.00
200.000	840.00	34.06	1.54	1.04	0.00	30.26	90.00
200.000	1040.00	34.75	0.69	1.08	0.00	32.42	90.00
200.000	1585.00	36.30	1.55	1.16	0.00	37.27	90.00
* 240.000	480.00	33.44	0.00	0.92	0.00	21.51	40.00
* 240.000	840.00	34.67	1.24	0.62	0.00	26.83	40.00
* 240.000	1040.00	35.23	0.55	0.48	0.00	29.20	40.00
* 240.000	1585.00	36.46	1.24	0.16	0.00	34.52	40.00
* 290.000	480.00	35.06	0.00	1.62	0.00	25.92	50.00
* 290.000	840.00	36.12	1.06	1.45	0.00	30.14	50.00
* 290.000	1040.00	36.62	0.49	1.39	0.00	32.08	50.00
* 290.000	1585.00	37.76	1.14	1.29	0.00	36.57	50.00
* 310.000	480.00	35.79	0.00	0.73	0.00	28.82	20.00
* 310.000	840.00	37.32	1.53	1.19	0.00	34.84	20.00
* 310.000	1040.00	38.01	0.69	1.39	0.00	37.56	20.00
* 310.000	1585.00	39.56	1.55	1.81	0.00	41.77	20.00

SECNO	Q	CMSL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
360.000	480.00	36.53	0.00	0.74	0.00	42.00	50.00
360.000	840.00	38.03	1.49	0.71	0.00	46.66	50.00
360.000	1040.00	38.71	0.69	0.71	0.00	48.81	50.00
360.000	1585.00	40.29	1.58	0.73	0.00	53.74	50.00
800.000	480.00	38.12	0.00	1.58	0.00	44.14	440.00
800.000	840.00	39.52	1.40	1.49	0.00	48.52	440.00
800.000	1040.00	40.19	0.67	1.47	0.00	50.57	440.00
800.000	1585.00	41.73	1.55	1.44	0.00	55.42	440.00
2200.000	480.00	41.84	0.00	3.73	0.00	34.28	1400.00
2200.000	840.00	43.47	1.63	3.95	0.00	40.63	1400.00
2200.000	1040.00	44.21	0.73	4.02	0.00	43.48	1400.00
2200.000	1585.00	45.86	1.65	4.13	0.00	49.90	1400.00
3280.000	415.00	43.81	0.00	1.77	0.00	42.39	1080.00
3280.000	736.00	45.43	1.82	1.95	0.00	48.63	1080.00
3280.000	915.00	46.24	0.81	2.03	0.00	51.42	1080.00
3280.000	1396.00	48.06	1.82	2.20	0.00	57.44	1080.00
4500.000	390.00	44.59	0.00	0.98	0.00	50.39	1220.00
4500.000	695.00	46.48	1.89	1.05	0.00	62.04	1220.00
4500.000	866.00	47.34	0.86	1.10	0.00	67.52	1220.00
4500.000	1325.00	49.27	1.93	1.21	0.00	84.59	1220.00
6160.000	260.00	45.62	0.00	1.23	0.00	29.96	1660.00
6160.000	492.00	47.74	1.92	1.26	0.00	36.23	1660.00
6160.000	620.00	48.59	0.85	1.25	0.00	53.39	1660.00
6160.000	955.00	50.46	1.87	1.20	0.00	104.13	1660.00
6230.000	260.00	45.87	0.00	0.05	0.00	30.21	70.00
6230.000	492.00	47.80	1.93	0.06	0.00	37.08	70.00
6230.000	620.00	48.65	0.85	0.06	0.00	57.65	70.00
6230.000	955.00	50.51	1.86	0.05	0.00	102.69	70.00
6280.000	260.00	47.39	0.00	1.51	0.00	4.00	50.00
6280.000	492.00	48.54	1.15	0.74	0.00	89.95	50.00
6280.000	620.00	48.54	0.00	-0.11	0.00	89.95	50.00
6280.000	955.00	50.53	1.99	0.01	0.00	103.49	50.00
6380.000	260.00	61.04	0.00	13.66	0.00	4.00	100.00
6380.000	492.00	63.78	2.73	15.24	0.00	491.95	100.00
6380.000	620.00	63.98	0.21	15.45	0.00	495.70	100.00
6380.000	955.00	64.42	0.44	13.69	0.00	503.72	100.00
6420.000	260.00	61.32	0.00	0.27	0.00	213.12	50.00
6420.000	492.00	63.78	2.46	0.00	0.00	238.90	50.00
6420.000	620.00	63.98	0.21	0.00	0.00	241.04	50.00
6420.000	955.00	64.42	0.44	0.00	0.00	246.77	50.00
6500.000	260.00	61.32	0.00	0.00	0.00	213.12	80.00
6500.000	492.00	63.78	2.46	0.00	0.00	238.90	80.00
6500.000	620.00	63.98	0.21	0.00	0.00	241.05	80.00
6500.000	955.00	64.42	0.44	0.00	0.00	246.79	80.00

SUMMARY OF ERRORS

CAUTION	SECNO=	100.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	100.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	100.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	100.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	100.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	100.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	100.000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	100.000	PROFILE=	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	100.000	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	100.000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	100.000	PROFILE=	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	100.000	PROFILE=	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	240.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	240.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	240.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	240.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	240.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	240.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	240.000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	240.000	PROFILE=	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	240.000	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	240.000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	240.000	PROFILE=	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	240.000	PROFILE=	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	290.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	290.000	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	290.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	290.000	PROFILE=	2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	290.000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	290.000	PROFILE=	3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	290.000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	290.000	PROFILE=	4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	310.000	PROFILE=	1	HYDRAULIC JUMP D.S.
CAUTION	SECNO=	310.000	PROFILE=	2	HYDRAULIC JUMP D.S.
CAUTION	SECNO=	310.000	PROFILE=	3	HYDRAULIC JUMP D.S.
CAUTION	SECNO=	310.000	PROFILE=	4	HYDRAULIC JUMP D.S.
CAUTION	SECNO=	6280.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	6280.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	6280.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	6280.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	6280.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	6280.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	6280.000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	6280.000	PROFILE=	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	6280.000	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOOD INSURANCE ZONE DATA FOR THE GUT, WELDON & HALIFAX

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND I		
		10%	2%	0.2%
1,000	0.	-0.75	-0.26	0.61
2,000	1.	-0.75	-0.26	0.61
3,000	6.	-0.75	-0.26	0.61
4,000	16.	-0.75	-0.26	0.61
100,000	17.	-1.86	-0.58	1.33
101,000	18.	-2.04	-0.61	1.44
110,000	27.	-2.07	-0.65	1.47
200,000	117.	-2.23	-0.69	1.55
240,000	157.	-1.79	-0.55	1.24
290,000	207.	-1.56	-0.49	1.14
310,000	227.	-2.22	-0.69	1.55
360,000	277.	-2.18	-0.69	1.58
800,000	717.	-2.07	-0.67	1.55
2200,000	2117.	-2.37	-0.73	1.65
3280,000	3197.	-2.63	-0.81	1.82
4500,000	4417.	-2.75	-0.86	1.93
6160,000	6077.	-2.77	-0.85	1.87
6230,000	6147.	-2.78	-0.85	1.86
6280,000	6197.	-1.15	0.00	1.99
6380,000	6297.	-2.94	-0.21	0.44
6420,000	6347.	-2.67	-0.21	0.44
6500,000	6427.	-2.67	-0.21	0.44
WEIGHTED AVG FOR REACH		-2.49	-0.75	1.71

FHF FOR THE REACH = 0.25 WITH 59.71% OF THE REACH WITHIN 1.0 FEET ZONE FOR THE REACH = A 5

13 Nov 78
[Signature]

 RELEASE DATED NOV 78 UPDATED AGG 77
 ERROR CORR - 01,02
 MODIFICATION - 30,31,32,33

C THE CUI WELDON HALIFAX CO INC
 TI FPM-F15 0017800P
 TR 100 YEAR
 TS THE CUI WELDON HALIFAX CO.

J1	ICHECK	IND	NJAV	IDIR	STRT	PERICL	OVINS	L	ASEI	FN
	0.	9.	0.	0.	0.000000	0.00	0.0	0.	selected	0.000

J2	APROF	IPLOT	PREVS	XSECV	XSECB	FN	ALLOU	IBX	CPNIF	IBRACF
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	15.000

J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	1.000	2.000	42.000	41.000	5.000	43.000	0.000	32.000	1.000

	53.000	21.000	27.000	54.000	4.000	0.000	200.000	0.000	0.000	0.000
AG	0.120	0.120	0.040	0.200	0.400	0.000	0.000	0.000	0.000	0.000
GI	9.000	1040.000	1040.000	1040.000	1040.000	0.000	480.000	840.000	1040.000	1585.000
LI	0.000	3.100	565.000	1050.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	100.000	14.000	965.000	1050.000	0.000	0.000	0.000	0.000	0.000	0.000
GN	52.500	725.000	52.500	875.000	52.500	875.000	52.500	935.000	50.700	565.000
GR	43.100	975.000	29.400	995.000	28.900	1000.000	29.700	1000.000	38.500	1025.000
GU	53.500	1050.000	52.600	1075.000	53.300	1225.000	53.100	1275.000	0.000	0.000
LI	0.000	3.100	565.000	1050.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	101.000	0.000	0.000	0.000	1.000	1.000	1.000	0.000	0.000	0.000
LI	0.000	3.100	565.000	1050.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	110.000	0.000	0.000	0.000	5.000	5.000	5.000	0.000	0.000	0.000
LI	0.000	3.100	565.000	1050.000	0.000	0.000	0.100	0.100	0.000	0.000

XXXXXXXXXXXXXXXXXXXX

X1	100.000	14.000	965.000	1050.000	40.000	40.000	40.000	0.000	0.000	0.000
GN	52.600	725.000	52.600	875.000	52.500	875.000	52.200	935.000	50.700	565.000
GR	43.100	975.000	29.400	995.000	28.900	1000.000	29.700	1000.000	38.500	1025.000
GU	53.500	1050.000	52.600	1075.000	53.300	1225.000	53.100	1275.000	0.000	0.000
LI	0.000	3.100	565.000	1050.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	240.000	14.000	965.000	1050.000	40.000	40.000	40.000	0.000	0.000	0.000
GN	52.600	725.000	52.600	875.000	52.500	875.000	52.200	935.000	50.700	565.000
GR	43.100	975.000	29.400	995.000	28.900	1000.000	29.700	1000.000	38.500	1025.000
GU	53.500	1050.000	52.600	1075.000	53.300	1225.000	53.100	1275.000	0.000	0.000

NC	0.100	0.100	70.000	100.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	3.100	460.000	1040.000	0.000	0.000	0.000	0.000	0.000	0.000

XXXXXXXXX SECTION HG-2 ** SR1650

X1	290.000	21.000	960.000	1040.000	50.000	50.000	50.000	0.000	0.000	0.000
X2	10.000	0.000	0.000	0.000	0.000	0.000	0.000	52.000	52.000	0.000
GR	52.000	725.000	53.000	875.000	52.500	925.000	50.700	960.000	50.500	960.000
GR	44.000	980.000	54.000	940.000	51.200	1000.000	51.000	1064.000	50.500	1065.000
GR	35.100	1015.000	58.500	1025.000	42.900	1030.000	47.300	1025.000	45.000	1040.000
GR	53.200	1050.000	52.500	1110.000	53.000	1275.000	54.700	1275.000	50.100	1225.000
GR	56.800	1410.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SO	1.250	1.000	2.500	0.000	14.000	0.000	0.000	1.570	51.000	51.200
ET	0.000	3.110	960.000	1040.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	310.000	0.000	0.000	0.000	20.000	70.000	70.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	52.200	53.200	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	53.200	52.300	0.000
H1	11.000	725.000	52.000	0.000	875.000	53.200	0.000	925.000	52.500	0.000
H1	960.000	53.500	52.200	1040.000	53.000	72.200	1125.000	53.500	0.000	1175.000
H1	53.500	0.000	1225.000	53.000	0.000	1275.000	54.700	0.000	1325.000	56.100
H1	0.000	1410.000	50.000	0.000	0.000	0.000	0.000	0.000	52.000	0.000
AL	0.120	7.120	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	3.110	952.000	1030.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	360.000	16.000	953.000	1038.000	50.000	50.000	50.000	0.000	-0.900	0.000
GR	53.500	653.000	53.400	703.000	52.100	753.000	50.400	503.000	50.100	851.000
GR	50.100	903.000	51.200	953.000	38.100	975.000	32.000	1000.000	36.200	1015.000
GR	51.200	1030.000	52.500	1053.000	52.000	1103.000	52.500	1153.000	52.400	1203.000
GR	55.800	1253.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	3.100	953.000	1038.000	0.000	0.000	0.000	0.000	0.000	0.000

XXXXXXXXX SECTION HL-3

X1	400.000	0.000	0.000	0.000	440.000	440.000	440.000	0.000	0.900	0.000
AL	0.150	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	3.100	973.000	1053.000	0.000	0.000	0.000	0.000	0.000	0.000

XXXXXXXXX SECTION HL-4

X1	2200.000	18.000	973.000	1033.000	1400.000	1400.000	1400.000	0.000	0.000	0.000
GR	55.000	550.000	53.900	678.000	53.200	728.000	53.100	770.000	52.900	820.000
GR	52.400	678.000	50.500	728.000	51.000	873.000	51.000	923.000	52.900	973.000
GR	36.800	1008.000	46.900	1033.000	52.500	1078.000	52.000	1120.000	52.900	1178.000
GR	53.100	1223.000	52.500	1278.000	53.000	1300.000	0.000	0.000	0.000	0.000
AL	9.000	915.000	915.000	915.000	915.000	0.000	915.000	730.000	915.000	1290.000
ET	0.000	3.100	973.000	1033.000	0.000	0.000	0.000	0.000	0.000	0.000

XXXXXXXXX SECTION HG-5

X1	3200.000	12.000	967.000	1013.000	1000.000	1030.000	1000.000	0.000	0.000	0.000
GR	75.000	810.000	51.000	920.000	50.000	970.000	40.000	925.000	50.500	980.000
GR	57.700	1000.000	58.500	1010.000	40.000	1015.000	47.000	1033.000	49.900	1038.000
GR	54.000	1240.000	53.000	1340.000	0.000	0.000	0.000	0.000	0.000	0.000
AL	9.000	860.000	860.000	860.000	860.000	0.000	860.000	695.000	860.000	1205.000
ET	0.000	3.100	970.000	1030.000	0.000	0.000	0.000	0.000	0.000	0.000

XXXXXXXXX SECTION HG-6

REC2 RELEASE DATED NOV 78 UPDATED AUG 77

ERROR CORR - 01,02

MODIFICATION - 90,91,92,93

11 FPR-FIS OCT78RT

12 100 YEAR ESC

13 THE CIT WELDON'S DELIFAX CO.

01	TELE	TR	WTR	TRF	STRT	PLATE	PRINC	0.	POST	TR
0.	2.	0.	0.	0.000000	0.00	0.0	0.	32.000	0.000	

14	APR01	TRC01	PRC01	XPR01	XPR01	TR	PLATE	TR	TRC01	TRC01
15.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.000

PLC2 RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CORR = 01,02

FOURIFICATION = 50,51,52,53

NOTE - ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES POSSIBLE IN-SUBJECT OF ERRORS LIST

THE END WELDING HALF AX

SUBSARY PRINTOUT

SECTN	COST	PL	PLIN	PLC	PLPS	W
* 100.000	52.07	50.53	26.90	0.00	177.40	1000.00
* 100.000	52.07	50.55	26.90	0.00	178.40	1000.00
101.000	53.33	50.65	26.90	0.00	110.90	1000.00
101.000	53.33	50.65	26.90	0.00	110.90	1000.00
110.000	53.66	50.70	26.90	0.00	90.07	1000.00
110.000	53.66	50.70	26.90	0.00	90.07	1000.00
200.000	54.75	55.94	26.90	0.00	47.57	1000.00
200.000	54.75	55.94	26.90	0.00	47.57	1000.00
* 200.000	55.23	56.96	26.90	0.00	100.16	1000.00
* 200.000	55.23	56.96	26.90	0.00	100.16	1000.00
* 250.000	56.62	58.20	51.20	0.00	178.71	1000.00
* 250.000	56.62	58.20	51.20	0.00	178.71	1000.00
* 310.000	58.01	58.75	51.20	50.20	61.07	1000.00
* 310.000	58.01	58.75	51.20	50.20	61.07	1000.00
300.000	50.71	59.07	51.70	0.00	57.65	1000.00
300.000	50.71	59.07	51.70	0.00	57.65	1000.00
400.000	60.19	60.80	52.50	0.00	28.55	1000.00
400.000	60.19	60.80	52.50	0.00	28.55	1000.00
2200.000	64.21	60.50	55.50	0.00	51.25	1000.00
2200.000	64.21	60.50	55.50	0.00	51.25	1000.00
3200.000	66.29	60.45	57.70	0.00	10.27	915.00
3200.000	66.29	60.45	57.70	0.00	10.27	915.00
4500.000	67.50	67.65	59.50	0.00	6.21	800.00
4500.000	67.50	67.65	59.50	0.00	6.21	800.00
6100.000	68.59	68.70	58.40	0.00	10.75	600.00
6100.000	68.60	68.70	58.40	0.00	10.71	600.00

SICNO	CMSSEL	LG	FLMIB	ELLC	LOKAS	U
6250.000	46.65	46.79	40.50	0.00	8.32	620.00
6250.000	46.60	46.74	40.70	0.00	7.50	620.00
6280.000	48.54	49.10	41.90	0.00	10.82	620.00
6280.000	48.51	49.15	41.90	0.00	157.30	620.00
6580.000	63.96	63.96	43.70	45.80	0.00	620.00
6580.000	75.76	65.50	47.70	47.70	1.02	620.00
6620.000	65.96	65.50	44.10	0.00	0.00	620.00
6620.000	65.96	65.56	44.10	0.00	1.51	620.00
6500.000	65.96	65.96	44.10	0.00	0.05	620.00
6700.000	65.97	65.97	44.10	0.00	0.51	620.00

THE GUT WELDON & HALIFAX

SUMMARY PRINTOUT

SECNO	LNSEL	SSFA	STCHL	STCHR	LNOST	TOTPID
* 100.000	32.07	986.28	965.00	1050.00	1014.21	25.93
* 100.000	32.67	988.28	965.00	1050.00	1014.21	25.93
101.000	33.33	987.45	965.00	1050.00	1015.42	27.97
101.000	33.33	987.45	965.00	1050.00	1015.42	27.97
110.000	33.66	987.61	965.00	1050.00	1016.06	29.05
110.000	33.66	987.61	965.00	1050.00	1016.06	29.05
200.000	34.75	985.64	965.00	1050.00	1018.05	32.41
200.000	34.75	985.64	965.00	1050.00	1018.05	32.41
* 240.000	35.23	986.50	965.00	1050.00	1015.70	29.20
* 240.000	35.23	986.50	965.00	1050.00	1015.70	29.20
* 290.000	36.62	987.38	960.00	1040.00	1019.46	32.08
* 290.000	36.62	987.38	960.00	1040.00	1019.46	32.08
* 310.000	38.01	985.99	960.00	1040.00	1023.55	37.56
* 310.000	38.01	985.99	960.00	1040.00	1023.55	37.56
360.000	38.71	989.28	953.00	1050.00	1018.69	48.81
360.000	38.71	989.28	953.00	1050.00	1018.69	48.81
400.000	40.19	989.66	953.00	1050.00	1019.65	50.57
400.000	40.19	989.66	953.00	1050.00	1019.65	50.57
2200.000	44.21	987.85	973.00	1055.00	1020.55	43.46
2200.000	44.21	987.85	973.00	1055.00	1020.55	43.46
3280.000	46.24	986.00	963.00	1013.00	1025.00	45.00
3280.000	46.24	986.00	963.00	1013.00	1025.00	45.00
4500.000	47.34	976.95	970.00	1025.00	1050.47	67.52
4500.000	47.34	976.95	970.00	1025.00	1050.47	67.52
6100.000	48.60	965.00	971.00	1005.00	1007.26	32.26
6100.000	48.60	965.00	971.00	1005.00	1007.26	32.26
6230.000	48.65	950.40	970.00	1009.00	1008.05	57.65
6230.000	48.65	950.40	970.00	1009.00	1008.05	57.65
* 6280.000	48.51	960.00	998.00	1002.00	1007.25	47.25
* 6280.000	48.51	960.00	998.00	1002.00	1007.25	47.25
6380.000	63.96	817.50	992.00	1002.00	1312.20	495.70
6380.000	63.96	817.50	992.00	1002.00	1312.20	495.70
6420.000	63.96	970.00	992.00	1005.00	1025.00	55.00
6420.000	63.96	970.00	992.00	1005.00	1025.00	55.00
6500.000	63.97	970.00	992.00	1005.00	1025.00	55.00
6500.000	63.97	970.00	992.00	1005.00	1025.00	55.00

SUMMARY OF ERRORS

CAUTION	SECNO=	100.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	100.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	240.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	240.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	240.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	240.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	240.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	240.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	290.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	290.000	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	290.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	290.000	PROFILE=	2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	310.000	PROFILE=	1	HYDRAULIC JUMP O.S.
CAUTION	SECNO=	310.000	PROFILE=	2	HYDRAULIC JUMP O.S.
CAUTION	SECNO=	6280.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	6280.000	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	6280.000	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	6280.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	6280.000	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	6280.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOODWAY DATA, THE GOV WELDONG MALIFAX
 PROFILE NO. 2

STATION	FLOODWAY			WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
100.000	26.	95.	10.9	32.7	32.7	0.0
161.000	28.	115.	9.2	35.5	35.5	0.0
170.000	29.	125.	8.2	35.7	35.7	0.0
A 200.000	32.	156.	6.7	34.7	34.7	0.0
240.000	29.	94.	10.6	35.2	35.2	0.0
290.000	32.	102.	10.2	36.6	36.6	0.0
310.000	38.	150.	6.9	38.0	38.0	0.0
360.000	49.	216.	4.8	38.7	38.7	0.0
A 400.000	51.	246.	4.2	40.2	40.2	0.0
B 2200.000	43.	222.	4.7	44.2	44.2	0.0
3200.000	45.	237.	3.1	46.2	46.2	0.0
C 4500.000	59.	361.	2.4	47.5	47.5	0.0
D 6100.000	45.	224.	2.8	48.6	48.6	0.0
6230.000	46.	213.	2.9	48.7	48.7	0.0
6280.000	47.	154.	4.0	48.5	48.5	0.0
6380.000	55.	659.	0.7	64.0	64.0	0.0
6420.000	57.	1065.	0.6	64.0	64.0	0.0
6500.000	55.	1026.	0.8	64.0	64.0	0.0