

TRIBUTARY "A"

HAW RIVER

 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

TRIB TO HAN RIVER AT TOW

SUMMARY PRINTOUT

SECNO	CWSEL	EG	ELMIN	ELLC	10K*S	G
226857.000	481.40	482.50	473.90	0.00	100.82	10970.00
226857.000	481.40	482.50	473.90	0.00	100.82	10970.00
226858.000	481.41	482.51	473.90	0.00	100.25	10970.00
226858.000	481.41	482.51	473.90	0.00	100.25	10970.00
226868.000	481.59	482.62	473.91	0.00	91.42	10970.00
226868.000	481.59	482.62	473.91	0.00	91.42	10970.00
226900.000	482.00	482.91	473.94	0.00	74.44	10970.00
226900.000	482.00	482.91	473.94	0.00	74.44	10970.00
270.000	487.29	488.05	477.90	0.00	71.35	1110.00
270.000	487.29	488.05	477.90	0.00	71.48	1110.00
271.000	487.30	488.06	477.90	0.00	71.33	1110.00
271.000	487.30	488.06	477.90	0.00	71.34	1110.00
410.000	488.26	490.24	481.20	0.00	253.68	1110.00
410.000	488.26	490.24	481.20	0.00	253.02	1110.00
600.000	492.51	493.43	484.50	0.00	102.51	1020.00
600.000	492.51	493.46	484.50	0.00	105.37	1020.00
670.000	492.93	494.31	485.80	0.00	97.15	1020.00
670.000	492.97	494.32	485.80	0.00	95.29	1020.00
710.000	493.15	495.56	487.40	0.00	274.69	1020.00
710.000	493.15	495.56	487.40	0.00	274.68	1020.00
731.000	494.83	496.13	487.40	494.90	109.88	1020.00
731.000	494.83	496.13	487.40	494.90	109.80	1020.00
780.000	496.19	496.60	488.00	0.00	38.21	1020.00
780.000	496.05	496.62	488.00	0.00	49.42	1020.00
900.000	496.61	497.42	490.00	0.00	88.01	973.00
900.000	496.67	497.47	490.00	0.00	85.55	973.00

SECNO	CWSEL	EG	ELMIN	ELLC	10K*8	0
1100.000	498.47	499.47	492.20	0.00	111.74	973.00
1100.000	498.49	499.48	492.20	0.00	110.14	973.00
* 1300.000	501.14	502.50	495.10	0.00	139.57	973.00
* 1500.000	501.09	502.50	495.10	0.00	145.03	973.00

TRIB TO MAW RIVER AT TOW

SUMMARY PRINTOUT

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TORWID
226857.000	481.40	1286.68	1166.00	1583.00	1522.59	235.92
226857.000	481.40	1286.68	1166.00	1583.00	1522.59	235.92
226858.000	481.41	1286.62	1166.00	1583.00	1522.61	235.99
226858.000	481.41	1286.62	1166.00	1583.00	1522.61	235.99
226868.000	481.59	1285.67	1166.00	1583.00	1522.89	237.22
226868.000	481.59	1285.67	1166.00	1583.00	1522.89	237.22
226900.000	482.00	1285.47	1166.00	1583.00	1523.55	240.08
226900.000	482.00	1283.47	1166.00	1583.00	1523.55	240.08
270.000	487.29	1325.74	1321.00	1358.00	1352.93	27.18
270.000	487.29	1325.75	1321.00	1358.00	1352.92	27.17
271.000	487.30	1325.74	1321.00	1358.00	1352.93	27.18
271.000	487.30	1325.74	1321.00	1358.00	1352.93	27.18
410.000	488.26	1303.27	1300.00	1324.00	1324.00	19.61
410.000	488.26	1303.26	1300.00	1324.00	1322.88	19.62
600.000	492.51	1280.93	1315.00	1335.00	1405.24	124.32
600.000	492.51	1300.00	1315.00	1335.00	1380.00	80.00
670.000	492.93	1288.43	1320.00	1335.00	1378.83	90.40
670.000	492.97	1302.00	1320.00	1335.00	1370.00	68.00
710.000	493.15	1317.81	1317.00	1335.00	1335.00	17.19
710.000	493.15	1317.81	1317.00	1335.00	1335.00	17.19
731.000	494.83	1317.00	1317.00	1335.00	1335.00	18.00
731.000	494.83	1317.00	1317.00	1335.00	1335.00	18.00
780.000	495.19	500.00	990.00	1010.00	1047.60	147.60
780.000	496.05	570.00	990.00	1010.00	1030.00	60.00
900.000	496.61	963.53	995.00	1015.00	1034.63	71.09
900.000	496.67	970.00	995.00	1015.00	1030.00	60.00
1100.000	498.47	960.16	995.00	1015.00	1018.09	57.93
1100.000	498.49	960.05	995.00	1015.00	1018.12	58.07
1300.000	501.14	1495.64	1552.00	1569.00	1573.26	77.61
1300.000	501.09	1503.00	1552.00	1569.00	1573.00	70.00

SUMMARY OF ERRORS

CAUTION SECNO= 710.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 710.000 PROFILE= 1 MINIMUM-SPECIFIC-ENERGY
 CAUTION SECNO= 710.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 710.000 PROFILE= 2 MINIMUM-SPECIFIC-ENERGY
 CAUTION SECNO= 1300.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

 HEC2 RELEASE DATED NOV 75 UPDATED AUG 77
 ERROR CORR - 01702
 MODIFICATION - 5075152753

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

 TO - 600-RTIVE-AT-100
 SUMMARY PRINTOUT

SECTNO	CORREL	EB	EUMING	ELLC	RY
226857.000	481.23	482.29	473.96	0.00	1.06
226857.000	481.25	482.44	473.96	0.00	1.06
226857.000	481.41	482.51	473.96	0.00	1.10
226857.000	481.50	482.72	473.96	0.00	1.13
226858.000	481.23	482.30	473.96	0.00	1.05
226858.000	481.36	482.44	473.96	0.00	1.08
226858.000	481.44	482.52	473.96	0.00	1.07
226858.000	481.60	482.73	473.96	0.00	1.13
226860.000	481.42	482.41	473.91	0.00	0.99
226860.000	481.53	482.55	473.91	0.00	1.02
226860.000	481.60	482.63	473.91	0.00	1.03
226860.000	481.77	482.83	473.91	0.00	1.06
226900.000	481.43	482.70	473.94	0.00	0.87
226900.000	481.93	482.84	473.94	0.00	0.89
226900.000	482.01	482.91	473.94	0.00	0.90
226900.000	482.19	483.12	473.94	0.00	0.93
270.000	487.24	487.40	477.90	0.00	0.16
270.000	487.32	487.45	477.90	0.00	0.21
270.000	487.59	487.66	477.90	0.00	0.71
270.000	487.83	487.83	477.90	0.00	1.52
311.000	487.25	487.40	477.90	0.00	0.16
311.000	487.53	487.63	477.90	0.00	0.51
311.000	487.88	488.03	477.90	0.00	0.71
311.000	487.98	488.21	477.90	0.00	1.07
410.000	487.46	487.50	481.20	0.00	0.50
410.000	487.91	488.05	481.20	0.00	1.54
410.000	488.23	488.36	481.20	0.00	1.59
410.000	488.57	488.61	481.20	0.00	0.64
500.000	489.09	489.15	489.50	0.00	1.14
500.000	489.07	489.08	489.50	0.00	1.14
500.000	489.51	489.83	489.50	0.00	0.51
500.000	489.40	489.53	489.50	0.00	0.85

SECRET - EMBEL - FB - EMBEL - EMBEL - HV

670.000	496.90	491.56	485.80	0.00	0.00	0.66
670.000	492.45	493.58	485.80	0.00	0.00	1.14
670.000	492.93	494.31	485.80	0.00	0.00	1.27
670.000	490.40	495.69	485.80	0.00	0.00	1.29
710.000	491.01	492.52	487.40	0.00	0.00	1.51
710.000	492.49	494.43	487.40	0.00	0.00	2.14
710.000	493.15	495.56	487.40	0.00	0.00	2.41
710.000	494.39	497.24	487.40	0.00	0.00	0.65
731.000	492.26	495.61	487.40	494.50	494.50	0.75
731.000	494.06	495.16	487.40	494.50	494.50	1.12
731.000	494.82	496.13	487.40	494.50	494.50	1.50
731.000	497.76	498.13	487.40	494.50	494.50	0.75
750.000	492.90	493.52	488.00	0.00	0.00	0.65
750.000	495.63	495.40	488.00	0.00	0.00	0.65
750.000	496.13	496.80	488.00	0.00	0.00	0.41
750.000	494.01	496.27	488.00	0.00	0.00	0.26
800.000	494.29	495.13	490.00	0.00	0.00	0.45
900.000	495.69	494.74	490.00	0.00	0.00	0.25
900.000	496.61	497.42	490.00	0.00	0.00	0.31
900.000	498.12	498.53	490.00	0.00	0.00	0.81
1100.000	497.05	497.57	492.20	0.00	0.00	0.59
1100.000	498.01	498.48	492.20	0.00	0.00	0.87
1100.000	498.47	499.27	492.20	0.00	0.00	1.09
1100.000	499.51	500.26	492.20	0.00	0.00	1.25
1300.000	500.10	500.17	495.10	0.00	0.00	0.59
1300.000	500.37	501.07	495.10	0.00	0.00	1.51
1300.000	501.14	502.54	495.10	0.00	0.00	1.36
1500.000	502.52	503.27	495.10	0.00	0.00	1.55

TRIP TO HAW RIVER AT FOW

SUMMARY PRINTOUT

SECNO	CASEL	ULDR	RCH	CRDR	VLOB	VCH	VDR
226857.000	481.24	0.00	10450.00	0.00	0.00	6.25	0.00
226857.000	481.43	0.00	10700.00	0.00	0.00	6.35	0.00
226857.000	481.41	0.00	10970.00	0.00	0.00	6.40	0.00
226857.000	481.55	0.00	11496.00	0.00	0.00	6.54	0.00
226858.000	481.25	0.00	10450.00	0.00	0.00	6.24	0.00
226858.000	481.56	0.00	10760.00	0.00	0.00	6.35	0.00
226858.000	481.43	0.00	10970.00	0.00	0.00	6.35	0.00
226858.000	481.60	0.00	11496.00	0.00	0.00	6.52	0.00
226866.000	481.42	0.00	10450.00	0.00	0.00	7.99	0.00
226866.000	481.55	0.00	10700.00	0.00	0.00	8.09	0.00
226866.000	481.60	0.00	10970.00	0.00	0.00	8.14	0.00
226866.000	481.77	0.00	11496.00	0.00	0.00	8.28	0.00
226900.000	481.43	0.00	10450.00	0.00	0.00	7.46	0.00
226900.000	481.95	0.00	10780.00	0.00	0.00	7.57	0.00
226900.000	482.04	0.00	10970.00	0.00	0.00	7.62	0.00
226900.000	482.19	0.00	11496.00	0.00	0.00	7.76	0.00
270.000	487.24	0.00	500.00	0.00	0.00	3.15	0.00
270.000	487.32	0.00	510.00	0.00	0.00	5.72	0.00
270.000	487.23	0.00	1110.00	0.00	0.00	7.03	0.00
270.000	487.28	0.00	1130.00	0.00	0.00	11.15	0.00
271.000	487.21	0.00	500.00	0.00	0.00	3.18	0.00
271.000	487.53	0.00	510.00	0.00	0.00	5.72	0.00
271.000	487.28	0.00	1110.00	0.00	0.00	7.03	0.00
271.000	487.54	0.00	1130.00	0.00	0.00	10.97	0.00
410.000	487.40	0.00	500.00	0.00	0.00	6.11	0.00
410.000	487.54	0.00	510.00	0.00	0.00	8.55	0.00
410.000	487.25	0.00	1110.00	0.00	0.00	11.52	0.00
410.000	487.47	0.00	1130.00	0.00	0.00	12.29	0.00
600.000	489.49	0.00	486.40	4.00	0.00	4.57	0.00
600.000	491.87	0.00	416.69	10.27	0.78	6.65	0.76
600.000	492.34	0.00	500.00	0.00	0.00	5.16	0.00
600.000	494.40	196.70	1005.97	394.27	1.80	5.67	1.74
670.000	490.10	2.62	452.45	5.54	0.92	6.56	1.21
670.000	492.48	7.53	201.49	0.00	1.24	4.75	1.44
670.000	492.95	17.56	501.70	91.29	1.07	5.69	1.54
670.000	494.40	136.40	1246.29	344.27	1.80	16.46	1.74
710.000	491.61	0.00	486.00	0.00	0.00	5.26	0.00
710.000	492.49	0.00	500.00	0.00	0.00	11.74	0.00
710.000	493.15	0.00	1020.00	0.00	0.00	16.37	0.00
710.000	496.59	156.64	1108.09	255.97	1.51	8.50	1.96
731.000	492.28	0.00	486.00	9.00	0.00	6.05	0.00
731.000	494.00	0.00	510.00	0.00	0.00	6.97	0.00
731.000	497.83	0.00	1020.00	0.00	0.00	5.15	0.00
731.000	497.78	208.99	576.65	346.36	1.24	5.94	1.61

SENG	CASSEL	GLECH	GRCH	VEOR	VCH	VROR
780.000	492.90	0.00	459.55	0.00	6.76	6.46
780.000	495.03	14.77	706.37	0.71	6.71	1.28
780.000	496.19	111.21	795.90	0.96	5.79	1.45
780.000	498.01	432.94	919.02	1.30	5.28	1.55
900.000	494.29	0.54	429.30	0.49	7.42	0.49
900.000	495.40	61.51	700.63	1.69	7.40	1.23
900.000	496.61	116.11	818.20	2.00	7.84	1.51
900.000	498.12	209.74	1110.54	2.44	0.26	1.82
1100.000	497.05	16.45	416.59	0.82	5.88	6.68
1100.000	498.01	72.52	704.47	1.76	7.86	1.19
1100.000	498.47	118.46	848.27	2.11	8.58	1.40
1100.000	499.61	276.39	1204.92	2.76	9.91	1.81
1300.000	499.14	2.54	425.92	1.35	6.02	1.12
1300.000	500.37	27.84	745.00	1.49	10.67	1.78
1300.000	501.14	96.07	863.92	1.75	9.93	1.89
1300.000	502.32	315.95	1137.00	2.41	10.61	1.61

TRIB TO HAW RIVER AT 10W

SUMMARY - MINUTE

SECNO	CASEL	SSIA	STCHL	SICRR	ENDSI	TOPALO
226857.000	481.25	1207.62	1166.00	1503.00	1522.31	254.69
226857.000	481.35	1206.44	1167.00	1502.00	1522.51	255.59
226857.000	481.41	1206.60	1166.00	1503.00	1522.61	256.01
226857.000	481.58	1205.64	1166.00	1502.00	1522.90	257.27
226858.000	481.25	1207.56	1166.00	1503.00	1522.35	254.77
226858.000	481.36	1206.50	1166.00	1503.00	1522.55	255.62
226858.000	481.45	1204.55	1156.00	1502.00	1522.65	256.04
226858.000	481.60	1205.58	1166.00	1503.00	1522.92	257.54
226866.000	481.42	1206.53	1166.00	1503.00	1522.61	255.97
226866.000	481.53	1205.97	1166.00	1502.00	1522.80	256.84
226868.000	481.60	1205.61	1166.00	1503.00	1522.91	257.30
226868.000	481.77	1204.65	1166.00	1502.00	1523.20	258.57
226900.000	481.63	1204.47	1166.00	1502.00	1523.25	258.78
226900.000	481.95	1203.79	1166.00	1503.00	1523.45	259.66
226900.000	482.01	1203.43	1166.00	1502.00	1523.55	260.14
226900.000	482.19	1202.43	1166.00	1503.00	1523.86	261.44
270.000	407.24	1325.60	1321.00	1358.00	1352.87	27.08
270.000	407.32	1325.72	1321.00	1358.00	1352.90	27.44
270.000	407.28	1325.76	1321.00	1358.00	1352.91	27.15
270.000	407.26	1325.74	1321.00	1358.00	1352.89	27.11
271.000	407.25	1325.79	1321.00	1358.00	1352.88	27.09
271.000	407.55	1325.72	1321.00	1358.00	1352.96	27.44
271.000	407.26	1325.76	1321.00	1358.00	1352.91	27.16
271.000	407.30	1325.70	1321.00	1358.00	1352.91	27.27
410.000	407.40	1304.22	1300.00	1324.00	1324.00	16.55
410.000	407.91	1303.65	1300.00	1324.00	1324.00	15.10
410.000	408.25	1303.28	1300.00	1324.00	1324.00	15.60
410.000	408.27	1303.06	1306.00	1324.00	1324.00	21.91
600.000	409.48	1317.32	1315.00	1355.00	1352.84	16.52
600.000	409.57	1300.00	1315.00	1355.00	1370.39	76.38
600.000	409.251	1286.25	1315.00	1355.00	1360.27	124.59
600.000	409.48	1286.46	1315.00	1355.00	1350.09	113.64
670.000	450.90	1311.25	1320.00	1355.00	1357.55	19.70
670.000	452.45	1295.16	1326.00	1355.00	1357.88	45.92
670.000	452.55	1293.82	1326.00	1355.00	1378.85	70.85
670.000	452.40	1284.52	1326.00	1355.00	1391.45	150.22
710.000	491.01	1315.50	1317.00	1355.00	1355.00	15.70
710.000	492.49	1312.26	1317.00	1355.00	1355.00	16.74
710.000	493.15	1317.01	1317.00	1355.00	1355.00	17.15
710.000	496.59	1246.03	1317.00	1355.00	1392.57	144.54
731.000	492.28	1316.41	1317.00	1355.00	1355.00	16.59
731.000	494.06	1317.16	1317.00	1355.00	1355.00	17.84
731.000	494.85	1317.00	1317.00	1355.00	1355.00	18.00
731.000	497.78	1217.67	1317.00	1355.00	1398.64	186.34

SEFNO	GWSEL	881A	8TCHL	8TGNP	END81	TOR410
780-000	493.98	990.91	990.00	1010.00	1014.03	23.92
780-000	495.03	948.53	990.00	1010.00	1040.13	91.60
780-000	496.19	874.58	990.00	1010.00	1047.61	169.02
780-000	498.01	864.88	990.00	1010.00	1059.30	194.42
900-000	494.29	987.64	995.00	1015.00	1017.21	29.57
900-000	495.89	966.44	995.00	1015.00	1029.17	65.73
900-000	496.61	963.54	995.00	1015.00	1034.62	71.08
900-000	498.12	957.51	995.00	1015.00	1045.92	84.42
1100-000	497.03	969.78	995.00	1015.00	1016.29	46.51
1100-000	498.01	963.26	995.00	1015.00	1017.51	54.26
1100-000	498.47	960.16	995.00	1015.00	1018.89	57.93
1100-000	499.51	952.63	995.00	1015.00	1019.51	66.08
1300-000	499.14	1548.97	1552.00	1569.00	1570.63	21.67
1300-000	500.37	1547.28	1552.00	1569.00	1572.25	54.97
1300-000	501.14	1495.64	1552.00	1569.00	1573.26	77.61
1300-000	502.72	1440.20	1552.00	1569.00	1604.53	123.27

SECR0	XLCH	ELTRD	ELLC	ELMIN	Q	CMSL	CRINS	EG	10K*8	VCH	AREA	*01K
226857.000	0.00	0.00	0.00	473.90	10430.00	481.23	0.00	482.29	100.16	8.25	1267.85	1042.18
226857.000	0.00	0.00	0.00	473.90	10780.00	481.35	0.00	482.43	100.12	8.35	1291.23	1077.55
226857.000	0.00	0.00	0.00	473.90	10970.00	481.41	0.00	482.51	100.10	8.40	1305.97	1096.44
226857.000	0.00	0.00	0.00	473.90	11496.00	481.50	0.00	482.72	100.06	8.54	1346.34	1149.28
226858.000	1.00	0.00	0.00	473.90	10430.00	481.25	0.00	482.30	99.54	8.24	1266.20	1045.18
226858.000	1.00	0.00	0.00	473.90	10780.00	481.36	0.00	482.44	99.56	8.33	1293.59	1080.40
226858.000	1.00	0.00	0.00	473.90	10970.00	481.43	0.00	482.52	99.54	8.38	1308.33	1089.51
226858.000	1.00	0.00	0.00	473.90	11496.00	481.50	0.00	482.73	99.51	8.52	1348.72	1152.42
226868.000	10.00	0.00	0.00	473.91	10430.00	481.42	0.00	482.41	90.76	7.99	1304.71	1094.80
226868.000	10.00	0.00	0.00	473.91	10780.00	481.53	0.00	482.53	90.85	8.09	1332.45	1131.01
226868.000	10.00	0.00	0.00	473.91	10970.00	481.60	0.00	482.53	90.89	8.14	1347.39	1150.86
226868.000	10.00	0.00	0.00	473.91	11496.00	481.77	0.00	482.83	91.01	8.24	1388.31	1205.04
226900.000	32.00	0.00	0.00	473.94	10430.00	481.83	0.00	482.70	73.80	7.48	1295.07	1214.10
226900.000	32.00	0.00	0.00	473.94	10780.00	481.95	0.00	482.84	74.03	7.57	1423.81	1252.87
226900.000	32.00	0.00	0.00	473.94	10970.00	482.01	0.00	482.91	74.16	7.62	1438.29	1273.50
226900.000	32.00	0.00	0.00	473.94	11496.00	482.19	0.00	483.12	74.48	7.76	1481.67	1332.06
270.000	690.00	0.00	0.00	477.50	500.00	487.24	0.00	487.40	14.83	3.19	156.93	129.82
270.000	690.00	0.00	0.00	477.90	610.00	487.32	0.00	487.83	47.24	5.72	159.07	132.21
270.000	690.00	0.00	0.00	477.90	1110.00	487.28	0.00	488.04	71.82	7.03	157.96	130.98
270.000	690.00	0.00	0.00	477.94	1750.00	487.26	0.00	488.18	100.56	11.13	157.30	130.24
271.000	1.00	0.00	0.00	477.90	500.00	487.25	0.00	487.40	10.81	3.14	157.03	129.94
271.000	1.00	0.00	0.00	477.90	910.00	487.33	0.00	487.83	47.29	5.72	159.17	132.52
271.000	1.00	0.00	0.00	477.90	1110.00	487.28	0.00	488.05	71.80	7.03	157.99	131.00
271.000	1.00	0.00	0.00	477.90	1750.00	487.34	0.00	488.21	173.91	10.97	159.51	132.70
410.000	139.00	0.00	0.00	481.20	500.00	487.40	0.00	487.98	63.93	6.11	81.40	54.50
410.000	139.00	0.00	0.00	481.20	910.00	487.91	0.00	489.45	206.29	9.95	91.45	63.36
410.000	139.00	0.00	0.00	481.20	1110.00	488.25	0.00	490.24	254.44	13.32	98.04	69.99
410.000	139.00	0.00	0.00	481.20	1750.00	488.87	0.00	492.61	206.73	13.29	131.72	103.55
600.000	190.00	0.00	0.00	484.50	460.00	487.49	0.00	490.63	225.42	8.57	53.70	30.47
600.000	190.00	0.00	0.00	484.50	850.00	491.67	0.00	492.80	143.87	8.65	112.70	69.20
600.000	190.00	0.00	0.00	484.50	1020.00	492.51	0.00	493.43	102.32	8.12	201.34	100.84
600.000	190.00	0.00	0.00	484.50	1595.00	494.48	0.00	494.93	46.19	6.67	498.33	234.68
670.000	70.00	0.00	0.00	485.80	460.00	490.90	0.00	491.56	73.18	6.58	75.48	53.77
670.000	70.00	0.00	0.00	485.80	830.00	492.43	0.00	493.58	37.41	4.72	111.91	82.78
670.000	70.00	0.00	0.00	485.80	1020.00	492.53	0.00	494.51	97.09	9.69	146.65	103.52
670.000	70.00	0.00	0.00	485.80	1595.00	494.40	0.00	495.45	63.79	30.23	315.85	174.25
710.000	40.00	0.00	0.00	487.40	460.00	491.41	0.00	492.52	302.39	9.46	46.67	26.45
710.000	40.00	0.00	0.00	487.40	830.00	492.49	0.00	494.63	260.82	11.74	70.66	49.53
710.000	40.00	0.00	0.00	487.40	1020.00	493.15	0.00	495.56	274.69	12.47	81.83	61.54
710.000	40.00	0.00	0.00	487.40	1595.00	496.39	0.00	497.24	68.38	8.50	370.40	192.68
731.000	21.00	496.00	494.90	487.40	460.00	492.28	0.00	493.01	100.54	6.05	67.15	45.68
731.000	21.00	496.00	494.90	487.40	830.00	494.06	0.00	495.18	107.31	8.47	97.94	80.12
731.000	21.00	496.00	494.90	487.40	1020.00	494.83	0.00	496.13	109.88	9.15	111.52	97.30
731.000	21.00	496.00	494.90	487.40	1595.00	497.78	0.00	498.13	25.79	5.90	547.31	308.14

SEC40 ALCH ELTHU HLES ELMIN G CASBL CHINS EG 10KAS VGH AREA 01K

700.000	49.00	0.00	0.00	488.00	480.00	482.00	0.00	491.52	88.62	6.36	73.28	46.42
780.000	49.00	0.00	0.00	488.00	830.00	495.03	0.00	495.68	65.66	6.71	173.15	102.43
780.000	49.00	0.00	0.00	488.00	1050.00	496.19	0.00	496.60	38.08	5.79	331.10	165.29
780.000	49.00	0.00	0.00	488.00	1595.00	498.01	0.00	498.27	23.15	5.28	663.18	331.52
900.000	120.00	0.00	0.00	490.00	430.00	494.29	0.00	495.15	172.66	7.42	59.30	32.72
900.000	120.00	0.00	0.00	490.00	780.00	495.89	0.00	496.74	106.50	7.80	138.08	75.58
900.000	120.00	0.00	0.00	490.00	973.00	496.61	0.00	497.42	88.07	7.84	188.11	103.68
900.000	120.00	0.00	0.00	490.00	1496.00	498.12	0.00	498.93	69.62	8.26	309.30	179.29
1100.000	200.00	0.00	0.00	492.20	440.00	497.05	0.00	497.57	185.91	5.94	84.04	46.59
1100.000	200.00	0.00	0.00	492.20	780.00	498.01	0.00	498.88	107.01	7.86	133.36	75.40
1100.000	200.00	0.00	0.00	492.20	973.00	498.87	0.00	499.47	111.73	8.54	158.38	92.05
1100.000	200.00	0.00	0.00	492.20	1496.00	499.61	0.00	500.86	113.48	9.91	229.95	140.43
1300.000	200.00	0.00	0.00	495.10	450.00	499.14	0.00	500.13	175.86	8.02	56.30	32.43
1300.000	200.00	0.00	0.00	495.10	780.00	500.37	0.00	501.67	128.22	10.07	94.63	58.41
1300.000	200.00	0.00	0.00	495.10	973.00	501.14	0.00	502.50	159.52	9.93	149.47	82.52
1300.000	200.00	0.00	0.00	495.10	1496.00	502.32	0.00	503.67	130.81	10.61	265.20	136.11

SFCNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPRID	XLCP
226857.000	10450.00	481.63	0.00	0.06	1.25	258.69	0.00
226858.000	10780.00	481.35	0.12	0.00	1.25	258.55	0.00
226859.000	10970.00	481.41	0.06	0.00	1.41	258.01	0.00
226860.000	11496.00	481.56	0.17	0.00	1.50	257.27	0.00
226861.000	10450.00	481.25	0.00	0.01	0.60	254.77	1.00
226862.000	10780.00	481.36	0.12	0.01	0.00	255.62	1.00
226863.000	10970.00	481.45	0.06	0.01	0.00	256.69	1.00
226864.000	11496.00	481.60	0.17	0.01	0.00	257.54	1.00
226865.000	10450.00	481.42	0.00	0.17	0.00	255.97	10.00
226866.000	10780.00	481.53	0.12	0.17	0.00	256.44	10.00
226867.000	10970.00	481.60	0.06	0.17	0.00	257.50	10.00
226868.000	11496.00	481.77	0.17	0.17	0.00	253.57	16.00
226900.000	10450.00	481.45	0.00	0.41	0.00	258.78	52.00
226901.000	10780.00	481.95	0.12	0.41	0.00	259.66	52.00
226902.000	10970.00	482.01	0.06	0.41	0.00	246.14	52.00
226903.000	11496.00	482.19	0.16	0.42	0.00	243.44	52.00
270.000	500.00	487.64	0.00	5.02	0.00	27.08	690.00
270.000	910.00	487.58	0.00	5.37	0.00	27.20	690.00
270.000	1110.00	487.66	-0.04	5.26	0.00	27.15	690.00
270.000	1750.00	487.26	-0.02	5.07	0.00	27.11	690.00
271.000	500.00	487.27	0.00	0.00	0.00	27.03	1.00
271.000	910.00	487.33	0.08	0.01	0.00	27.24	1.00
271.000	1110.00	487.28	0.04	0.01	0.00	27.16	1.00
271.000	1750.00	487.34	0.06	0.08	0.00	27.27	1.00
410.000	500.00	487.51	0.00	0.50	0.00	18.55	135.00
410.000	910.00	487.55	0.00	0.50	0.00	19.10	135.00
410.000	1110.00	487.55	0.00	0.50	0.00	19.60	135.00
410.000	1750.00	487.57	0.00	0.55	0.00	21.30	135.00
600.000	500.00	485.35	0.00	2.05	0.00	16.52	190.00
600.000	910.00	491.67	2.18	3.76	0.00	74.38	190.00
600.000	1020.00	482.51	0.35	0.26	0.00	124.59	190.00
600.000	1595.00	496.00	1.97	4.61	0.00	175.04	190.00
670.000	500.00	490.50	0.00	1.01	0.00	19.70	70.00
670.000	910.00	492.45	1.55	6.77	0.00	42.52	70.00
670.000	1020.00	492.95	0.50	0.42	0.00	90.43	70.00
670.000	1595.00	493.50	1.47	6.05	0.00	130.22	75.00
710.000	500.00	491.01	0.00	0.11	0.00	15.70	40.00
710.000	910.00	491.69	1.00	0.05	0.00	16.74	40.00
710.000	1020.00	493.15	0.00	0.21	0.00	17.19	40.00
710.000	1595.00	496.39	3.25	1.99	0.00	144.54	40.00
751.000	400.00	492.67	0.00	1.26	0.00	16.59	21.00
751.000	850.00	494.06	1.72	1.58	0.00	17.80	21.00
751.000	1020.00	494.85	0.76	1.68	0.00	18.00	21.00
751.000	1595.00	497.78	2.96	1.39	0.00	140.34	21.00

SECD	CHSEL	DIFWSP	DIFWXS	DIFKAS	TORPID	XLEGN
780.000	460.00	492.50	0.00	0.00	23.92	45.00
780.000	850.00	495.03	2.13	0.97	91.60	49.00
780.000	1020.00	496.19	1.16	1.36	169.02	45.00
780.000	1595.00	498.01	1.82	0.25	194.42	49.00
900.000	450.00	494.29	0.00	1.40	29.57	120.00
900.000	740.00	495.09	1.59	0.46	65.73	120.00
900.000	973.00	496.61	0.72	0.42	71.08	120.00
900.000	1496.00	497.12	1.51	0.11	88.42	120.00
1100.000	450.00	497.04	0.00	2.74	46.51	200.00
1100.000	780.00	498.01	0.98	2.12	54.26	200.00
1100.000	973.00	498.47	0.48	1.86	57.93	200.00
1100.000	1496.00	499.61	1.14	1.48	66.88	200.00
1300.000	450.00	499.14	0.00	2.11	21.67	200.00
1300.000	740.00	500.37	1.22	2.39	54.97	200.00
1300.000	973.00	501.14	0.77	2.67	77.61	200.00
1300.000	1496.00	502.42	1.10	2.71	123.27	200.00

SUMMARY OF ERRORS

CAUTION	SECD=	710.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECD=	710.000	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION	SECD=	710.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECD=	710.000	PROFILE=	2	MINIMUM SPECIFIC ENERGY
CAUTION	SECD=	710.000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECD=	710.000	PROFILE=	3	MINIMUM SPECIFIC ENERGY
CAUTION	SECD=	710.000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECD=	710.000	PROFILE=	4	PROBABLE HIGHER SPECIFIC ENERGY
CAUTION	SECD=	710.000	PROFILE=	4	20 TRIALS ATTEMPTED TO BALANCE CASE
CAUTION	SECD=	1500.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECD=	1500.000	PROFILE=	2	MINIMUM SPECIFIC ENERGY
CAUTION	SECD=	1500.000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECD=	1500.000	PROFILE=	3	MINIMUM SPECIFIC ENERGY
CAUTION	SECD=	1500.000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECD=	1500.000	PROFILE=	4	MINIMUM SPECIFIC ENERGY

FLOODWAY DATA, TRIBUTARY TO HAN RIVER AT TOM
 PROFILE NO. 2

STATION	WIDTH (FT)	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
		SECTION AREA	AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
226857.000	236.	1303.	6.4	481.4	481.4	0.0	
226858.000	236.	1305.	6.4	481.4	481.4	0.0	
226868.000	237.	1345.	8.2	481.6	481.6	0.0	
226900.000	240.	1438.	7.6	482.0	482.0	0.0	
270.000	27.	158.	7.0	487.3	487.3	0.0	
271.000	27.	158.	7.0	487.3	487.3	0.0	
410.000	80.	98.	11.3	488.3	488.3	0.0	
600.000	80.	184.	5.7	492.5	492.5	0.0	
670.000	68.	144.	7.1	492.9	492.9	0.0	
710.000	17.	82.	12.5	493.1	493.1	0.0	
731.000	18.	112.	9.1	494.8	494.8	0.0	
780.000	60.	225.	4.5	496.2	496.2	0.0	
900.000	60.	185.	5.3	496.7	496.6	0.1	
1100.000	56.	160.	6.1	498.5	498.5	0.0	
1300.000	70.	145.	6.7	501.1	501.1	0.0	

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR-CORR - 01762
 MODIFICATION - 50,51,52,53

T1 FPP-FIA INS STUDY

T2 500 YEAR

T3 TRIB TO HAW RIVER AT TOWP OF HAW RIVER

J1	ICHECK	IMO	RIAV	IDIR	SIRT	METRIC	HVINS	G	WSEL	FO
	9.	10.	0.	0.	0.010000	0.00	0.0	0.	460.000	0.000
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIR	ITRACE
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01702
 MODIFICATION - 50,51,52,53

T1 FPM-FIA INS STUDY
 T2 100-YR FLOODWAY
 T3 TRIB TO HAW RIVER AT TOWN OF HAW RIVER

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
0.	2.	0.	0.	0.000000	0.00	0.0	0.0	0.	.481.400	0.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	15.000

1988 79 22

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

C TRIB TO HAW RIVER AT HAW RIVER
T1 FPM-FAA INS-STUDY
T2 100 YEAR
T3 TRIB TO HAW RIVER AT TOWN-OF HAW RIVER

J1 I-CHECK INQ NINW IOIR SRII METRIC HVINB 8 #SEL F0
0. 9. 0. 0. 0.000000 0.00 0.0 481.400 0.000

J2 NPROF I-PLT PHEV6 XSEGV XSECH FN ALLDC IBK GHNEM ITRAGE
1.000 0.000 1.000 0.000 0.000 0.000 0.000 0.000 15.000

J3 VARIABLE-CODES-FOR-SUMMARY-PRINTOUT

38.000 1.000 3.000 42.000 41.000 5.000 43.000 36.000 1.000

53.000 21.000 22.000 54.000 4.000 0.000 200.000 0.000 0.000

GT 9.000 10970.000 10970.000 10970.000 10970.000 0.000 10430.000 10720.000 10970.000 11496.000
NC 0.120 0.120 0.055 0.200 0.400 0.000 0.000 0.000 0.000 0.000

X1 226857.000 29.000 1166.000 1583.000 0.000 0.000 0.000 0.000 0.000 0.000
GR 525.000 1000.000 511.600 1116.000 504.200 1166.000 502.000 1200.000 499.500 1232.000
GR 496.400 1227.000 490.100 1276.000 482.400 1281.000 478.700 1302.000 475.100 1314.000
GR 474.200 1339.000 474.100 1361.000 475.600 1381.000 476.700 1400.000 476.500 1421.000
GR 475.000 1437.000 473.900 1462.000 474.500 1487.000 476.400 1504.000 478.100 1517.000
GR 484.000 1527.000 485.900 1556.000 491.200 1583.000 492.000 1700.000 494.800 1840.000
GR 510.700 1682.000 511.000 1980.000 515.000 2000.000 520.000 2070.000 0.000 0.000

X1-226858.000 0.000 0.000 0.000 1.000 1.000 1.000 0.000 0.000 0.000

X1-226868.000 0.000 0.000 0.000 10.000 10.000 10.000 0.000 0.010 0.000

X1-226900.000 0.000 0.000 0.000 32.000 32.000 32.000 0.000 0.000 0.000
NC 0.110 0.110 0.050 0.000 0.000 0.000 0.000 0.000 0.000 0.000
GT 9.000 1110.000 1110.000 1110.000 1110.000 0.000 500.000 910.000 1110.000 1750.000
ET 0.000 5.310 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

270**AHT-1

X1 270.000 22.000 1321.000 1350.000 690.000 690.000 690.000 0.000 0.000 0.000
X3 10.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
GR 500.000 1000.000 495.000 1100.000 491.800 1200.000 491.400 1200.000 492.200 1321.000
GR 482.900 1330.000 479.700 1338.000 477.900 1338.000 478.900 1343.000 483.500 1349.000
GR 492.200 1358.000 492.100 1364.000 488.400 1400.000 488.700 1400.000 489.600 1500.000
GR 489.800 1600.000 488.500 1700.000 489.200 1800.000 490.700 1900.000 492.000 2000.000
GR 496.000 2047.000 505.600 2060.000 0.000 0.000 0.000 0.000 0.000 0.000

X1	271,000	0,000	0,000	1,000	1,000	0,000	0,000	0,000	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	0,000	0,000	0,000	0,000	0,000	0,000

410**ANT-2

X1	410,000	21,000	130,000	1324,000	139,000	139,000	139,000	139,000	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	0,000	0,000	0,000	0,000	0,000	0,000
GR	500,000	1000,000	495,000	1100,000	491,500	1200,000	1200,000	491,200	1300,000	483,100	1309,000	1324,000	1700,000
GR	481,300	1314,000	481,300	1317,000	481,300	1320,000	1320,000	481,000	1321,000	491,000	1324,000	1324,000	1700,000
GR	492,700	1598,000	486,900	1400,000	488,100	1500,000	1500,000	488,000	1600,000	490,100	1700,000	1700,000	2055,000
GR	492,300	1600,000	494,100	1900,000	495,400	2000,000	2000,000	495,100	2045,000	507,900	2055,000	2055,000	0,000
GR	508,900	2188,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	1595,000
ET	9,000	1020,000	1020,000	1020,000	1020,000	1020,000	1020,000	460,000	830,000	1020,000	1595,000	1595,000	0,000
ET	0,000	3,100	1300,000	1380,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

X1	600,000	9,000	1315,000	1335,000	190,000	190,000	190,000	190,000	0,000	0,000	0,000	0,000	0,000
GR	505,000	1160,000	493,000	1270,000	491,000	1315,000	1315,000	484,500	1325,000	484,500	1330,000	1330,000	0,000
GR	491,000	1335,000	492,100	1400,000	500,000	1500,000	1500,000	505,000	1530,000	0,000	0,000	0,000	0,000
ET	0,000	3,110	1302,000	1370,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

670**ANT-3

X1	670,000	16,000	1320,000	1335,000	70,000	70,000	70,000	70,000	0,000	0,000	0,000	0,000	0,000
GR	514,800	1000,000	507,300	1100,000	497,000	1200,000	1200,000	492,400	1300,000	492,700	1317,000	1317,000	0,000
GR	488,400	1320,000	486,200	1322,000	495,800	1327,000	1327,000	486,000	1332,000	487,800	1335,000	1335,000	0,000
GR	492,000	1339,000	493,100	1386,000	496,700	1400,000	1400,000	497,900	1423,000	504,500	1500,000	1500,000	0,000
GR	509,400	1548,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
GR	0,000	1,400	2,500	0,000	15,000	0,000	0,000	126,000	0,187	487,500	487,500	487,500	0,000

710**ANT-4 LANG ST

X1	710,000	16,000	1317,000	1335,000	40,000	40,000	40,000	40,000	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	0,000	0,000	0,000	0,000	0,000	0,000
GR	514,500	1000,000	507,300	1100,000	497,000	1200,000	1200,000	492,400	1300,000	492,700	1317,000	1317,000	0,000
GR	488,400	1320,000	486,200	1322,000	495,800	1327,000	1327,000	486,000	1332,000	487,800	1335,000	1335,000	0,000
GR	492,000	1339,000	493,100	1386,000	496,700	1400,000	1400,000	497,900	1423,000	504,500	1500,000	1500,000	0,000
GR	509,400	1548,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
GR	0,000	1,400	2,500	0,000	15,000	0,000	0,000	126,000	0,187	487,500	487,500	487,500	0,000

X1	731,000	0,000	0,000	0,000	21,000	21,000	21,000	21,000	0,000	0,000	0,000	0,000	0,000
X2	0,000	0,000	1,000	494,900	496,000	0,000	0,000	0,000	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	0,000	0,000	0,000	0,000	0,000	0,000
BT	2,000	1000,000	516,500	0,000	1100,000	509,000	509,000	0,000	1200,000	499,700	0,000	0,000	0,000
BT	1300,000	496,000	0,000	1317,000	496,200	494,500	494,500	1335,000	496,200	494,900	1500,000	1500,000	0,000
BT	506,500	0,000	1550,000	514,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
BT	0,000	0,000	500,000	1149,000	0,000	0,000	0,000	0,000	0,000	1,100	0,000	0,000	0,000
ET	0,000	3,100	570,000	1030,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

780** TOPO SECTION

X1	700,000	11,000	690,000	1010,000	45,000	45,000	45,000	45,000	0,000	0,000	0,000	0,000	0,000
GR	520,000	600,000	510,000	760,000	500,000	850,000	850,000	496,000	860,000	495,000	950,000	950,000	0,000
GR	494,000	990,000	488,000	995,000	488,000	1005,000	1005,000	492,500	1010,000	495,000	1040,000	1040,000	0,000
GR	520,000	1200,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
GR	9,000	473,000	973,000	973,000	973,000	0,000	0,000	430,000	780,000	973,000	1486,000	1486,000	0,000
ET	0,000	3,100	570,000	1030,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

X1	900,000	9,000	995,000	1015,000	120,000	120,000	120,000	120,000	0,000	0,000	0,000	0,000	0,000
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GR	505.000	930.000	500.000	950.000	495.000	970.000	494.000	955.000	490.000	1002.000
GR	490.000	1008.000	494.000	1015.000	500.000	1060.000	505.000	1160.000	6.000	0.000
ET	0.000	3.100	960.000	1020.000	0.000	0.000	0.000	0.000	0.000	0.000

1100*** TOPO-SECTION UPPER-STUDY-LIMIT-0960-MI

X1	1100.000	16.000	995.000	1015.000	200.000	200.000	200.000	0.000	0.000	0.000
GK	535.000	520.000	530.000	600.000	520.000	700.000	510.000	880.000	505.000	1920.000
GR	500.000	950.000	497.000	970.000	496.000	995.000	492.200	1005.000	492.200	1008.000
GR	496.000	1015.000	500.000	1020.000	505.000	1080.000	510.000	1105.000	525.000	1160.000
GR	535.000	1240.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E1	0.000	3.100	1503.000	1573.000	0.000	0.000	0.000	0.000	0.000	0.000

1300***ANTS

X1	1300.000	19.000	1552.000	1569.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	540.700	1000.000	537.400	1100.000	531.300	1200.000	524.500	1300.000	515.500	1393.000
GR	508.000	1396.000	508.500	1400.000	500.800	1500.000	495.600	1548.000	497.700	1552.000
GR	495.800	1557.000	495.100	1562.000	495.900	1567.000	497.900	1569.000	501.700	1574.000
GR	501.900	1600.000	513.700	1700.000	523.400	1800.000	527.200	1866.000	0.000	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

 HEC2 RELEASE DATED NOV. 76 UPDATED AUG 77
 ERROR-CORR - 01702
 MODIFICATION - 50,51,52,53

T1 FPM-FIA INS STUDY
 T2 100-YEAR
 T3 TRIS TO HAM RIVER AT TOWN OF HAM RIVER

J1	ICHECK	TNR	MAV	IDIR	STRI	METRIC	HVIAS	G.	WSEL	FQ
0.	9.	0.	0.	0.010000	0.00	0.0	0.	480.000	0.000	0.000
J2	NP/OF	IPLUT	PRFVS	XSECV	XSECH	FH	ALLOD	IBW	CHNIM	ITRACE
3.000	0.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	15.000

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

T1 FPR-FIA INS STUDY
 T2 50-YEAR
 T3 TRIB TO HAW RIVER AT ICKN OF HAW RIVER

J1	ICHECK	INO	NINV	IDIR	SIRI	PETRIC	BVINS	C	WSEL	FQ
0.	0.	0.	0.	0.010000	0.00	0.00	0.0	0.	480.000	0.000

J2	NPROF	IPLOT	PREVS	XSECV	XSLCH	FN	ALDLC	IBW	CHNIM	ITRACE
2.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

1987

 HEC2 RELEASE DATED NOV. 76. UPDATED AUG. 77

 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

C TRIP TO HAW RIVER AT HAW RIVER
 11 FROM THE STUDY
 12 10 YEAR
 13 TRIP TO HAW RIVER AT HAW RIVER

DI INTER 149 0.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 1000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

13 VARIATION CORRECT- FOR SUMMARY CALCULOT

14,000 15,000 55,000 26,000 56,000 0.000 55,000 1,000 53,000 21,000
 22,000 54,000 0.000 0.000 150,000 201,000 0.000 0.000 0.000 0.000
 01 0.000 10970.000 10970.000 10970.000 10970.000 10970.000 10970.000 10970.000 10970.000
 NC 0.120 0.120 0.055 0.200 0.400 0.400 0.200 0.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

XI 22657.000 29,000 1166,000 1563,000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 GR 525,000 1000,000 511,000 1116,000 594,200 1166,000 502,000 1260,000 499,500 1212,000
 GR 098,000 1227,000 492,100 1220,000 652,400 1261,000 478,700 1342,000 475,100 1314,000
 GR 474,200 1339,000 474,100 1501,000 473,500 1381,000 478,700 1400,000 476,500 1421,000
 GR 475,000 1457,000 473,500 1462,000 474,500 1467,000 477,000 1504,000 478,100 1517,000
 GR 484,000 1527,000 485,900 1536,000 491,200 1583,000 492,000 1700,000 494,800 1800,000
 GR 510,700 1622,000 511,000 1650,000 512,000 2000,000 520,000 2070,000 520,000 6,000

XI 226058.000 0.000 0.000 0.000 1.000 1.000 1.000 1.000 0.000 6.000 6.000
 XI 224448.000 0.000 0.000 0.000 1.000 1.000 1.000 1.000 0.000 6.000 6.000

XI 226900.000 0.000 0.000 0.000 52,000 52,000 52,000 52,000 0.000 0.000 0.000
 XI 226900.000 0.110 0.110 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

XI 270.000 22,000 1321,000 1350,000 690,000 690,000 690,000 690,000 0.000 0.000 0.000
 X5 10,000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 GR 500,000 1000,000 495,000 1100,000 491,400 1200,000 491,400 1200,000 492,200 1321,000
 GR 462,900 1330,000 479,700 1333,000 477,900 1338,000 478,700 1343,000 483,500 1349,000
 GR 492,200 1350,000 492,100 1360,000 488,000 1365,000 488,700 1400,000 489,600 1500,000

HAIR TRIM

GR	488.800	1600.000	488.500	1700.000	489.200	1800.000	490.700	1900.000	492.000	2000.000
GR	496.000	2047.000	505.500	2060.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	271.000	0.000	0.000	1.000	1.000	1.000	1.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

410**A01-2

X1	410.000	21.000	1300.000	1324.000	159.000	139.000	139.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	500.000	1000.000	495.000	1100.000	491.500	1200.000	491.200	1300.000	482.100	1309.000
GR	481.500	1314.000	481.200	1317.000	441.300	1320.000	483.000	1321.000	481.400	1324.000
GR	492.700	1390.000	486.900	1400.000	488.100	1500.000	488.000	1600.000	490.100	1700.000
GR	492.300	1400.000	494.100	1400.000	495.400	2000.000	495.100	2045.000	507.900	2058.000
GR	506.900	2188.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	5.000	1020.000	1020.000	1020.000	1020.000	0.000	446.000	439.000	1626.000	1595.000

X1	600.000	5.000	1315.000	1335.000	190.000	190.000	190.000	0.000	0.000	0.000
GR	505.000	1140.000	493.000	1270.000	491.000	1315.000	484.500	1325.000	484.500	1330.000
GR	491.000	1335.000	492.100	1400.000	500.000	1500.000	505.000	1530.000	0.000	0.000

670**A01-3

X1	670.000	10.000	1320.000	1355.000	70.000	70.000	70.000	0.000	0.000	0.000
GR	510.500	1000.000	507.500	1100.000	497.000	1200.000	492.400	1300.000	492.700	1317.000
GR	488.000	1320.000	486.000	1322.000	485.000	1327.000	485.000	1332.000	487.000	1335.000
GR	492.000	1334.000	493.100	1366.000	496.700	1400.000	497.900	1423.000	504.500	1500.000
GR	506.500	1548.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

710**A01-4 LANG 51

X1	710.000	16.000	1337.000	1355.000	40.000	40.000	40.000	0.000	1.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	514.500	1000.000	507.500	1100.000	497.000	1200.000	492.400	1300.000	492.700	1317.000
GR	488.000	1320.000	486.000	1322.000	485.000	1327.000	485.000	1332.000	487.000	1335.000
GR	492.000	1334.000	493.100	1366.000	496.700	1400.000	497.900	1423.000	504.500	1500.000
GR	506.500	1548.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	0.000	1.000	0.000	0.000	15.000	0.000	121.000	0.187	487.500	487.500

X1	731.000	0.000	0.000	0.000	21.000	21.000	21.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	514.500	1000.000	507.500	1100.000	497.000	1200.000	492.400	1300.000	492.700	1317.000
GR	488.000	1320.000	486.000	1322.000	485.000	1327.000	485.000	1332.000	487.000	1335.000
GR	492.000	1334.000	493.100	1366.000	496.700	1400.000	497.900	1423.000	504.500	1500.000
GR	506.500	1548.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	0.000	1.000	0.000	0.000	15.000	0.000	121.000	0.187	487.500	487.500

X1	744.000	11.000	1314.000	1314.000	49.000	49.000	49.000	0.000	0.000	0.000
GR	520.000	600.000	510.000	700.000	500.000	850.000	490.000	850.000	495.000	950.000
GR	488.000	950.000	482.000	995.000	488.000	1005.000	482.500	1010.000	495.000	1040.000
GR	520.000	1200.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	9.000	975.000	975.000	975.000	975.000	0.000	434.000	720.000	574.000	1495.000

X1	900.000	9.000	995.000	1015.000	120.000	120.000	120.000	0.000	0.000	0.000
GR	505.000	930.000	500.000	950.000	495.000	970.000	490.000	995.000	490.000	1002.000
GR	490.000	1008.000	494.000	1015.000	500.000	1060.000	505.000	1160.000	0.000	0.000

1100*** TOPG SECTION UPPER STUMP LIMIT 8989 MI

GR	1100.000	16.000	995.000	1015.000	200.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	535.000	520.000	453.000	600.000	520.000	700.000	510.000	880.000	505.000	420.000	420.000
GR	500.000	950.000	497.000	970.000	496.000	995.000	492.000	1002.000	492.000	1008.000	1008.000
GR	496.000	1015.000	500.000	1020.000	505.000	1000.000	510.000	1105.000	525.000	1160.000	1160.000
GR	535.000	1240.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

1300***ANTS

XI	1300.000	19.000	1552.000	1569.000	200.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	540.700	1000.000	537.000	1100.000	531.300	1200.000	524.500	1300.000	515.500	1393.000	1393.000
GR	509.000	1396.000	508.500	1400.000	500.800	1500.000	494.600	1548.000	497.700	1552.000	1552.000
GR	495.800	1551.000	495.000	1562.000	495.000	1567.000	491.000	1569.000	501.000	1574.000	1574.000
GR	501.900	1600.000	511.700	1700.000	523.400	1800.000	527.200	1866.000	0.000	0.000	0.000
GR	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000