\* MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM ORIGINAL SCHEME RAPID DRAWDOWN WL.155.5m 1:2.3 & 1:1.8 <MO-02>

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DOME N.T. I SAFETY M.O.M.E.N. TANCE SLIDING I FACTOR RESISTANCE 18225891. I 3.229 21653.   0.3056504. I 4.563 47856.   0.3056996. I 4.563 47856.   0.2577403. I 5.277 66263.   0.2577403. I 5.277 66263.   0.257746. I 1.973 54302.   0.2557112. I 2.435 25387.   0.25618429. I 1.554 31997.   0.26618429. I 1.554 31997.   0.20531568. I 2.252 114230.   0.255934946. I 1.529 89357.   0.24968291. I 1.529 89357.   0.24968291. I 1.60 127762.   0.24968291. I 1.694 39908.   0.556115445. I 1.425 1.29813.   0.55798388. I 1.389 74989.   0.55798246. I 1.555 191165.   0.540112877. I 1.525 191165.   0.54182416. I 1.525 191165.   0.5440112877. I 1.525 191165.   0.5440112877. I 1.525 191165.   0.5440112877. I 1.525 191165.   0.5440112877. I 1.555 191165.   0.5450112877. I 1.555 191165.   0.5460112877. I 1.555 191165.   0.5460112877. I 1.555 191165.   0.5460112877. I 1.555 191165.   0.5470112877. I 1.555 191165.   0.5480112877. I 1.555 191165.   0.5480112877. I 1.555 191165.   0.5490112877. I 1.555 191165.   0.5400112877. I 1.555 191165.   0.5400	H	(ITS	PPE CIRCLE	`	H	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Į.		     H		DYNAMIC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	ER	COORD	NATE	RADIUS	н:	AFET	E O E	E+ .	H	田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	MOME	
7         I         20.000         60.000         71.000         I         4.271         21822         -5891         I         37.15         3010           26         I         20.000         80.000         91.000         I         5.144         30305         -5891         I         37.15         3010           26         I         20.000         100.000         111.000         I         6.875         -6996         I         4.156         38.005           32         I         20.000         140.000         151.000         I         7.734         55.27         -6996         I         4.056           44         I         40.000         60.000         91.000         I         2.221         1539         -636         I         4.934         5693           51         I         40.000         180.000         110.000         I         2.221         1539         -7146         I         1.934         5693           51         I         40.000         180.000         110.000         I         2.221         1539         -7146         I         1.934         5693           51         I         40.000         110.000         I	 	•	1	1 1 1 1 1	# # # H	ACTO	ESISTAN	LHDHL	! ! H F	ACTO	SIST	STIDING
14         20.000         80.000         91.000         1.044         3035.         -5891.         1         3715         3817           20         1         20.000         10.000         111.000         1         6.011         3995.         -6594.         1         4.156         4.384           20         1         10.000         131.000         1         6.017         40.995.         -6594.         1         4.563         4.94           32         1         20.000         140.000         151.000         1         7.734         5727         -746.         1         5599           51         4         0.000         80.000         11.000         1         2.234         5511.         -25364         1         1.973         5699           51         4         0.000         80.000         11.000         1         2.234         5511.         -25364         1         1.973         5699           51         4         0.000         10.000         11.000         1         2.234         5511.         1.584         1.176         1.889           52         1         4         0.000         11.000         1         2.221 <t< td=""><td>7</td><td>00.0</td><td>00:0</td><td>1.00</td><td>1 1-1</td><td>.27</td><td>182</td><td>510</td><td>₹₩</td><td>.22</td><td>165</td><td>70</td></t<>	7	00.0	00:0	1.00	1 1-1	.27	182	510	₹₩	.22	165	70
20         I         20.000         100.000         111.000         I         6.011         39055         -6504.         I         4.158         3887           26         I         20.000         150.000         I         7.734         5734         -6996.         I         4.984         5696.         I         4.984         1         4.984         I         4.984         I         4.986.         I         1.973         5676         I         1.973         1.176         I         1.984         I         4.986         I         1.974         I         1.974         I         1.974         I         I         I         I         I </td <td>4</td> <td>0.00</td> <td>00.0</td> <td>1.00</td> <td>н</td> <td>.14</td> <td>030</td> <td>589</td> <td>H</td> <td>.71</td> <td>010</td> <td></td>	4	0.00	00.0	1.00	н	.14	030	589	H	.71	010	
26         1         20.000         120.000         131.000         6.875         4809         -6996         1         4.563         4786         5257         -7443         67257         -7443         67257         -7463         1         4.934         5699           44         I         20.000         140.000         151.000         I         7.34         57257         -7463         I         4.934         5699           44         I         40.000         160.000         110.000         I         2.334         55101         -23604         I         1.973         5430           51         I         40.000         180.000         110.000         I         2.221         11339         -5366         I         1.788         1175           51         I         40.000         180.000         151.000         I         2.937         25675         I         2.435         2588           72         I         40.000         151.000         I         2.937         25675         I         2.435         2588           72         I         40.000         151.000         I         1.773         25893         1.5493         1.5493	0	0.00	00.00	11.00	Н	.01	909	650	н	.15	887	-9349.
32         I         20.000         140.000         151.000         I         7.734         57257         -746.         I         5.277         6628           38         I         20.000         160.000         II.000         I         8.590         66535         -746.         I         5.277         6626           51         40.000         80.000         11.000         I         2.221         11939         -5876         I         1.88         1175           58         I         40.000         120.000         11.000         I         2.622         18505         -7112         I         2.163         1826           55         I         40.000         120.000         151.000         I         2.697         3.397         -7112         I         2.163         1826           70         I         40.000         151.000         I         2.697         3.397         -41272         -10870         I         2.253         4090           70         I         40.000         101.000         I         1.878         9742         -10870         I         1.699         1.738         9559         9559         9559         9569         9569	9	0.00	20.00	31.00	н	87	809	669	Н	.56	785	48
38         I         20.000         160.000         171.000         I         8.590         66535         -7746         I         5.277         6626           44         I         40.000         60.000         91.000         I         2.334         15301         -5364         I         1.973         5430           58         I         40.000         100.000         111.000         I         2.602         18505         -7112         I         1.878         1175         I         2.675         -8566         I         2.163         253         253         1.826         I         2.639         2.587         -8566         I         2.163         1.826         2.583         4090         1.826         I         2.699         2.5675         -8566         I         2.639         2.587         -8566         I         2.639         2.587         4090         1.600         1.000         1.1000         I         1.878         4090         1.600         1.000         1.1000         I         1.638         4090         1.638         4090         1.638         4090         1.638         4090         1.638         4090         1.600         1.000         1.1000         I <t< td=""><td>7</td><td>0.00</td><td>40.00</td><td>51.00</td><td>H</td><td>73</td><td>725</td><td>740</td><td>H</td><td>. 93</td><td>669</td><td>-11552.</td></t<>	7	0.00	40.00	51.00	H	73	725	740	H	. 93	669	-11552.
44         1         40.000         60.000         81.000         1         2.334         55101         -23604         1         1.973         5430           51         1         40.000         80.000         11.000         1         2.221         11939         -5376         1         1.888         1175           51         1         40.000         100.000         131.000         1         2.997         25675         -8566         1         2.435         2538           72         1         40.000         140.000         151.000         1         2.997         25675         -8566         1         2.435         2538           72         1         40.000         101.000         1         1.773         32666         -18429         1         2.699         3296           70         1         60.000         101.000         1         1.773         32666         -18429         1         1.638         9558           84         1         60.000         101.000         1         1.773         32666         -18429         1         1.538         4090           96         1         60.000         101.000         1         1.7	80	0.00	60.00	71.00	н	.59	653	774	ы	. 27	626	255
51         40,000         80,000         91,000         I         2.221         11939         -5376         I         1.888         1175           58         I         40,000         10,000         I         2.602         18505         -7112         I         2.163         1826           55         I         40,000         121,000         I         2.602         18505         -7112         I         2.163         1826           79         I         40,000         121,000         I         3.397         41272         -10870         I         2.699         3256           84         I         60,000         91,000         I         1.773         3266         -18429         I         1.638         9559           96         I         60,000         101,000         I         1.773         3266         -18429         I         1.638         9559           96         I         60,000         121,000         I         2.001         2.1776         1.538         1.730         1.940           96         I         60,000         121,000         I         2.001         2.2573         I         1.733         3.194 <tr< td=""><td>4</td><td>00.0</td><td>60.00</td><td>81.00</td><td>ы</td><td>,33</td><td>510</td><td>2360</td><td>н</td><td>.97</td><td>430</td><td>75</td></tr<>	4	00.0	60.00	81.00	ы	,33	510	2360	н	.97	430	75
58         1         40.000         100.000         111.000         1         2.602         18505         -7112         1         2.435         2538           65         1         40.000         120.000         151.000         1         2.997         25675         -8566         1         2.435         2538           79         1         40.000         151.000         1         1.878         97452         -9566         1         2.953         4090           84         1         60.000         60.000         91.000         1         1.878         97452         -91893         1         1.638         9559           90         1         60.000         91.000         1         1.773         3266         -18429         1         1.638         9559           90         1         60.000         141.000         1         2.252         2.001         -31974         1         1.53         1423         1423         1423         1423         1423         1423         1423         1423         1423         1443         1         1.600         11.000         1         1.73         1.600         11.000         1         1.73         1.600 <td< td=""><td>H</td><td>0.00</td><td>80.00</td><td>1.00</td><td>ы</td><td>.22</td><td>193</td><td>537</td><td>н</td><td>88</td><td>175</td><td>Ø</td></td<>	H	0.00	80.00	1.00	ы	.22	193	537	н	88	175	Ø
65 I 40.000 120.000 131.000 I 2.997 256758566. I 2.435 2538   72 I 40.000 140.000 151.000 I 3.397 333019803. I 2.699 3296   73 I 40.000 160.000 171.000 I 3.797 4127210870. I 2.953 4090   84 I 60.000 60.000 101.000 I 1.773 3266618429. I 1.554 3199   96 I 60.000 120.000 121.000 I 2.001 5137625673. I 1.534 3159   97 I 60.000 120.000 141.000 I 2.252 7200531974. I 1.919 7088   97 E 60.000 140.000 161.000 I 2.485 9336937568. I 1.919 7088   97 E 60.000 101.000 I 2.722 1157242518. I 1.919 7088   97 E 72 E	00	00.0	00.00	11.00	н	. 60	850	711	н	.16	826	
72         1         40.000         140.000         151.000         3.397         33301         -9803         1         2.659         3296           79         1         40.000         160.000         171.000         1         1.878         97452         -10870         1         2.953         4090           84         1         60.000         91.000         1         1.773         32666         -18429         1         1.638         9559           90         1         60.000         121.000         1         2.025         726673         1         1.554         3199           90         1         60.000         121.000         1         2.252         726673         1         1.730         5047           90         1         60.000         140.000         1         2.252         72667         1.730         5045           14         60.000         140.000         1         2.722         115722         -42518         1         2.66         14447         1         1.606         14074           18         1         60.000         101.000         1         1.705         143968         -84447         1         1.425	2	0.00	20.00	31.00	⊬(	ο. Ο	567	856	н	. 43	538	4
79         1         40.000         160.000         171.000         1         3.797         41272         -10870         I         638         4090           84         I         60.000         91.000         I         1.878         97452         -51897         I         1.638         9559           90         I         60.000         91.000         I         1.773         32666         -51897         I         1.638         9559           90         I         60.000         101.000         I         2.001         51376         -25673         I         1.53         5047           95         I         60.000         140.000         I         2.022         72065         -21943         I         1.53         925           14         I         60.000         140.000         I         2.722         115722         -42518         I         1.919         708           18         I         60.000         101.000         I         1.05         1.433         1.453         1.443         1.453         1.473           18         I         I         I         I         I         I         I         I         I	2	0.00	40.00	51.00	ы	9	330	980	H	. 69	296	
84         I         60.000         60.000         91.000         I         1.878         97452         -51897         I         1.638         9559           90         I         60.000         80.000         101.000         I         1.73         3266         -18429         I         1.554         3199           96         I         60.000         100.000         121.000         I         2.052         7205         -25673         I         1.530         5047           92         I         60.000         141.000         I         2.252         7205         -31974         I         1.919         708           10         60.000         140.000         181.000         I         2.485         93369         -37568         I         1.919         708           11         60.000         160.000         111.000         I         1.705         143968         -42518         I         1.506         14074           23         I         80.000         151.000         I         1.736         1.25219         I         1.506         1.776         1.776         1.776         1.776         1.776         1.776         1.776         1.776         1.	Q)	0.00	60.00	71.00	. Н	7.9	127	1087	Н	.95	060	-13853.
90 I 60.000 80.000 101.000 I 1.773 3266618429. I 1.554 3199 96 I 60.000 120.000 121.000 I 2.055 720 -25673. I 1.730 5047 02 I 60.000 120.000 141.000 I 2.252 7200531974. I 1.919 7088 08 I 60.000 140.000 161.000 I 2.485 9336937568. I 2.086 9205 14 I 60.000 140.000 1 11.000 I 1.705 1439684447. I 1.506 14074 23 I 80.000 120.000 111.000 I 1.705 14396842518. I 1.506 14074 23 I 80.000 140.000 131.000 I 1.738 9130452519. I 1.506 12776 38 I 80.000 140.000 171.000 I 1.956 4065320787. I 1.694 3990 47 I 100.000 100.000 111.000 I 1.625 187656115445. I 1.443 18294 51 I 100.000 100.000 141.000 I 1.510 I 1.500 1 1.511 12981 52 I 100.000 120.000 I 1.510 I 1.511 13304182416. I 1.433 1 12981 52 I 100.000 120.000 I 1.510 I 1.511 13304182416. I 1.433 1 12981	4	0.00	60.00	91.00	ы	.87	745	5189	Н	. 63	559	836
96 I 60.000 120.000 I 21.000 I 2.252 720521974. I 1.919 7088   08 I 60.000 120.000 I 41.000 I 2.252 720531974. I 1.919 7088   08 I 60.000 140.000 I 2.485 9336937568. I 2.086 9205   14 I 60.000 140.000 I 2.722 11572242518. I 2.252 11423   18 I 80.000 100.000 I 11.000 I 1.705 14396884447. I 1.506 14074   23 I 80.000 100.000 I 11.000 I 1.705 14396884447. I 1.506 14074   28 I 80.000 100.000 I 11.000 I 1.738 9130452519. I 1.425 5475   33 I 80.000 140.000 I 11.000 I 1.907 13024968291. I 1.529 8935   44 I 80.000 140.000 I 11.000 I 1.656 1405320787. I 1.694 3990   47 I 100.000 80.000 121.000 I 1.656 14053115445. I 1.443 18294   51 I 100.000 100.000 I 11.000 I 1.510 I 1.525 19116   52 I 100.000 120.000 I 11.000 I 1.511 1.525 I 19116   53 I 100.000 120.000 I 1.5100 I 1.511 I 1.525 I 19116   54 I 100.000 1 141.000 I 1.511 I 1.525 I 19116	0	0.00	0.00	01.00	H	.77	266	1842	H	.55	1.99	-20591.
02 I 60.000 120.000 141.000 I 2.252 7200531974. I 1.919 7088 I 60.000 140.000 161.000 I 2.485 9336937568. I 2.086 9205 1423	96	0.00	00.00	21.00	н	00.	137	2567	H	.73	047	-29175.
08 I 60.000 140.000 161.000 I 2.485 9336937568. I 2.086 9205 14 I 60.000 181.000 I 2.722 11572242518. I 2.252 11423 18 I 80.000 101.000 I 1.705 14396884447. I 1.506 14074 23 I 80.000 101.000 I 1.606 5612634946. I 1.425 5475 24 I 80.000 120.000 131.000 I 1.907 13024968291. I 1.529 8935 38 I 80.000 140.000 I 1.907 13024968291. I 1.609 12776 39 I 80.000 140.000 I 1.956 4065320787. I 1.694 3990 47 I 100.000 121.000 I 1.625 187656115445. I 1.443 18294 51 I 100.000 141.000 I 1.614 13304182416. I 1.431 12981 55 I 100.000 120.000 I 1.731 153041112877. I 1.525 19116	02	0 0	20.00	41.00	н	.25	200	3197	H	9.	088	-36948.
14     I     60.000     181.000     I     2.722     115722.     -42518.     I     2.252     11423       18     I     80.000     60.000     101.000     I     1.705     143968.     -84447.     I     1.506     14074       23     I     80.000     101.000     I     1.606     56126.     -34946.     I     1.425     5475       28     I     80.000     100.000     I     1.738     91304.     -52519.     I     1.425     8935       33     I     80.000     120.000     I     1.907     130249.     -68291.     I     1.529     8935       44     I     80.000     181.000     I     1.956     40653.     -20787.     I     1.694     3990       47     I     100.000     121.000     I     1.625     187656.     -115445.     I     1.443     18294       55     I     100.000     141.000     I     1.614     133041.     -82416.     I     1.431     12981       59     I     100.000     121.000     I     1.731     195440.     -112877.     I     1.525     19116	80	0.00	40.00	61.00	н	.48	336	3756	H	. OB	205	-44120.
18 I 80.000 60.000 101.000 I 1.705 14396884447. I 1.506 14074  23 I 80.000 80.000 111.000 I 1.606 5612634946. I 1.425 5475  28 I 80.000 100.000 131.000 I 1.907 13024968291. I 1.529 8935  38 I 80.000 140.000 171.000 I 2.063 17034182584. I 1.776 16735  44 I 80.000 160.000 181.000 I 1.956 4065320787. I 1.694 3990  47 I 100.000 80.000 121.000 I 1.560 77056115445. I 1.443 18294  55 I 100.000 141.000 I 1.614 13304182416. I 1.431 12981  59 I 100.000 120.000 141.000 I 1.731 195440112877. I 1.525 19116	4	00.0	60.00	81.00	н	72	1572	4251	н	.25	1423	0733
23       I       80.000       80.000       111.000       I       1.606       56126.       -34946.       I       1.425       5475         28       I       80.000       100.000       131.000       I       1.907       130249.       -68291.       I       1.529       8935         38       I       80.000       140.000       I       2.063       170341.       -82584.       I       1.776       16735         44       I       80.000       160.000       I       I       1.956       40653.       -20787.       I       1.694       3990         47       I       100.000       60.000       111.000       I       1.625       187656.       -115445.       I       1.443       18294         51       I       100.000       121.000       I       1.560       77056.       -49388.       I       1.443       12981         55       I       100.000       141.000       I       1.614       133041.       -82416.       I       1.433       12981         59       I       100.000       161.000       I       1.731       195440.       -112877.       I       1.525       19116 <td>⊟.</td> <td>00.0</td> <td>60.00</td> <td>01.00</td> <td>н</td> <td>.70</td> <td>4396</td> <td>8444</td> <td>H</td> <td>. 50</td> <td>4074</td> <td>343</td>	⊟.	00.0	60.00	01.00	н	.70	4396	8444	H	. 50	4074	343
28 I 80.000 100.000 131.000 I 1.738 9130452519. I 1.529 8935 8935 I 80.000 120.000 151.000 I 1.907 13024968291. I 1.660 12776 12776 16735 80.000 140.000 171.000 I 1.956 4065320787. I 1.694 3990 47 I 100.000 121.000 I 1.625 187656115445. I 1.443 18294 7498 I 1.00.000 141.000 I 1.614 13304182416. I 1.431 12981 5981 I 1.525 19116	23	00.0	0.00	11.00	μH	. 60	612	3494	н	. 42	475	843
33 I 80.000 120.000 151.000 I 1.907 13024968291. I 1.660 12776 38 I 80.000 140.000 I 71.000 I 2.063 17034182584. I 1.776 16735 44 I 80.000 160.000 181.000 I 1.956 4065320787. I 1.694 3990 47 I 100.000 60.000 111.000 I 1.625 187656115445. I 1.443 18294 7498 1 1.00.000 121.000 I 1.560 7705649388. I 1.389 7498 7498 755 I 100.000 141.000 I 1.614 13304182416. I 1.431 12981 5981 I 1.525 19116	28	00.0	00.00	31.00	1-4	.73	130	5251	н	. 52	935	844
38 I 80.000 140.000 171.000 I 2.063 17034182584. I 1.776 16735 44 I 80.000 160.000 181.000 I 1.956 4065320787. I 1.694 3990 47 I 100.000 60.000 111.000 I 1.625 187656115445. I 1.443 18294 51 I 100.000 80.000 121.000 I 1.560 7705649388. I 1.389 7498 55 I 100.000 141.000 I 1.614 13304182416. I 1.431 12981 59 I 100.000 120.000 I 1.731 195440112877. I 1.525 19116	ന	0.00	20.05	51.00	н	90	3024	6828	н	, 66	2776	694
44 I 80.000 160.000 181.000 I 1.956 4065320787. I 1.694 3990 47 I 100.000 60.000 111.000 I 1.625 187656115445. I 1.443 18294 51 I 100.000 80.000 121.000 I 1.560 7705649388. I 1.389 7498 55 I 100.000 100.000 141.000 I 1.614 13304182416. I 1.431 12981 59 I 100.000 120.000 161.000 I 1.731 195440112877. I 1.525 19116	ထ	0.00	40.00	71.00	H	90.	7034	8228	н	7.	6735	4
47 I 100.000 60.000 111.000 I 1.625 187656115445. I 1.443 18294 51 I 100.000 80.000 121.000 I 1.560 7705649388. I 1.389 7498 55 I 100.000 100.000 141.000 I 1.614 13304182416. I 1.431 12981 59 I 100.000 120.000 161.000 I 1.731 195440112877. I 1.525 19116	44	0.00	60.00	81.00	H	. 95	065	2078	н	69.	066	
S1 I 100.000 80.000 121.000 I 1.560 7705649388. I 1.389 7498 55 I 100.000 100.000 141.000 I 1.614 13304182416. I 1.431 12981 59 I 100.000 120.000 161.000 I 1.731 195440112877. I 1.525 19116	47	00.00	0.00	11.00	<b>F</b> -4	. 62	8765	11544	н	, 44	8294	-126759.
55 I 100.000 100.000 141.000 I 1.614 13304182416. I 1.431 12981 59 I 100.000 120.000 161.000 I 1.731 195440112877. I 1.525 19116	51	00.00	0.00	21.00	н	.56	705	4938	н	38	498	99
59 I 100.000 120.000 161.000 I 1.731 195440112877. I 1.525 19116	in in	00.00	00.00	41.00	H	. 61	3304	8241	н	. 43	2981	90
	ري اي	00.00	20.00	61.00	ы		544	1287	н	.52	9116	S

-157950.	-53885,	-27950,	-64645.	-119834.	-176131.	-54735.	-90746.	-34555.	-76407.	-140058.		-70623.	-128342.	-42099.	-89435.	-159916.	-257654.	-82307.	-160561.	
387	82913.	854	89697.	167113.	38	75727.	131107.	47612.	59	9	311843.	96517	179000.	57970.	384	ω φ.	5955	112486.	220642.	
1.607	1.539	1.379	. (*)	(1)	4.		1.445	1.378	1.386	1.392	1.401	Ø	1.395	1.377	38		39	m.	1.374	
ы	н	Н	Н	н	н	н	Н	ļΗ	н	H	Н	н	·14	н	H	H	ы	н	H	
-140870.	-48338.	-25589.	-59153.	-109524	-160033	-50009.	-82260.	-31639.	-69922.	-128119.	-203306.	-64710.	-117103.	-38548.	-81851.	-146298.	-235641.	-75416.	-147001.	
259133.	84715.	39613.	217	( -	10	77767.	134295.	48939.	108835.	200367.	യ	99232.	372	59587.	27	S	369436.	56	226773.	
1.840	75	44	55	9	N	1.555	1.633	1.547	S	ဖ	1.575	ന		1,546	ഗ	9	1,568	.53	4,	
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181.000	191,000	111.000	131.000	151.000	171.000	181,000	201.000	121.000	141.000	161.000	181.000	191,000	211.000	131.000	151,000	171,000	191.000		221.000	
140.000	160.000	60.000	80.000	100.001	120.000	140.000	160.000	000.09	80.000	100.000	120.000	140.000	160.000	60.000	80.000	100.000	120.000	140.000	160.000	
100.000	100.000	120.000	120.000	120.000	120,000	120,000	120.000	140.000	140.000	140.000	140.000	140.000	140.000	160.000	160.000	1.60,000	160.000	160.000	160.000	
H	н	н	н	ы	Ä	н	н	н	н	Н	н	H	H	н	⊢ŧ	н	н	ы	ы	
163	168	171	174	117	180	184	188	190	1.92	194	196	66 H	202	203	204	205	206	208	210	

\* \* LIST OF INPUT DATA

TRO DAM ORIGINAL SCHEME MEDIUM WL.164m 1:2.3 & 1:1.8 <MO-03>

						0.0500	1.0000
27	ហ	16	~	10	26	0	-1
NUMBER OF NODAL POINTS	NUMBER OF DIFFERENT MATERIALS	NUMBER OF ELEMENTS	NUMBER OF SURFACE LINES	NUMBER OF WATER POINTS	NUMBER OF PORE PRESSURE POINTS	ACCELERATION OF EARTHQUAKE	UNITE WEIGHT OF WATER

MATERIAL PROPATY

ACC.FACTOR PORE.FACTOR	0.00.0	0.00.0	0.000	0.000	0.00.0
ACC.FACTOR	1.000	1.000	1.000	1.000	1.000
WEIGHT(SAT) (T/M3)	1.80	2.37	2.23	2.23	1.80
WEIGHT (WET) (T/M3)	1.72	2.13	1.93	1.93	1.72
FRICTION (DEGREE)	30.0	40.0	36.0	36.0	30.0
COHESION (T/M2)	0.0	0.0	0.0	0.0	0.0
TYPE	0	0	0	0	0
	ᆏ		(M)	4	ហ

DATA OF SLIPPE CIRCLE

OUTLINE OF GRID

NUMBER	GROUP (1)	(1)	GROUE	P(2)
	X-C00R	Y-COOR	X-000A	Y-COOR
<b>H</b>	-200,000	0 0 0 0	20.000	000.09
2	-40,000	0.00	160.000	000.09
т	-40,000	160.000	160.000	160.000
4	-200,000	160.000	20.000	160.000

100E+01)	* * * * * * * * * * * * * * * * * * *																			-				
.0 .0 .0 .0 .0 .000E-01)X+(~7.100E+01)	* * * * * * * * * * * * * * * * * * *																							
20.0 20.0 10.0 5.0 ¥≈( 0.00(	**************************************		ATE	00	0	00	, 0	00	0.0	500	000	000	000	000	000	. 000	000	0	0	0		0		000
ACE	**************************************		Y-COORDINATE (M)	0.0	· ·	2.041	. 0		7	o,	٠ م	ത്ര	W							175.0		N (	95	-32.
AL(X)	1 X L L S S L L S S L L S S L L S S L L S S L L S S L L S S L L S S L L S S L S L S S L S S L S S L S S L S S L S S L S S L S S L S S L S S L S	NODAL POINT	00RD	00000	93.	-114.900 -122.900	190	125	111	Ś	an .	4	<b>5</b> 0	93.900	H	-6.000		LΩ	1.00	5.00	10.00	9	က္က	-200.000
INTERVI INTERVI INTERVI PPING HI RT LINE	NUMBER 1 2	COORDINATE OF	X   	Н	2	m d	ኮ ሆን	av o	7	œ	න	01	<b>⊣</b> (	4 H	14	15	16	17	8	5 H	20		22	
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132	NUMBER	20	Ω, I	27		Ϫ	9		21. 2		4 4							12	
0 & 0 0	DAL	ਜ	NUMBER	26		þ	ហ	9	ر اد	22		니 기 다		15				11	
-2.50( -0.438	0 4	7	(NODAL	25		1-1	4,	4	က်က	н		٦ ٢٠	ر. دن	1	. ف	<b>-</b> ; c	2 L	00	0
		ო	DATA (	16	:	Й				7			Н		rł				
	SURFACE	4	LINE	24	DATA	TYP	8	LC)	<b>(4)</b> (4)	ଷ'	000	1 (2	m	m	·	⊣ ი	റ സ	2	0
4 2 0 c		ις	ATER L	23	CEMENT	LEMENT	H	0	(Y) 4	ις)	ωr	~ ω	Q)	30	 	7 1	⊣ 다 <b>)</b> 쇼	15	10
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DATA OF PORE PRESSURE IN NON-PERMEATION ZONE

POTENTIAL	.50	. 50	.50	.50	50	2.50	2.50	2.50	2.50	5.50	5.50	5.50	5.50	5,50	5.50	5,50	1,50	1,50	1.5(		Š	š	9.5	Ŋ,	19.500	Ö.
Y-COORDINATE PO	9.500	0.437 -7	1.375 -7	2 -7	3.250 -7	4.187 -7	5.125 -7	6.062 -7	7.000 -7	3.500 -5	1.250 -5	000	1.750 -5	2.500	3.250 -5	₹.000	9.500	1.200	62.900	4.600	46.300 -	9.000	79.500	69.750	- 000.09	79.5
X-COORDINATE Y-CO	52	389	253	117 -	982	346 -	710 -	574 -	438	475	812	150	488	.825	.163	.500	0.475 -	2.040	3.605	5.170	6.735	8.300	0.475	1.737	23.000 -	4.525
×																										
NODAL POINT		2	ന	ব	Ŋ	G	7	ω	თ	10	11	12	13	ጋ 4	15	19	1.7	18	გ.	20	21	22	23	24	25	56

TRO DAM ORIGINAL SCHEME MEDIUM WL.164m 1:2.3 & 1:1.8 <MO-03>

FACTOR (SEISMIC)		1 7		00.00	00.00	00.00	00.	00.00	5.	. 69	69	69.	69.	69	69.	69,	. 69	69.	. 69	. 69	69.	69	00.	3,4	.34	.34	ς,	.34	1.347	ო,	ო.	ო.	
SAFETY (NORMAL)	-	69	1.930	00:00	00.00	00.00	00.	00.00	. 93	.93	9	.93	93	. 93	.93	.93	. 93	. 93	9	.93	e. Θ.	93	00.	.57	.51	. 51	.51	.51	┉	.51	5	. 51	
OF SLOPE	i	43	0.435	00.	00.	0	.00	00.	.43	43	43	.43	43	.43	43	43	43	.43	.43	43	43	43	00.	.55	. 55	.55	55	55	.55	.55	. 55	. 55	
GRA.																															٠.		
FRICTION	1	. eo	688.0	.57	83	83	.83	83	83	83	83	83	. 83	.83	83	83	83	8	.83	83	, 83	83	57	.83	.83	.83	83	83	83	83	.83	.83	
ACCEL	1	0.5	0.050	.05	0.5	.05	.05	.03	.05	0.5	0.5	.05	.05	.05	.05	. 05	0.5	.05	.05	(C)	0.5	.05	.05	.05	.05	.05	.05	0.5	.05	80	.05	S	
WEIGHT (SAT)		37	2.370	.80	37	.37	.37	.37	.37	.37	37	.37	.37	.37	.37	.37	.37	.37	.37	37	.37	.37	.80	.37	.37	.37	.37	37	.37	.37	.37	.37	
WATER	1	r-i	-i	<b>-</b> I	7	r⊷f 1		7		e-1		<del>-</del> -i	H	r-t	<b>,</b> -1	Н	г	ᆏ	-	⊢	rd	<b>,</b> —I	ri,	<del></del> 1	H	<b>~</b>	ы	1	<b>1</b>	ਜ਼ੀ		гď	
MAT	c	o (4	8	Ŋ	7	7	7	Ø	7	7	7	~	(7)	7	7	7		7	0	7	7	Ċ,	႕	7	7	0	<b>(7</b> )	<b>(7)</b>	α	01	0	0	
INATE (PERIOD)	7	-125.900	22.90	114.90	111.90	104.97	93.90	93.15	3.60	62.91	41.02	33.02	74	15.52	3.52	3.40	5.00	3.14	2.50	1.00	0.43	00.0	0.00	0.84	5.00	8.30	1.00	4.00	. 52	0.52	9.52	5.00	
X-COORDINATE (START) (PERI		-190.750	125.90	2.90	114.90	111.90	14.97	3.90	3.15	3.60	15.51	11.02	13.02	0.74	5.52	9.52	8.40	6.00	3.14	2.50	1.00	0.43	0.00	0.00	0.84	5.00	8.30	1.00	4.00	4.52	0.52	. 52	
OCK		4 01	ന	4	ഹ	Q	<u>~</u>	ထ	σ																							32	

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\* STABILITY ANALYSIS (MOST DANGEROUS SLIPPE CIRCLE)

# TRO DAM ORIGINAL ACHEME MEDITIM WI. 1644 1.0 3 6 1.1 8 AMOLDSV

TRO DAM ORIGINAL SCHEME MEDIUM WI.164m 1:2.3 & 1:1.8 <mo-03></mo-03>	:1.8 <mo-0< th=""><th>Á</th><th></th></mo-0<>	Á	
	1 1 1 1	1 1 1 1 1	į.
CALCULATION NUMBER	83		
SLIPPE CIRCLE(X-COORDINATE)	-80.000 20.000 61.000	(M) (M)	
SAFETY FACTOR (NORMAL CONDITION)	1,883		
RESISTANCE MOMENT (TOTAL:NORMAL )	41036.	(TON*M)	
FORCE (	0.00	(NOL)	
	10.70 -253.24 -16.49	(TON) (TON) (TON)	
SLIDING MOMENT (TOTAL:NORMAL )	21795. 24906. 386.34 -29.05	(TON*M) (TON*M) (TON) (TON) (TON)	1 -

## STABILITY ANALYSIS

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MEDIUM WL.164m
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TRO

CALCULATION NUMBER	78	
SLIPPE CIRCLE (X-COORDINATE)	-80.000	(W)
-DO- (Y-COORDINATE)	000.0	( <u>W</u> )
-DO- (RADIUS)	41,000	( <u>W</u> )
SAFETY FACTOR (NORMAL CONDITION)	1.890	•
-DO- (SEISMIC CONDITION)	1.594	
RESISTANCE MOMENT (TOTAL: NORMAL )	16307.	(M*NOE)
-DO- ( -DO-:SEISMIC)	15887.	(W*NOE)
RESISTANCE FORCE (COHESION)	00.0	(HOH)
-DO- (FRICTION:BODY FORCE )	601.33	(NOIL)
-DO- :WATER PRESSURE)	13.51	(HOL)
-DO- ( -DO- :PORE PRESSURE)	-217.11	(NOL)
-DO- ( -DO- :EARTHQUAKE )	-10.24	(TON)
SLIDING MOMENT (TOTAL; NORMAL )	8627.	(HON*M)
-DO- ( -DO-:SEISMIC)	9964	(HON*M)
SLIDING FORCE (BODY FORCE)	235.96	(TON)
-DO- (WATER PRESSURE)	-25.55	(NOL)
-DO- (EARTHOUAKE)	32.62	(HON)

\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL) TRO DAM ORIGINAL SCHEME MEDIUM WI.164m 1:2.3 & 1:1.8 <MO-03>

NUMBER	ннн	SLIPPE (COORDINAT)	PE CIRCLE NATE Y	RADIUS	н н н	SAFETY	S T A T I C M O M E N RESISTANCE	N T SLIDING	іннн:	SAFETY	DYNAMIC MOMEN RESISTANCE	T SLIDING
       	- - - -	0.00	0.00	21.00	     	53	497	775	   	16	371	280
2	Н	00.0	60.00	21,00	н	25	012	33	н	75	917	9
ന	н	0.00	0.00	41.00	н	47	515	826	ы	88	386	325
<b>ጥ</b>	, H	0.00	00.00	61.00	ы	68	270	m	Н	0	104	037
Ŋ	Н	00.0	120.000	0	н	88	262	4	н	7,	059	788
w	н	-180.000	40.	01.00	н	3.063	105558.	44	H	2.229	103120.	46261.
7	н	00.00	00	0	ы	33	231	4	H	8	163	193
ω	Н	00.09	00 0	.00	н	9	727	425	Н	6	627	837
Ø)	ы	00.00	00	01.00	Н	8	562		н	-	425	5
10	Н	00.00	0.00	21.00	Н	70	706	478	Н	2	532	342
t t	H	160.00	0.00	41.00	н	4	486	294	1-1	8	0253	465
12	Н	00.00	00.00	61.00	н	02	4460	777	H	22	4131	361
14	н	160.00	20.00	81.00	н	7	0.166	2	н	7	9698	938
15	ıН	50.00	40.00	01.00	н	S	97.1	0921	н	6	9	716
16	Н	50.00	0.00	00	Н	40	8239	924	Н	8	7339	9560
18	Н	10.00	0.00	51.00	н	극	10	9	H	2	200	Ø
20	Н	10.00	0.0	00.1	1-1	S	347	픘	н	4.	321	σt
21	H	10.00	0.00	01.00	н	8	0156	35	н	ĕ.		168
23	Н	10.00	ŏ		H	9,	150391.	50744.	H	ĭ.	4706	9
25	H	10.0	0.0	41.00	н	Ğ.	1753	165	н	ò	1254	0399
26	Н	-140.00	00.00	61.00	H	4	0617	2478	н	ó		480
27		-140.00	0.0	81.	Н	ñ.	1908	82	H	ά	0926	2124
29	Н	40.00	40.00	01.00	Н	8	5761	5184	н	ĕ	4459	023
31	H	10.0	60.00	21.(	H	-	031	1997	H	Č,	8729	8272
33	. н	120.00	0.0	61.00	1-1	α	37.5	67.0	H	છ	260	398
35	H	120.0	0.0	ે. ત્ય	, H	Ö	660	647	H	Ċί	07.66	850
37	j-j	20.03	0.0	0170	H	'n	748	744	н	Q,	7102	ည
თ . ო	H	20.02	0.0	21.	Н	m	623	127	н	φ.	5639	3754
4	Н	20.0	0.0	4)	Н	Ŋ	761	7969	Н	Γ,	6741	056
43	Н	20.0	0.00	 d	Н	Н.	401	936	н	7		681
45	Н	20.0	0.0	81.	н	۲.	560	047	H	7	4152	647

226808.	70.70	575	9047	273	435	674	954	1810	4 00	) ( ) ( ) ( ) (	0000		ე ს ი თ ქ დ	0 6	0 0 0	. Q . Q . Q . U	200	125	946	2378	426	115	406	426	2467	2063	065	8430	1632	723	969	32	438	138	761	998	00			
408326.	ひたない	92634	66462	67140	39484	76465	31230	99567	71787	00000	40707	2000	1000	, 0000	0000	4000	31316	77618	557	42834	94576	61533	00663	6330	41372	3485	86794	1006	3101	3215	1797	989	733	0228	826	454	239			
1.800	0	. 02	. 84	74	. 62	.63	. 65	. 69	, L	, a	0 L	, 6	3 6	, 4	1. (.	, ,	. 6	94	9	.80	7.4	77	.86	. 97	α.	ი ი	. 13	.29	6.	.82	.87	.03	-24	.47	69.	45	. 67			
HH	-1	н,	⊣.	н	H	H	ы	. <b>)</b> -4	i	(,⊢	<b>-</b> -	4 F-	4 <b>-</b>	4 · þ-	<b>⊣</b> ⊢	H 1-	l }-	ı ⊢	ļН	н	. H	н	н	H	н	H.	н	H	н	Н	н	ы	'n	н	Н	ы	н			
193014.		338	7289	2966	21386	1254	0415	04375	6042	0 500	0 # C # G	1000	2000	1000	4000	2000	30.3	90.00	481	0599	7470	9500	7830	4916	9875	7984	4976	1060	1444	6429	4993	860	9244	446	883	830	8			
417338.	07/7	9458	7022	7338	4049	7834	3436	0407	7747		1000 1000	7,000	יו אני	7 6	។ ជ ១០	000	9 00 00 00 00 00 00 00 00 00 00 00 00 00	8073	- 6	4371	0996	6473	0258	4882	4216	456	8811	253	316	348	239	454	839	0352	965	2484	275			
2.162	7	9	33	17	8	89	9	9.5	0.0	י ע	r o	ά	, a	) 0	. 6	; =		0	4.1	12	.03	.07	. 14	29	12	30	.51	.74	9	60	7.	88	. 68	9	33	6	93		-	
нь	ન .	н	⊢ŧ	Н	<b>;</b> -1	Н	н	. н	ı	ł F-	-1 h-	1 }-	1. t-	4.±	-1 h-	i ;-	, <sub>}</sub>	· -	· H	н	H	Н	ы	⊶	н	H	H	H	н	ы	H	ы	н	н	н	Н	н			
191.000	2	00.19	81.00	01.00	01.00	21.00	41.00	61.00	81 00		4.00			100	00.40	4 6	7	71.00	00.1	41.00	1.00	1.00	1.00	11.00	1.00	41.00	00.19	81.00	21.00	סס.ד	1.00	81.00	01.00	21.00	41,00	51,00	1.00			
140.000	00.00	00.0	00.0	00.0	00.0	00.0	00.00	20.00	00.0	20.00								40.00	00	0.00	0.00	0.00	0.00	80.00	00.00	20.00	0.00	60.00	00.0	00.0	0.00	0.00	0.00	00.00	20.00	40.00	00.			
-120.000	00.001	100.00	100.00	100.00	100.00	100.00	100.00	100.00	מט סטר		000								00.08	60.00	60.00	60.00	00.09	00.09	60.00	60.00	60.00	00.09	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00			
HF	4	Н	⊢ <b>⊣</b>	H	.н	Н	Hi	1-1		11	<b>-</b>	-ł }-	-4 b-	H E	4 j	<b>+</b> ⊧	4 F	1 1-	⊀. ⊢	H	н	н	Ħ	н	н	н	н	Н	H	н	H	Н	H	. <b>.</b> ⊢	l <b> -</b>	l <b>!-</b> -	н			
۵۵. ر ۳	) ) )	25	24	56	9	63	99	69	0.0	. (. 1 π	n α	, α	- ×	ין יו ס כ	o 0	1 L	ģ	, (	0			ч	$\sim$	$^{\prime\prime}$	ന	ന	4	4	u)	S	Ø	Q	-		α	) α	1 E			
		٠,									. •			:					٠.		ΙΑ			, .															٠	

\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MINMIM SAFETY FACTOR AT EACH GRID POINT (SEISMIC) TRO DAM ORIGINAL SCHEME MEDIUM WL.164m 1:2.3 & 1:1.8 <MO-03>

	1118	PPE CIRCLE		. 		-{ 				CHANAG	1
NUMBER I	COORDINATE	<b>,</b>	RADIUS	нн	SAFETY	ESI	T SLIDING	нн	SAFETY FACTOR	M O M E RESISTANCE	T SLIDING
1	00.0	00.0	21.00	- - - - -	1 8	197	775	;    - 	i e	371	1 (N
	000	60.00	21.00	н	25	012	e C	: H	75	917	661
H		80.000	141.000	H	2.473	45159.	18262.	н	1.886	43864.	23254.
	00.00	00.00	61.00	н	68	270	33	н	0	104	037
	00.00	00.0	81.00	н	88	262	864	н	72	059	788
	180.00	40.00	01.00	н	90	555	44	н	22	312	62
	160.00	0.00	00.	ы	33	231	4	н	8	163	193
	160.00	0.00	00.	11	61	727	425	н	6	627	8
	160.00	0.00	01.00	н	8	562	940	H	H	425	562
	160,00	0.00	21.00	н	20	706	478	н	25	532	ന
	160.00	0.00	41.00	н	1	0486	294	Н	2	0253	46
۸.	160.00	00.00	61.00	н	02	4460	777	H	22	4131	36
	160.00	0	.00	н	7	166	S	н	7	698	9381
	160.00	40.00	01.00	ы	5	7971	0921	н	9	7316	716
	50.00	60.00	21.00	н	40	8235	924	н	8	7339	9
~	140.00	ŏ	00:	Н	7	10	9	н	N	750	8
_	10.00	0.0	00	1-1	Ω,	347	<u></u>	H	4,	321	0
	40.00	0.00	01.00	ы	Ę,	0156	035	н	ñ	944	9
m	40.00	0.0	21.00	Н	9	5035	07.4	ы	H	4706	6692
ın	40.00	0.0	41.00	1–4	ĕ	1751	165	Н	ò	1254	039
w	40.0	00,00		H	4	617	2478	Н	o,	906	480
_	40.00	0.0	81.00	<b>;-</b> 4	ñ	1908	8	н	8	0926	2124
ക	40.00	40.04	01.00	ы	8	57	518	н	œ.	4459	0238
	40.00	60.00	21.00	Н	7	0317	199,	ы	7	8729	8272
m	20.0	0.0	61.00	Н	ò	375	67	Н	Ġ	6260	398
'n	20.03	0.0	81.00	<b>\$-</b> -{	ö	0992	64	H	N	0766	φ Ω 8
	20.0	ō	00.10	н	ī,	7487	74	Н	ف	7102	8583
თ	20.0	0.0	21.00	н	řή	62.	112	H	œ.	5635	3754
e-1	20.0	0.0	41.00	н	N	7614	969	1-1		6741	056
n	-120.000	00.00	1.00	۲H	H	514087.	ത്	н	1	502264.	286817.
	20.0	0.0	81.	H	mi.	2600	047	н		41.52	647

436594.	4575	047	273	2435	674	954	1810	489	8863	966	490	895	387	140	957	124	9125	0946	9668	77962	115	4060	263	246	2063	065	843	63	723	969	632	438	38	761	98	60	
782272.	9263	6646	6714	3948	7646	3123	9926	178	4628	588	003	7965	3808	0100	8726	3131	77.61	2557	9170	0340	6153	9900	633	4137	348	8679	100	310	321	179	368	733	228	2826	454	239	
1.792	. 22	34	74	. 62	. 63	. 65	. 69	.75	.83	. 59	09	. 62	64	.70	16	84	Q. ⊈	90.	.75	.70	77	.86	. 97	.84	98	13	.29	90	. 82	. 87	03	.24	47	69.	. 45	67	
363257, I	35382.	2890.	2966,	1386.	1254.	70415.	04375.	6042,	64318,	8627.	1795,	3072.	4034,	6677.	4229.	3038,	9918.	4818,	90871.	7994	9500.	7830.	4916.	9875.	7984.	4976.	1060.	444.	6429.	4993.	2860.	9244.	466.	8836.	309.	867.	
799069.	9458	022	7338	049	7834	3436	0407	747	5301	630	103	8158	4134	1149	8909	3383	8073	2921	9570	0913	6473	0258	882	4216	456	8811	253	316	348	239	454	839	352	2962	484	275	
2,200	67.	.83	.17	89	99	96.	: ئ	.04	4.	α. Ο	88	.89	.90	.98	.01	. 12	.26	41	7.5	.08	.03	.14	2,0	12	.30	.51	4.	9	60.	91.	.38	. 68	00.	.33	99	.31	
201.000 I	61.00	1.00	00.10	00.10	21.00	41.00	61.00	1.00	01.00	41.00	1.00	81.00	01:00	1.00	31.00	51.00	71.00	91.00	61.00	1.00	81.00	91.00	11.00	21.00	41.60	61.00	1.00	1.00	1.00	1.00	81.00	01.00	1.00	41.00	51.00	71.00	
140.000	00.0	00.0	00.0	00.0	80.00	00.00	20.00	40.00	00.09	00.0	20.00	40.00	60.00	00.0	00.00	20,00	40.00	00.09	0.00	00.0	00.0	00.00	0.00	00.00	0.00	40.00	60.00	0.00	0.00	0.00	0.00	0.00	00.00	00.0	40.00	60.09	
-120.000	100.00	100.00	100.00	100.00	100.00	100.00	100.001	100.00	100.00	90.08	30.00	30.00	30.00	30.00	30.00	80.00	30.00	30.00	50.00	60.00	60.00	60.00	60.00	60.00	00.09	60.00	60.00	40,00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	
47 I	, icu	4,	9	0	63	9	O)		īΟ.	23	<del></del> 1	34	7	0	r)	ආ ආ	103	107	108	112	118	123	127	32	37.	42	47	52	57	62	67	72	77	82	တ	4	
				-											-		•		IJ	A	- ;	39	l														

## STABILITY ANALYSIS (MOST DANGEROUS SLIPPE CIRCLE)

	TRO DAM ORIGINAL SCHEME MEDIUM WI.164m 1:2.3 & 1	£ 1:1.8 <mo-03></mo-03>	3	
		1 	 	:
	CALCULATION NUMBER	199		
	딘	140.000	(W)	
		140.000	<b>Σ</b> :	
	-DO- (RADIUS)	191,000	(M)	
	SAFETY FACTOR (NORMAL CONDITION)	1,533		
٠	-DO- (SEISMIC CONDITION)	1.367		
	RESISTANCE MOMENT (TOTAL: NORMAL )	99232.	(M*NOL)	
	-DO- ( -DO-:SEISMIC)	96517.	(TON*M)	
	RESISTANCE FORCE (COHESION)	00.0	(LON)	
,,	-DO- (FRICTION: BODY FORCE )	519.54	(TON)	
	-DO- ( -DO- :WATER PRESSURE)	00.00	(NOI)	
	-DO- :PORE PRESSURE)	00:00	(NOL)	
	-DO- :EARTHQUAKE )	-14.21	(TON)	
	SLIDING MOMENT (TOTAL:NORMAL )	-64710.	(TON*M)	
	-DO- ( -DO-:SEISMIC)	-70623.	(HON*M)	
	SLIDING FORCE (BODY FORCE)	-338.80	(HON)	
	-DO- (WATER PRESSURE)	0.00	(NOL)	
	-DO- (EARTHQUAKE)	-30.96	(NOI)	

\* MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM ORIGINAL SCHEME MEDIUM WI.164m 1:2.3 & 1:1.8 <MO-03>

'																															
	E+	STIDING	-6706.	$\circ$	ന	048	u)	255	752	22	-8446.	042	-12213.	385	836	059	917	694	412	-50732.	-93436.	843	-58446.		420	356	675	398	68	534	
DYNAMIC	N N N N	RESISTANCE	165	30105.	887	785	669	626	430	175	826	53	296	060	559	199	047	088	205	423	4074	475	89357.	176	6735	990	294	498	$\sim$	116	
	SAFETY	FACTOR	.22	.71	4.158	S	4.934	.27	.97	88	.16	ഗ	69.	.95	. 63	.55	73	19	80.	.25	. 50	. 42	1.529	Q	~	Ç	<1,	$\infty$	ന	$\alpha$	
н	н	нь	-1 H-1	H	н	н	н	н	H	H	н	н	н	н	н	н	ы	ы	ы	H	H	ьi	H	ы	ы	н	ы	ы	H	н	
	E+	STIDING	2	-5891.	50	669	40	74	9	537	77		-9803.	087	189	842	567	197	756	-42518.	444	494	251	82.9	S	078	544	938	Ø	87	
O H H		RESISTANCE	182	33	909	309	725	653	510	193	850	25675.	330	127	745	266	137	200	336	572	4396	612	91304	024	7034	065	765	705	30	9544	
	SAFETY	FACTOR		14	.01	.87	,73	.59	.33	.22	.60	9	.39	.79	,87	.77	00.	.25	,48	.72	,70	. 60	1.738	96.	90,	Ω	. 62	56	.61	.73	
Н	ы	⊁ <del>1</del> ⊦	-1 }-1	H	н	<b>;-</b>	н	ы	н	H	н	н	H	н	Н	н	н	н	н	ы	H	ы	н	н	μd	Н	Н	н	H	H	
	RADIUS		00.	1.00	11.00	1.00	51.00	71.00	1.00	1.00	11.00	1.00	51.00	71.00	91,00	01.00	21.00	41.00	61.00	81.00	01.00	11.00	131,000	51.00	71.00	81.00	11.00	21,00	41.00	61.00	
SLIPPE CIRCLE	NATE	×	00	80.00	00	20.00	40.00	60.00	0.00	00.0	00.00	00.0	40.00	60.00	00.0	0.00	00.00	20.00	40.00	0.00	60.00	00.0	00.0	0.00	40.00	60.00	0.00	00.00	00.00	0.00	
SLIP	COORDINATE	×	00.0	.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00-0	0.00	0.00	0.00	80.000	0.00	0.00	0.00	00.00	00.00	00.00	· 0	
H	н	н	i 1 -1 1-4 ! •	н	н	Н	Н	H	H	H	Н	Н	Н	Н	Н	Н	H	H	н	1-1	Н	μH	<b>;-</b> -t	, IH	Н	۱ 1-	-	:    -	ı  -	i 1-4	l
,	NUMBER		7	7	50	. 56	32	38	44	51	58	65	72		84	S)	·0)	0	0		ાન	CV	S	ന	ന	4	4	· v	) ľ	9 (F)	)

57950	5388	27950.	64645.	1983	761	54735.	.90746.	.34555.	-76407.	400	22641.	-70623.	.28342.	-42099.	89435.	.59916.	57654.	8230	160561.	
1	it	t	ł	1		1	!	i	1	딕	-2	í	H	1	1	7	-2	1	7	
্	82913.	$\infty$	89697.	7	23	75727.	131107.	47612.	105902.	S	311843.	96517.	179000.	57970.	384	222395.	359550.	48	220642.	
Ų	ാന	.37	38	•	.44	'n	1.445	m	1.386	1.392	7	ω.	٠	w,	1.385	w,	w,	ω,	ന	
ŀ	4 1-4	<b>;</b>	H	н	H	н	Н	н	ы	H	н	ŀ~t	Н	ы	н	н	H	н	н	
0100411	483	558	93.5	952	003	500	-82260.	-31639.	-69922		033	-64710.	-117103.	-38548.	-81851.	62	-235641.	-75416.	-147001.	
250123	8471	961	217	171639.	.0	9	134295.	48939	ထ	003	ij	99232.	F~~	59587.	27	2853	943	115650.	226773.	
ā		54	55	.56	. 62	1.555	1.633	1.547	5.5	.56	.57	ന	ς.	1.546	1.555	.56	.56	ന	.54	
<b>)</b>	1 H		ы	H	н	<del>1~1</del>	н	ы					Н		H	н	H	Н	Ħ	
181 000	191.000	111.000		151.000	171.000	181,000	201,600	121.000	141.000	161.000	181.000	191,000	211.000	131.000	•	<u>, , , , , , , , , , , , , , , , , , , </u>	•	201.000	221.000	
140 000	160.000	000-09	80.000	100.000	120.000	140.000	160.000	60.000	80.000	100.000	120.000	140.000	160.000	000.09	80.000	100.000	120.000	140.000	160.000	
100.000	100.000	120.000	120,000	120.000	120.000	120.000	120.000	140.000	140.000	140.000	140.000	140.000	140.000	160.000	160.000	160.000	160.000	160.000	160.000	
н	ы	ы	н	н	н	н	н	Н	н	н	н	H	ы	Н	<b>  </b>	Н	ы	н	н	
163	168	171	174	$\sim$	180	ന	ထ	O	192	194	196	199	202	203	204	205	206	208	210	

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* TRO DAM ORIGINAL SCHEME AFTER COMPLETION 1:2.3 & 1:1.8 <MO-04> LIST OF INPUT DATA

0.0250 1.0000 NUMBER OF NODAL POINTS...... NUMBER OF ELEMENTS...... ACCELERATION OF EARTHQUAKE...... UNITE WEIGHT OF WATER...... NUMBER OF DIFFERENT MATERIALS...... NUMBER OF PORE PRESSURE POINTS...... NUMBER OF WATER POINTS.....

MATERIAL PROPATY

WEIGHT (WET) WEIGHT (SAT) ACC. FACTOR PORE. FACTOR 0000.0 1.000 1.000 (T/M3)2.23 1.80 (T/M3)1.93 1.93 1.72 2.13 FRICTION (DEGREE) 30.0 40.0 36.0 36.0 COHESION (T/M2)0.00 TYPE 0

SLIPPE CIRCLE OUTLINE OF GRID DATA OF

---GROUP (2) -----60.000 Y-COOR 60.000 000.09 160.000 160.000 X-COOR 20.000 000.091 20.0 20.0 THE INTERVAL(X)..... THE INTERVAL (Y) ........... ---GROUP (1) -----0.000 0.000 160.000 Y-COOR -200:000 -40.000 -40.000 -200.000 X-COOR NUMBER

THE INTERVAL(R).....

IIA - 43

* 11 E   CO	4 00	****
I	70.0 -105. 62.0 -33.	
INATE OF NODAL POINT	62.0 -33.	-62.0
INATE OF NODAL POINT  X-COORDINATE (M) 0.000 -93.150 -114.900 -122.900 -125.900	DINATE (M) 0.000	-62.0
X-COORDINATE (M) (A) (A) (B) (B) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	(M) (O) 0.000 10.500	
X-COORDINATE (M) 0.000 -93.150 -114.900 -122.900 -125.900	ADINATE (M) 0.000 10.500	
(M) 0.000 1114.900 1122.900 1125.900	(M) 0.000 10.500	
0.000: -93.150 -114.900 -122.900 -125.900	.50	
-93.150 -114.900 -122.900 -190.750 -125.900	50	
1114.900 -1122.900 -1190.750 -1125.900		
-122.900 -190.750 -125.900	-40.500	
-125.900 -	0	
-125.900	0	
CCC 111	0	
1 006.177	0	
-15.525	79.500	
9.525	ა ი	
0 24.525	9.5	
30.525	79.500	
39.525	1.0	
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4 -41.025 -		
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7 15.000 -		
21.000		-
145:000	5.0	
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104.977 _	0	
-33.025 -	2	٠

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	, ק	Ŋ	Q	7			13		14		15					T	
	H	4	ব	က	ო	21	7	e-d		15		16				: · 8 -	
DATA	TYPE	7	ഗ	7	7	ਚਾ	7	7	7	m	თ.	-	<del>, -</del> 1	m	ന	7	~
ELEMENT 1	ELEMENT	:- H	7	<b>ო</b>	য	ഗ	9	 [-	ω	σħ						15	
							. *										

TRO DAM ORIGINAL SCHEME AFTER COMPLETION 1:2.3 & 1:1.8 <MO-04>

FACTOR (SEISMIC)	1.805	0.00	00.00	00.0		1.80	.80	လ	1.805	1.805	1.805	$\circ$			1.425	1.425	1,425	4.	1.425
SAFETY (NORMAL)	1.930	00.00	· 0	00.00		1.93		$\sim$	m	ന	(L)	$^{\circ}$	$\circ$	~~1	~	~	.51	1.510	~
GRA. OF SLOPE	0.435	00.	00.	$\circ$	000.0	, 4	43	4	0.435		4.	0.435	00.	ß	. 55	.55	.55	0.556	0.556
FRICTION	0.83.0 8.80.0 8.80.0	.57	83	დ ი	η 0	, «	83	83	.83	.83	.83	.83	. 57	.83	സ	.83	83	0.839	0.839
ACCEL	0.025	0	.02	$^{\circ}$		, 0	. 02	.02	. 02	.02	.02	0.025	.02	.02	0.025	0.025	.02	0.025	0.025
Weight (Sat)	2.370	.80	E. 1	ال	د د	. W		37	.37	.37	37	ω.	8.	ω.	m	.37	37	2.370	2.370
Water	ਜਜ		₽4.	,⊣,	ન -	-l e	l ~−t	e٦	e-1	<b>~</b>	7	Н	7		<b>,-</b> 4	⊣	Н	۲	r-1
MAT	0 0	S	0	~ (	<b>7</b> C	1 0	ı (2)	7	7	2	2	23	г	7	7	~	8	7	7
INATE (PERIOD)	-125.900 -122.900	4.9	11.90	کار دی و	000.881	41.00	10		φ.	000-9-	0	000.0	10.000	15,000	21.000	24.525	30,525	39.525	145,000
X-COORDINATE (START) (PERI	-190.750	22.	14.9	11.90	7.50.40.1	) ( ) ( ) (	 } ~4	ິຕ	•	თ	•	•	•	10.000	5.00	21.000	24.525	0.52	39.525
BLOCK	н 0	m	7	ഗ	J Q	- α	ത	10	r-1	-8-1	e H	,	11		17	18	ത പ	50	21

### \* STABILITY ANALYSIS (MOST DANGEROUS SITEDE CIECTEN

	* (NOSI DANGEROUS SLIPPE CIRCLE) ************************************	TRCLE) (******	(NORMAL) ********	*
		•		
	TRO DAM ORIGINAL SCHEME AFTER COMPLETION 1:2.3 &	1:1.8 <mo< th=""><th><mo-04></mo-04></th><th>1</th></mo<>	<mo-04></mo-04>	1
				l I
	CALCULATION NUMBER	9		
	SLIPPE CIRCLE (X-COORDINATE)	-80.000	(M)	
-	-DO- (Y-COORDINATE)	80.000	(W)	
	-DO- (RADIUS)	111,000	(M)	
	SAFETY FACTOR (NORMAL CONDITION)	1.979		
	-DO- (SEISMIC	1.849		
	A TANGOTAL TANGOTAL MAGNOTAL TOTAL CONTROL OF THE C	0 0 0		
		40 VOV.	(M.NOT.)	
		48440.	(M*NOH)	
	RESISTANCE FORCE (COHESION)	00.0	(NOL)	
	-DO- (FRICTION: BODY FORCE )	441.07	(HOM)	
	-DO	0.00	(NOI)	
	-DO- :PORE PRESSURE)	00.0	(LON)	
	-DO- :EARTHQUAKE )	-4.68	(TON)	
	SLIDING MOMENT (TOTAL: NORMAL )	24739.	(HON * M)	
	-DO- ( -DO-:SEISMIC)	26198.	(M×NOH)	
	RCE (BODY F	222.88	(NOF)	
		00.0	(TON)	
	-DO- (EARTHQUAKE)	13.14	(TON)	

TRO DAM ORIGINAL SCHEME AFTER COMPLETION 1:2.3 & 1:1.8 <MO-04>

H Z	ப	3157	. 231	3231	4171	. 5133	. 6187	166	2564	3511	449	. 5921	8235	7. 116112.	. 16228	. 22268	5. 474	3. 728	5. 5353	8. 8250	1. 12261	0. 17569	4. 2435	32516	. 4053	885	. 567	4. 966	0. 15	192	
N W W D K	TAN.	83	38	64	84	3176	336	189	312	364	2298	6711	2729	30697	0962	3867	250	202	6138	3287	521	4108	8243	5051	2492	0182	7024	9	59	5	
- 5	FACTOR	27	0.4	2	39	56	72	90	30	52	73	82	76	2.644	.52	4.	.63	.02	0	82	8	Ų.	ĕ,	ĕ.	28	52	8	9	3	c)	
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E	SLI	928	171	30056.	854	714	651	559	378	229	660	390	516	064	-	0592	33	6563.	839	514	1241	6191	2534	169	7612	25552.	122	82	138124.	0263	
S H S H S A	TANCE	10	781	223	0059	197	6946	520	957	926	2377	6816	2879	309124.	1267	290	258	214	6234	3439	751	4441	707	5671	3252	234	7128	6232	378722.	2384	
i G	ı ĕ	1.4	20	40	€	8	9	25	50	7.6	9	12	0.4	2.904	6	8	96.	6	'n	Ξ	6	76	٠	3	4	ŏ.	m,	6	1	ŝ	
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מ מודר	201	21.00	21.00	1.00	61.00	81.00	00.10	οο.τ	1.00	01.00	21.00	41.00	61.00	181.000	00.10	21.00	1.00	71.00	01.00	21.00	1.00	00.19	81.00	01,00	21.00	7.00	1.00	01.00	ŏ	41.0(	
PE CIRCLE	4	00.0	0.00	00	00.00	0.00	40.00	8	0.00	00.0	0.00	0.00	00.00	120.000	40.00	60.00	0.	0.00	0.00	0.00	80.00	00.00	20.00	0.0	90.09	ĕ.	0.00	0:00	ŏ	0.0	
SAGITS	×	00.0	00.00	00.00	00.00	30.00	30.00	00.00	50.00	50.00	50.00	50.00	50.00	-160 000	50.00	50.00	\$0.0E	40.00	40.00	140.00	140.00	40.00	40.00	140.00	40 00	120.00	20.00	20.00	20.00	20.00	
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688462. 393433. 514636.	53328 42022 44682	77960 47141 87895	708 908	93987 72361 20768	8038 3609 3609	7700	87803	5061	21851 9345	745	056	4093	169	674	313	335	241	500	0066	4 T T C	976	
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278478. 160282. 213006.	43673 86264	470 339 387	7365	042 916 946	4.6	690	422	000	464 433	316	782	987	798	101	144	642 242	180	917	34	) 0 0 0 0 0 0	9 00	
694124. 396790. 519010.	4293 4646	8094 4763 8881	2863 233 233	9680 7569 2097	9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6	931	8871	199	2366 943	4 A	152	4133	223	750	316	348	000	583	62	2, 4, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	9 6 6	
2.493 2.476 2.476	27.4	0.00 0.00	00	22.	1 4 8	07	000	2 6	36	100	12.	9	22 5	. 29	7.	0, 1	. 6	ŝ	9	7 1	0	
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161.000	61.00 81.00	01.00	00.1	81.00 01.00	00.1	01.00	31.00	71.00	91.00	00.1	91.00	21.00	1.00	00.18	21.00	00.0	200	01.00	21.00	41.00 51.00	00	
120,000	20.00	000	000	60.00		80.00	00	40.00	00.09	00,00	00.0	00.00	000	00.09	0.00	00.0	, ,	00.0	00.00	20,00	00	
-120.000 -120.000 -120.000	100.00	100.00 100.00 100.00	100.00	00.00 00.00	00.08	80.00	80.00	00.08	80.09	60.00	00.09	00.09	00 09	60.00	40.00	40.00	40.00	40.00	40.00	40,00	40.00	
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STABILITY ANALYSIS
(MOST DANGEROUS SLIPPE CIRCLE) (NORMAL)

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TRO DAM ORIGINAL SCHEME AFTER COMPLETION 1:2.3 & 1:1.8	8 <mo~04></mo~04>
CALCULATION NUMBER	208
SLIPPE CIRCLE (X-COORDINATE)	160.000 (M) 140.000 (M) 201.000 (M)
SAFETY FACTOR (NORMAL CONDITION)	1.533 1.446
RESISTANCE MOMENT (TOTAL:NORMAL)  -DO- (-DO-:SEISMIC)  -DO- (FRICTION:BODY FORCE)  -DO- (-DO-:WATER PRESSURE)  -DO- (-DO-:PORE PRESSURE)  -DO- (-DO-:EARTHQUAKE)  -SLIDING MOMENT (TOTAL:NORMAL)  -21  -21  -21  -22  -23  -20- (EARTHQUAKE)  -20- (EARTHQUAKE)  -20- (EARTHQUAKE)  -21	115650. (TON*M) 114068. (TON*M) 0.00 (TON) 575.37 (TON) 0.00 (TON) -7.87 (TON) -7.87 (TON) -75416. (TON*M) -375.20 (TON) 0.00 (TON) -17.14 (TON)

MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM ORIGINAL SCHEME AFTER COMPLETION 1:2.3 & 1:1.8 <MO-04>

I NUMBER I	SLIPPE COORDINAT X	SLIPPE CIRCLE ORDINATE Y	RADIUS	ннні	SAFETY FACTOR	S T A T I C M O M E I RESISTANCE	N T SLIDING	ннн	SAFETY FACTOR	DYNAMIC MOMEN RESISTANCE	T SLIDING
1 .	00.0	00.0	1.00	- - - - - - -	.73	909	102	- - - - - - - - - - - -	.21	006	1 8
4.	00.0	00.0	1.00	н	.54	76	-5885.	н	<del></del>	9	-6991.
0	0.00	00.00	11:00	н	35	475	<u>4</u> .	н	.37	464	9
g	0.00	20.00	1.00	ы	15	297	98	н	. 90	285	3
0	0.00	40.00	51.00	ЬH	9	134	9	н	, 41	121	46
ထ	20.000	160.000	171.000	ы	7.737	59833.	-7733.	н	5.889	59697.	-10137.
4.	00.0	60.00	81.00	⊢i	.17	118	50	н	99	378	46
Н	00.0	00.0	1.00	H	. 95	052	37	ы	79	0.43	80
σ,	00.0	00.00	11.00	н	27	618	Ħ	н	90.	909	77
ហ	0.00	20.00	31.00	ы	62	244	56	н	.34	230	949
α	0.00	00.0	1.00	j <del>H</del>	9	915	980	н	. 63	899	100
o.	0.00	60.00	71.00	н	.33	621	087	н	.91	603	236
4	0.00	60.00	91.00	н	7.9	273	178	1-1	.66	180	501
	0.00	80.00	01.00	ы	.65	052	-18429.	H	. 54	01.9	57
Ø	0.00	00.00	21.00	н	8	710	567	H	.70	665	742
02	0.00	20.00	41.00	ы	0	562	197	н	.88	506	445
08	0.00	00.0	61.00	H	28	573	750	ы	.08	8507	077
망	0.00	60.00	81.00	ы	.52	0720	241	н	. 28	646	651
81	0.00	60.00	00.10	H-1	.65	936	444	н	. 54	3775	894
23	0.00	00.0	1.00	н	ů.	8	9.4	М	.47	412	-36691.
28	0.00	00.00	31.00	н	9	650	251	ы	.54	553	548
ლ	0.00	20.00	51.00	H	7.0	2239	824	н	99.	77	256
္တ	0.00	0.00	71.00	М	9	208	233	н	. 82	6029	813
44	0.00	60.00	81.00	н	7.	712	2078	н	. 65	675	2217
47	00.00	60.00	11.00	н	.6	619	54	н	. 52	4	21103
51	00.00	0.00	21.00	н	š	702	826	н	.47	30	168
5.5	00.00	00.00	41.00	Н	1.575	2984	824	н	.48	2822	8655
5.9	00.00	0.00	61.00	н	u,	691	287	Ħ	1.551	ব	91
163 I	0.00	40.00	81.00	н	w	5034	405	н	99	4	4908

-51112.	-26770.	-61899.	-114679.	-168082.	-52372.	-86503.	-33097.	-73164.	-134088.	-212974.	-67667.	-122722.	-40323.	-85643.	-153107.	-246647.	-78862.	-153781.	
78929.	39077.	90938.	168828.	250769.	75916.	128071.	48275.	107368.	197680.	314063.	97876.	178741.	58779.	125559.	225464.	364493.	114068.	223339.	•
1.544	1.460	1.469	1.472	1.492	1.450	1.481	1.459	1.467	1.474	1.475	1.446	1.456	1.458	1.466	1.473	1.478	1.446		
н	н	н	ы	н	н	<b>⊦</b> ⊣	ы	н	н	н	н	н	ы	н	н	ы	н	H	
-48338,	-25589.	-59153	-109524.	-160033.	-50009.	-82260.	-31639.	-69922.	-128119.	-203306.	-64710.	-117103.	-38548.	-81851.	-146298.	-235641.	-75416.	-147001.	
79830.	39613.	92178.	171091	253921.	76936.	129664.	48939.	108835.	200368.	318222.	99233.	181104.	59587.	127276.	228533.	369436.	115650.	226405.	
1.651	1.548	1.558	1.562	1.587	53	1.576	1.547	1.557	1.564	1.565	1.534	1.547	1.546	1.555	1.562	1.568	1.533	1.540	
H	н	н	Н	ы	н	н	ы	ы	H	н	ы	н	ы	н	<b>}-</b> 4	Н	H	н	
191.000	111.000	131,000	151.000	171,000	181.000	201.000	121.000	141.000	161.000	181.000	191.000	211,000	131,000	151,000	171.000	191.000	201.000	221.000	
160.000	60.000	80.000	100.000	120.000	140.000	160.000	60.000	80.000	100.000	120.000	140.000	160,000	60.000	80.000	100.000	120.000	140.000	160.000	
100.000	120,000	120.000	120.000	120.000	120.000	120.000	140.000	140.000	140.000	140.000	140.000	140.000	160.000	160.000	160.000	160:000	160.000	160.000	
ы	н	н	н	1-1	ы	ы	H	<b>}-</b> -I	н	н	н	Н	н	ЬЧ	Н	н	H	н	
168	171	174	177	180	184	188	190	192	194	961	199	202	203	204	205	206	208	210	

A	SCHEME DESIGN E LIST OF INF LIST OF INF SCHEME DESIGN E LINES  E LINES  E LINES  E LINES  EARTHQUAKE  IRCLE  COHESIC  (T/MZ)  0.0  0.0  1RCLE GROUP (1)  X-COOR  X-COOR  Z-COOR  Z-COOR	SLIPPE SLIPPE SLIPPE SLIPPE OF GRID  SLIPPE OF GRID  SLIPPE OF GRID  OF GRID  1	**************************************	RO DAM ORIGINAL SCHEME DESIGN FLOOD WI.193.5 1:2.3 & 1:1.8 <mo-05></mo-05>	OF NODAL POINTS	PATY	PE COHESION FRICTION WEIGHT(WET) WEIGHT(SAT) (T/M2) (T/M3) (T/M3)	0 0.0 30.0 1.72 1.80 1.80 0.0 40.0 2.13 2.37 1 0 0.0 36.0 1.93 2.23 1 0 0.0 36.0 1.93 2.23 1	5 0 0.0 30.0 1.72 1.80 1.000 OF SLIPPE CIRCLE	INE OF GRID	GROUP (1)
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100E+01)	**************************************																							
0 0 0 0 00E-01)X+(-7.100E+01	* * * * * * * * * * * * * * * * * * *																							
20.0 20.0 10.0 5.0 5.0	**************************************		다. 교	0	9.0	0 0		00	00	00	00	0.	00	00		00	00	00	00	00	00	00	00	
CE	**************************************		Y-COORDINATE (M)		0	-40.50 -40.50	0.0	-67.00	7.0	છ	9.5	ഗ	ა. ა.	0 0	, 47	9	9	6.0	6.0	0	0	2	2.0	6.7
AL(Y)	TYPE -2 -	NODAL POINT	ĮμΣ	00.	-93.	$\neg \circ$	190,	'n.	21.	'n	σ	₽.	Ö	39,525	· -	1 40		S	$\vdash$	5.00	00.0	4.97	33.02	0
THE INTERVAL(X). THE INTERVAL(Y). THE INTERVAL(R). STOPPING HEIGHT START LINE OF CI	NUMBER 1 2	COORDINATE OF	)               	H	2	W 4	ເທ	19	7	ထ	σı	10	근	2 c H r	) L	۲. ۲ ۲. ۲	⊢	17	18	51	2.0	21	22	23
INTERVA INTERVA INTERVA PPING HE RT LINE	NUMBER 1 2	DINATE	POINT	ч	2	W) Q	ເທ	. 6	7	ස	σι	10		2 c	) \ 	F 17	<b>9</b>	17	8 H	<b>б</b> Т	20	. 21	22	23

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56 00 00 NODAL	} 	I NUMBER	10		Þ	cs	Q	7	13	22	<u>۾</u>	~	7.4	ထ	15	თ	16	17	10	다 근	18
-0.1 10.0 18.3 DATA (	3 2	(NODA	5 26		н	4	ব	ო	ო	21	7	<b>⊢</b> t	15			97		20			
SURFACE	     †	E DATA	24 2	DATA	TYPE	7	Ŋ.	5	2	4	7	7	2	ന	ന	Н	H	ო	ო	7	7
24 25 26 3ROUND SU	         	WATER LINE	23	ELEMENT D	EMENT	Н	~	က္	4	īΟ	Ġ	~	ω	ത		11					
GR	•	<b>E B</b>		E	Ü																

DATA OF PORE PRESSURE IN NON-PERMEATION ZONE

POTENTIAL		
Y-COORDINATE	179.500 -69.875 -60.250 -150.625 -11.000 -121.750 -12.125 -12.125 -179.500 -70.000 -60.500 -71.200 -71.200 -71.200 -71.200 -79.500 -79.500 -79.500	7.00
X-COORDINATE Y-COORDINATE	-9.525 -8.354 -7.183 -6.012 -2.669 -1.327 -0.156 -1.327 -0.156 -1.327 -0.156 -1.327 -1	3.0
NODAL POINT	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 3 0

TRO DAM ORIGINAL SCHEME DESIGN FLOOD WL.193.5 1:2.3 & 1:1.8 <MO-05>

FACTOR (SEISMIC)	J	.93	93	00.00	00.00	00.00	00.	00.00	.93	93	93	83.	.93		93	93	.93	9	00.	5	5	S	5.	Ţ,	S	.51	Ŋ	ß
SAFETY (NORMAL)	ı	93	.93	00.00	00.00	00.00	00.	00.00	.93	93	9	.93	. 93	1.930	93	6	93	. 93	00.	5.	51	5.	.51	.57	5,	51	51	.51
GRA. OF SLOPE	ţ	43	43	00	00.	00	00.	00.	43	43	43	43	43	0.435	43	43	.43	43	00.	. 55	5	S S	.55	. 55	. 55	55	55	ເດ
FRICTION	ı	.83	83	57	83	.83	.83	83	83	83	83	.83	83	0.839	83	83	83	, 83	.57	.83	83	83	.83	.83	.83	.83	83	.83
ACCEL	1	00.	00.	00.	00.	00.	00.	.00	00.	00,	00.	00.	00,	0.000	00.	00.	00.	00.	00.	00.	00.	00.	00.	8	00.	00.	0.	00.
Weight (Sat)	ı	.37	.37	.80	.37	.37	.37	.37	.37	.37	.37	.37	.37		37	.37	.37	.37	.80	.37	.37	.37	.37	E.	.37	.37	3	.37
WATER	١	;—t !	۲٦ ا	덖	Ħ	- -	다 	겁	- 	7	7	∏	<del>(</del>	딕	ᡤ	٦	ત્ન	↔	<b>-</b> 1	⊣	<b>←</b> t	←ŧ	н	~-(	⊣	ત્ન	<b>,</b> ←t	Н
MAT	0	~	7	Ŋ	8	α.	7	8	α	7	2	CI.	2	~	7	8	7	8	Н	0	0	7	C!	~	2	2	N	~
INATE (PERIOD)	90.75	-125.900	22.90	114.90	111.90	04.97	-93.90	93.15	1.02	33.02	5.52	9.52	00.9	5.75	1.00	0.93	디	0.00	00.	0.84	5.00	8.30	1.00	4.00	4.52	0.52	9.52	5.00
X-COORDINATE - (STARI) (PERIOD	0.00	190.75	25.90	122.90	114.90	111.90	104.97	93.90	93.15	41.02	33.02	15.52	-9.52	-6.00	5.75	1.00	0.93	0.15	0.00	0.00	0.84	5.00	8.30	1.00	4.00	4.52	0.52	9.52
		•	٠,																									٠.
×	Н	0	ന	4	Ŋ	Ø	~	σ	თ	0	Ţ	12	3	4	ŝ	16	17	18	6	20	7	22	ِ 23	4	25	9	27	α

STABILITY ANALYSIS

*	*	
(MOST DANGEROUS SLIPPE CIRCLE) (NORMAL)	***********************	
CIRCLE)	*******	
SLIPPE	*****	
DANGEROUS	******	
TSOW)	*************	
*	*******	

TRO DAM ORIGINAL SCHEME DESIGN FLOOD WL.193.5 1:2.3 & 1:1.8 <MO-05>

	CALCULATION NUMBER	T o		
	CLE	80.000	(M)	
	-DO- (RADIUS)safety FACTOR (NORMAL CONDITION)	1.979 1.979 1.979	(E)	
	RESISTANCE MOMENT (TOTAL:NORMAL)	31490. 31490. 0.00	(TON*M) (TON*M)	
	-DO- (FRICIACN: BODI FONCE )DO- ( -DO- :WATER PRESSURE)DO- ( -DO- :BARTHQUAKE )		(TON) (TON) (TON)	
•	SLIDING MOMENT (TOTAL:NORMAL )	15912. 15912. 502.80 -359.45	(TON*M) (TON*M) (TON) (TON) (TON)	

MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL) TRO DAM ORIGINAL SCHEME DESIGN FLOOD WL.193.5 1:2.3 & 1:1.8 <MO-05>

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	: '	Ħ	SLIPPE	PE CIRCLE		Η		H			Ω	YNAMIC	
• •	NUMBER	ы н «	COORDINAT	NATE	RADIUS	, <b>⊢</b> ⊦	SAFETY	NEMOM	E E		SAFETY	MOMEN OBSTSTANDED	E F
•	.!	    -  -	<	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		i 1 1 1		10101	PILLING	  -  -  -  -  -			מדודות
			00.00	0 0	21.00	: 1 <del>11</del>	53	497	7758.		53	497	
	7		80.00	0.00	21.00	H	25	012	3345.		.25	012	334
	ന		180.00	0.00	41.00	<b>}</b> — <b>;</b>	.47	515	8262.		.47	515	826
	4		180.00	00.00	61.00	ы	.68	270	3384.		. 68	270	338
	Ŋ		80.00	00.0	7.00	Н	α, Θ	262	643.		88	262	64
	9		180.00	40.00	01.00	H-1	0.6	555	4459.		90	555	445
	7		09		61.000	н	2.338	22318.	9547.		2.338	22318.	9547.
	∞		60.00	0.00	1.00	H	61	727	4250.		.61	727	425
	<u>,</u>		60.00	0.00	01.00	ы	.86	562	9407.		-86	562	940
	10		60.00	00:	1.00	н	10	706	785.		10	706	78
			60.00	0.00	41.00	 H	1.8	0486	2942.		81.	0486	294
	12		160.00	00.00	61.00	H	. 07	4310	6505		.07	4310	650
ŧιΑ	4		160.00	00.0	81.00	Н	.91	401	6541.		.91	401	654
· 	15		160.00	40.00	01.00	н	7.0	5986	4137.		.76	5986	413
5	91		60.00	60.00	21.00	ы	. 63	4288	0389		. 63	4288	038
9	8 ₹		40.00	0.00	1.00	ы	, 1,	767	466.	1	4.	767	46
	20		40.00	00.0	1.00	H	53	347	815.	<b></b>	.53	347	81
-	21		40.00	00.	01.00	H	37	0121	9954.	H	.37	012	995
	23		40.00	0.00	21.00	н	, 11	4680	7125.	u	근.	4680	712
	25		40.00	0.00	41.00	н	8	0593	1074.	_	9.	0593	107
	26		40.00	00.00	1.00	н	72	037	02897.	u	. 72	037	0289
	27		40.00	20.02	81.00	Н	20	7137	43676.		.58	7137	4367
	29		40.00	0.00	01.00	н	4.9	8118	4062	u	.48	8118	40
	37		40.00	00.09	21.00	H	. 48	000	41373.	<b></b>	.48	0001	4137
	33		20.00	8.	1.00	H	88.	356	6364.	u	.88	6356	63
	35		20.00	0.00	7.00	<b>;~</b> 4	200	0714	2871.		.26	0714	28
	37		20.00	0.00	01.00	H	6	6494	6654.	<b></b> .	.91	6494	99
	0 0		20.00	00.0	21.00	ы	9	3903	8754	<b></b>	69.	3903	87
	2 4		20.00	8	1.00	1-4	5.4	160	30241.	_	.54	-	
	4 4		20.00	00.00	61.00	н	4.	4257	0105.	t⊶l	.45	4257	
	4 4,		0	0	71.00	H	4.	5295	03798.	<b>⊢</b> ! :	e) V	5295	0379

																												•										
138148.	6735	906	651	413	504	822	756	072	07.4	699	622	508	915	992	591	921	147	~	88	275	846	85.	13(	ŢŢ	35.	878	·-	20		-1	ô	œ.	ř	983	õ	6085,		
335158.	2341	008	587	4157	063	712	577	4464	829	5559	348	185	082	278	149	806	862	194	5724	909	9	837	717	027	823	42(	ñ	S.	ö	တ်	133	72	Š	40%	4	18725.	8	
42	5	0.0	i N	56	93	02	O I	04	18	(J)	7	H	0	0	9	9	4	3	6	4	급	6	7	4	õ.	6	ĭ.	ĕ	ř.	ŏ	H	Š,	Ö	7	iñ	3.077	'n	
н	н	н	H	н	H	н	н	н	h⊶l	H	H	н	н	н	ŀ−ŧ	H	H	ы	н	н	H	ы	н	н	н	H	н	H	H	н	н	н	۲	Н	H	H	H <sub>.</sub>	
138148.	6735	906	651	413	504	822	756	072	074	699	Ċ,	508	91.5	992	591	923	147	3	887	~	4	853	13(	11	355	87	~	ટ્રેઇ	928.	÷ί	ġ	ā	79	86	08	6085.	o.	
ι)	2341	000	5587	157	963	112	577	4464	200	5559	348	185	082	278	4.9	806	862	2194	724	909	783	83,	717	027	82	42(	m	92	$\dot{\sim}$	ပ်	13	72	50	40	41	18725.	8	
2.426	53	60	7.5	56	9	05	0	04	18	39	4	금	08	0	6	8	끔	3	6	4	7	6	7	4	ö	m	ř	ĭ	H	0	Н	'n.	0	7	Ŋ	0	S	
н:	Н	H	<b>-</b>	H	H	Н	н	H	Ħ	H	н	н	н	н	н	н	н	н	H	н	н	H	н	н	H	Н	н	н	Н	н	Н	Н	H	Н	н	н.	н	
191,000	11.000	000.	81.000	000.10	01.000	21.000	41.000	61.000	000	01.000	000	000	000.	01.000	11.000	31.000	51.000	000	91.000	31.000	L. 000	0.00.1	91.000	11.000	21.000	41.000	00001	81.000	21.000	1.000	1.000	1.000	000.10	21,000	41.000	1.000	71.000	
140.000	00.09	00.0	0.00	0.00	0.00	0.00	00.00	20.00	8	60.09	00.	00.1	00.	0.00	0.00	00.00	20.05	0	60.00	0	0.0	0.0	9.0	80.00	00 00	20.00	0	60.00	0.0	0.0	0	0.0	0.0	0.00	20.0	0	0.09	
-120.000	120.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	00.0	0.00	30.0	0.00	0.00	0.00	30.00	00.00	30.00	0.00	50.00	50.00	50.00	50.00	50.00	50.00	30.0	40.00	40.0	40.0	40.0	ō	0.0	0.0	0.0	
<u></u> ታረ ጉ	-, l	H	⊬ŧ	н	H	1-1	H	<b>)-</b> (	H	н	н	ы	1-1	н	Н	H	H	H	H	н	H	H	н	H	Ĥ	н	н	H	Н	Н	Н	н	H	i H	н	Н	H	
44 m 00 c																	_	<u>ო</u>	2	11	15	19	23	23	32.	37	42	47	52	57	62	67	72	11	82	'n	94	:

### STABILITY ANALYSIS

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<wo-05></wo-05>	
8.1:1.8	
1:2.3	
WL.193.5	
GN FLOOD W	
DESI	
INAL SCHEME	
Ü	
TRO DAM	

CALCULATION NUMBER	199	
CLE	140.000	(X)
-DO- (I-COCKDINATE)	191.000	(X)
SAFETY FACTOR (NORMAL CONDITION)	1.533	
-DO- (SEISMIC CONDITION)	1.533	
RESISTANCE MOMENT (TOTAL:NORMAL)	99232.	(TON*M)
-DO:SEISMIC)	99232.	(M*NOI.)
RESISTANCE FORCE (COHESION)	00.0	(HOL)
-DO- (FRICTION:BODY FORCE )	519.54	(HOH)
-DO- :WATER PRESSURE)	00.0	(NOE)
-DO- ( -DO- :PORE PRESSURE)	00.0	(NOT)
-DO- :EARTHQUAKE )	00.0	(TON)
SLIDING MOMENT (TOTAL: NORMAL )	-64710.	(HON*M)
-DO- ( -DO-:SEISMIC)	-64710.	(M*NOE)
SLIDING FORCE (BODY FORCE)	-338.80	(HOH)
	00.00	(HOH)
-DO- (EARTHQUAKE)	00.0	(NOE)

\* MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL) TRO DAM ORIGINAL SCHEME DESIGN FLOOD WL.193.5 1:2.3 & 1:1.8 <MO-05>

E	STIDING	9551	229	2011	6030	0001	3930	4.9	537	702	0224	1424	930	5237	842	578	260	3912	O)	444	494	5255	901	491	2078	544	938	8241	1325	290	-48338;	558
X N.A.M.T. O.M.E. MOME	RESISTANCE	937	27183	08066	25860	3918	62197	166	193	12	6840	514	6113	475	266	052	828	678	$\infty$	4396	612	106	575	6119	065	765	705	3304	244	5088	84708	961
DSAFETY	κÇ	0.7	20	37	94	S.	8	10	22	46	62	5	88	8.	77.	9.	S.	21	32	2	9.	7	8	8.	9,	3	š	. 6	હ	7	1.752	Ŗ,
нн	ı <u>}-</u> 4 }-	     H	<b>}-</b> -{	ы	H	ы	М	н	н	н	ы	<b>}~</b> 1	Н	H	Н	1~1	н	<b>;</b> 4	н	н	н	H	Н	н	1-4	Н	н	Н	Н	ы	н	н
E+	SL	9551	629	2011	6030	1000	930	ത	537	702	24	1424	330	337	342	378	260	312	<₩	144	194	55.5	901	93	3,6	544	4938	8241	1325	290	-48338.	58
S H C H C H C H C H C H C H C H C H C H	TANCE	9371	27183	08066	25860	3918	62197	991	193	126	6840	1514	113	475	266	352	328	678	9408	396	612	106	2575	17.0	065	765	7709	3307	924	80	84708.	96
SAFETY	ACTO	07	20	5	4	59	69	10	22	4	5	25	88	80	7	9	0	2	8	7	9.	7	8	9.	o,	9	5	ဖ	ú	ď	1.752	'n
нн	   	. H	н	H	H	ы	H	H	н	н	н	H	н	н	н	н	H	Н	H	Н	⊢	н	н	н	н	Н	н	н	1-1	н	⊢₁	Н
RADIUS		01.00	00	00.19	81.00	01.00	21.00	00:	00	21.00	51.00	71.00	00.1	91.00	00.10	21.00	41.00	61.00	91.00	01.00	11.00	31.00	51.00	73.00	81.00	11.00	21.00	41.0(	61.00	81.00	191,000	11.0(
PE CIRCLE NATE	≯	.00	.00	00.00	20.00	.00	60.00	.00	00.	00.00	20.00	40.00	00.0	00.	80.00	00,00	20.00	20.0	60.00	0.00	0.00	00.00	20.00	0.0	60.00	60.00	0	00.00	20.00	0.0	9	ŏ
SLIPPE C	×	0.00	00	0.00	0.00	00.0	0.00	0.00	00	0.00	00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0	0.0	0.00	0.0	00.00	00.00	00.00	00.00	00.00	100.000	20.0
н н	 		н	н	۱	н	ы	н	Н	н	Ĥ	Н	I1	H	н	Н		Ή	н	н	H	<u>;</u>	<b>}</b> }	Н	: H	н	Н	Н	н	H	. H	Н
NUMBER	; } ; !				_	_			٠.	~	~	_	10		_		20	80	13	18	23	8	33	38	ぜせ	47	S F	55	6	63	168	71

-59153.	-109524.	-160033.	-50009.	-82260.	-31639.	-69922	-128119.	-203306.	-64710.	-117103.	-38548.	-81851.	-146298	-235641.	-75416.	-147001.	
92179.	171639.	260156.	77767.	134295.	48939.	108835.	200367.	320162.	99232.	183725.	59587.	127276.	228533.	369436.	115650.	226773.	
1.558	1.567	1.626	1.555	1.633	1.547	1.557	1.564	1.575	1.533	1.569	1.546	1.555	1.562	1,568	1.533	1.543	
н	H	н	H	<b>;-</b> (	H	н	н	Н	н	H	H	н	н	ы	H	н	
-59153.	-109524.	-160033.	-50009.	-82260.	-31639.	-69922	-128119.	-203306	-64710.	-117103.	-38548.	-81851.	-146298	-235641.	-75416.	-147001.	
92179.	171639.	260156.	. 73777	134295.	48939.	108835.	200367.	320162.	99232.	183725.	59587,	127276.	228533.	369436,	115650,	226773.	
1.558	1.567	1.626	1.555	1.633	1.547	1.557	1.564	1.575	1.533	1.569	1.546		1.562	1.568	. 53	1.543	
н	ы	н	H	Н	; H	н	<b>1</b> -1	Н			н	H	н	ьч	н	₽⊣	
131.000	151,000	171.000	181,000	201,000	121.000	141.000	161.000	181,000	191.000	211.000	131,000	151.000	171,000	191.000	201.000	221.000	:
80,000	100,000	120,000	140,000	160,000	60.000	80.000	100.000	120.000	140.000	160,000	60.000	80.000	100.000	120.000	140.000	160.000	
120.000	120.000	120.000	120.000	120,000	140.000	140.000	140.000	140.000	140.000	140.000	160.000	160.000	160.000	160.000	160.000	T60.000	
н	н	H	H	<b>⊢</b> !	H	Н	н	Н	Н	Н	Н	ıн	}~{	ŀ−ì	Н	н	
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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* LIST OF INPUT DATA

TRO DAM FUTURE EXT. RESERVOIR FULL WL.209m 1:2,3 & 1:1.8 <mf-01></mf-01>	1:2.3 & 1:1.8 <mf-01></mf-01>
NUMBER OF NODAL POINTS	26
NUMBER OF DIFFERENT MATERIALS	, w
NUMBER OF ELEMENTS	17
NUMBER OF SURFACE LINES	7
NUMBER OF WATER POINTS	ທ
NUMBER OF PORE PRESSURE POINTS	0
ACCELERATION OF EARTHQUAKE	0.0500
THITTE WEIGHT OF WATER	1.0000

MATERIAL PROPATY

WEIGHT (WET) WEIGHT (SAT) ACC.FACTOR PORE.FACTOR 1.000 1.000 (I/M3) 1.80 2.23 2.23 1.80 (IM/I) 2.13 1.93 FRICTION (DEGREE) 36.0 30.0 40.0 36.0 COHESTON (T/M2) DATA OF SLIPPE CIRCLE TYPE 00000

OUTLINE OF GRID

---GROUP (2) -----230.000 230.000 100.000 X-COOR 100.000 -----GROUP (1)-----Y-COOR 20.000 20.000 140.000 x-coor -100.000 0.000 -100.000 NUMBER

160.000

60.000 60.000

Y-COOR

THE INTERVAL(X)	NUMBER TYPE ******* ****** *********************	RDINATE OF NODAL POINT	NT X-COORDINATE Y-COORDINATE	19.0	-40.5	14.900 -40.50	-122.900 -40.50	-190.750 -70.00	25.900 -67.00	-111,900 -67.00	-15.525 -79.50	9.525 -79.50	0 24.525 -79.50	1 30.525 -79.5	39,025 -71.00	3 -93,900 -54.00	4 -41,025 -54.00	6.00016.00	-16.00 -16.00	75.000	21,000 -16,00	9 222.900 -75.	0. 53,700 1	1 -104.977 -62.	2 -33,025 -62.00	3 -200.000 13.00	.200 13.00	5 41.537 8.00	
THE INTERVITE INTERVITE INTERVITE INTERVITE STOPPING PRING P	NUMBE	COORDINATE	POLNT	ed.	2	m	4	ഗ്	Q	7	ω	<b>ரு</b>			12	13	14	ក្ន	9 ( -I (	1.7	о Н	сц О	20	21.	22	23			

_ 1	19				ы	゙゙゙゙゙゙゙゙゙゙゙゙゙゙		13	m	14		<b>-</b> 4	œ	16	гH	17	20	20	۲ ا	1.8	26	20
NUMBER,	20	ER)			×	9	7	21	7	22	14	15	22	თ	9	10	17	∞ ⊢	11	12	12	മ പ
(NODAL	r-1	NUMBER	6 H	٠	C.j	ഗ	G	7		21.		Ø,	7.4	හ	15	Ø					<del>ارا</del> 8	
DATA (N	2	(NODAL	.5 26		н	<b>Q</b>	ঝ	თ	თ	13	. 7	r=1	13	٦ ک	Н	16					20.	
SURFACE	₹7'	LINE DATA	24 2	DATA	TYPE	7	ம்	7	8	ব্য	7	7	7	ന	ന	H	r-t	ო	ന	7	5	73
GROUND S	ហ	WATER LI	23	ELEMENT	ELEMENT	rd	2	ო	4	Ŋ	w	7	ထ	Ø	10	11	12	13	14	15	16	17

<u> </u>							• •		,							_		_										
FACTOR (SEISMIC		5.4	٠ دى	00.00	00.00	00.00	0	00.00	.54	.54	5.4	.54	.54	. 54	.54	4	₹,	.54	•	69.	69	Ó	69	69.	69.	. 69	00.	.34
E SAFETY (NORMAL)	ı	. 93	. 93	00.00	00.00	00.00	0	00.00	. 93	. 93	. 93	, 93	. 93	93	დ	. 93	. 93	. 93	1.930	. 93	93	φ, Ω	. 93	.93	. 93	83	00.	.51
GRA. OF SLOPE	1	0.435	. 43	00.	0	00.	00.	00.	. 43	.43	.43	43	43	0.435	.43	. 43	.43	.43	0.435	. 43	43	. 43	.43	, 43	.43	.43	00.	0.556
FRICTION G	ŀ	.83	.83	. 57	.83	.83	83	. 83	83	83	. 83	.83	. 83	.83	. 83	.83	83	.83	0.839	.83	83	.83	8	.83	.83	.83	57	8.
ACCEL	1	0.5	.05	.05	.05	.05	.05	.05	. 05	.05	.05	0.5	0.5	.05	0.5	0.5	.05	.05	0.050	0.5	0.5	0.5	.05	0.5	.05	0.5	.05	50.
WEIGHT (SAT)	1	37	.37	80	37	.37	.37	.37	.37	.37	.37	.37	37	37	.37	37	.37	37	2.370	37	37	.37	.37	.37	37	37	80	37
WATER	1		ij	H	۲ ۲	루	H I	۲,	딕	H	다 1 · ·	г <del>.</del> 1	г 1	7	r-1 1	,—I	t 1	ί.	<b>-</b> ~1	٦	Н	<b>~</b> -1	⊣	ᆏ	ੰਜ	⊣	⊣	-
MAT	0	8	2	Ŋ	~	N	7	8	N	7	<b>∾</b>	7	~	7	0	7	7	.7	7	7	8	7	8	.0	0	7	Н	7
OINATE (PERIOD)	90.75	-125.900	22.90	14.90	11.90	104.97	3.90	3.15	1.02	33.02	15.52	9.52	6.00	0.05	5.00	1.00	4.52	9:90	30.525	5.18	6.20	9.02	1.53	1.57	3.00	3.70	3.70	2.90
X-COORDINATE (START)	-200.000	Q)	25.9	22.9	40.00	റ	04.9	თ თ	Π.	41.0	3	S	ري. دي	$^{\circ}$	0.0	ί.	1.0	4	O	0	5	9	<i>ා</i>		u ;	3	3	.70
BLOCK	<del></del> 1		ო	乊	S	9	Ĺ	<b>ω</b>	<u>ه</u>	10	[]	12	r-1	114 All	П	1	r-1	18	<u>ი</u>	20	21	22	23	24	25	26	27	28

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* STABILITY ANALYSIS

\* MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM FUTURE EXT. RESERVOIR FULL W1.209m 1:2.3 & 1:1.8 <MF-01>

I NUMBER I		PPE CIRCLE INATE Y		ннн	SAFETY FACTOR	S T A T I C M O M E RESISTANCE	N T SLIDING	ннн:	SAFETY	DYNAMIC MOMEN RESISTANCE	T SLIDING
1	00.001-	00.0	2.00	i    -  -  -  -	74	169	87	     H   H	. 03	264	010
S	-100.00	0.00	Φ.	Н	ľ	20597.	13	н	1.770	19933.	11263.
	-100.00	0.00	02.00	ы	.16	093	892	H	.70	955	314
,—i	-100.00	00.0	2.00	н	17.	175	392	н	.67	929	13
4	-100.00	00.00	42.00	 H	.08	1528	526	н	. 65	1127	715
<u></u>	-100.00	20.00	62.00	1-1	90	376	03	н	. 64	766	0196
0	-100.00	40.00	82,00	<b>⊢</b> 1	.01	4487	127	н	. 60	3633	701
e	-80.00	00.0	2.00	н	.12	716	746	Ħ	. 68	589	129
9	-80.00	0.00	2.00	H	.09	942	307	Н	. 66	702	022
0	-80.00	00.0	2.00	н	В	776	9	H	. 58	904	201
4	-80.00	0.00	12.00	н	96.	052	039	H	.58	904	456
~	-80.00	00.00	42.00	<b>1</b> —1	76.	3943	2134	H	. 56	3154	4759
	-80.00	0.00	2.00	н	.97	273	860	H	. 56	287	410
S	-80.00	40.00	72.00	н	.87	6639	874	H	. 50	6062	90
0	00.09-	00.0	2.00	н	12	151	012	н	. 68	077	234
4.	-60.00	0.00	2.00	н	.09	473	138	H	99.	317	599
တ	-60.00	0.00	2.00	H	.07	957	838	H	.64	7678	65
N	00.09-	0.00	12.00	ы	و	297	162	н	. 58	878	7480
Q	-60.00	00.00	32.00	ı~i	89	6570	740	н	50	6048	699
Ø	-60.00	0.00	2.00	н	.97	568	33	н	. 58	7293	60
_	-60.00	40.00	62.00	н	80	713	940	н	. 45	361	146
CI.	-40.00	0.00	2.00	H	122	101	519	н	. 68	063	633
7	-40.00	0.00	٥.	н	80.	670	281	н	65	573	556
<i>c</i> 1	-40.00	0.00	2.00	н	.01	060	521	н	09.	914	058
-	-40.00	0.00	0.20	H	82	627	177	н	45	30.5	079
02	-40.00	00.00	22.00	н	8,	950	952	Н	. 45	625	294
80	-40.	120.000	132.000	н	1.809	41845.	23128.	н	1.467	40422.	27559.
4	-40.00	40.00	52.00	н	8.	316	500	н	, 45 55	126	218
120 I	-20.00	0.00	2.0	н	7	O	9	н	67	4	67
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31034.	18726.	31832.	46093.	60212.	19857.	7174.	18416.	10074.	16957.	23932.	29908.	34842.
49247.	28169.	45375.	74656.	113694.	29977.	11761.	28763.	13973.	26044.	45751.	67840.	91415.
1.587	1.504	1.425	1.620	1.888	1.510	1.639	1.562	1.387	1.536	1.912	2.268	2.624
н	H	Н	H	H	H	H	н	. <b>;⊢</b> t	H	н	<u></u>	н
24661.	15480.	26177.	37488.	48201.	16594.	5578.	14581.	8406.	13939.	19275.	23459.	26503.
50598.	29127.	46748.	76738.	116543.	30756.	12046.	29541.	14387.	26701.	46758.	69127.	92934.
2.052	1.882	1.786	2.047	2.418	1.853	2.159	2.026	1.711	1.916	2.426	2.947	3.507
H	н	Н	н	н	Н	ы	н	н	н	ы	ы	Н
62.000	72.000	92.000	112.000	132.000	142,000	32.000	52.000	62.000	82.000	102.000	122.000	142,000
40.000	60.000	80.000	100.000	120.000	140.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000
-20.000	-20.000	-20.000	-20,000	-20.000	-20.000	00000	0.000	0.000	0.000	0.000	0.000	0.000
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25	32	38	44	120	157	63	169	177	184	191	198	205

### STABILITY ANALYSIS

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ESERVOIR FULL WL.209m 1:2.3 & 1:1.8 <mf-01></mf-01>			
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TRO DAM FUTURE	- 1		
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	CALCULATION NUMBER	160		
	SLIPPE CIRCLE (X-COORDINATE)	200.000	(W)	
	-DO- (Y-COORDINATE)	140.000	(W)	
	-DO- (RADIUS)	182.000	(M)	
	AND THE CANADA TRANSPORT CONTRACTOR AND THE CANADA	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (		
	TOR (NORMAL	L.533		
	-DO- (SEISMIC CONDITION)	1.366		
٠				
	RESISTANCE MOMENT (TOTAL: NORMAL )	84668.	(M*NOL)	
	-DO- ( -DO-:SEISMIC)	82351	(M*NOH)	
****	RESISTANCE FORCE (COHESION)	00.0	(NOL)	
	-DO- (FRICTION: BODY FORCE )	465.21	(TON)	
٠	-DO- ( -DO- :WATER PRESSURE)	00.0	(NOF)	
	-DO- :PORE PRESSURE)	00.0	(NOI)	
	-DO- :EARTHQUAKE )	-12.73	(TON)	4.5
	SLIDING MOMENT (TOTAL: NORMAL )	-55220.	(HON*M)	
	-DO- ( -DO-:SEISMIC)	-60265.	(TON*M)	
	SLIDING FORCE (BODY FORCE)	-303.40	(NOL)	
	-DO- (WATER PRESSURE)	00.0	(NOL)	
	-DO- (EARTHQUAKE)	-27.72	(NOL)	

TRO DAM FUTURE EXT. RESERVOIR FULL WI.209m 1:2.3 & 1:1.8 <MF-01>

DXNAMIC	SAFETY MOMENT FACTOR RESISTANCE SLIDING	78796		.581 2/0521/11	.825 486452666	.078 727733502	.323 9871142	) 125286493	.495 106306710	10 406422882	.552 788945081	.733 1233727118	.922 17207389	.805 415812303	.461 1316035007	.393 51201367	.427 1053777385	17255411206	.682 24782714730	.592 796935007	.451 15870610937	.391 627464511	.398 1266379060	.438 21624515038	.533 32024420889	.461 11720180	.443 18844213058	89 757805456	.395 1478001	
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	N H SLIDING	100	144	545	-23646	050	-36350	149	S		5	358	892	043	-82032	361	740	014	208	514	996	127	28	713	892	300	90	-49924	-96863	
STATIC	z S S	1 0		769	960	400	0016	9.	060	174	079	598	8	240	135044.	26	819	176766	328	155	28	447	3011	C)	811	024	34	787	$\infty$	
	SAFETY FACTOR	10	9	7.9	90.	.42	.75	90	. 68		7.5	98	.22	.07	9.	3.	છ	1.742	6	8.		ŝ	'n	9	~	ø.	~,	Ō	1.568	
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	RADIUS	10		2.00	02.00	22.00	42.00	00	00.	00.	12.00	32.00	2.00	62.00	ζ.	02.00	22.00		62.00	72.00	02.0	12.0	32.0	52.0	72.00	82.0	12.00	00	42.0	
	NATE Y		3	00.	00.00	20.00	40.00	00.	00.0	00.0	00.00	20.00	40.00	0.00	90.09	00.0	00.00	ŏ	40.00	60.00	0.00	0	00:00	20.00	0.0	60.00	0.0	80.000	0	
STIPPE	COORDI	100		00.00	00.00	00.00	00.00	00.00	20.00	20.00	20.00	20.05	20.00	20.05	0.00	40.00	40.00	40.0	40.00	40.00	60.00	60.00	60.00	60:00	60.00	60.00	80.00	180.000	80.00	
ы	нн	H-	4	H	н	н	<b>}-</b> 1	н	н	Н	ы	н	Н	<b>)~</b> i	н	н	ы	ы	ы	) <del>-</del> -I	H	Н	.H	H	н	H	H	ĖΙ	H.	
	NUMBER		) (	m H	20	27	34	41	46	52	58	64	70	77	81	98	б Г	96									133	136	139	

-180582.	-266657.	-107544.	-28176.	-65160.	-122698.	-204913.	-60265.	-126783.	-34805.	-76962.	-141017.	-231087.	-70805.	-144060.	-82509.	-162824.
- LO	385565.	149479.	38840.	90384.	7098	286578.	82351.	174096.	47944.	106641.	196274.	322769.	96756.	197776.	112748.	223491.
1,401	1,446	1.390	1.378	1.387	ന	ო	പ്	1.373	ω,	ന	ന്	ω,	ო.	$\sim$	1.367	സ്
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-165097.	-243039.	-98383	-25797.	-59625.	-112228.	-187368.	-55220.	-116119.	-31869.	-70431.	-128999.	-211325.	-64878.	-131946.	-75601.	-149134.
5	395727.	153601.	992	N	7569	44	995	Q	928	959	168	63	947	0331	159	O.
~	. 62	1.561	S	1.558	'n	1.571	ı.	1.541	S	S	ι.	n,	ι	1.541	1.533	.54
ы	Н	H	н	H	н	H	н	ы	Н	ÉН	H	H	н	н	ы	H
162.000	182.000	192.000	112.000	132.000	152.000	172.000	182.000	202.000	122.000	142.000	162.000	182.000	192.000	212.000	202.000	222.000
120.000	140.000	160:000	60.000	80.000	100.000	120.000	140.000	160.000	000:09	80.000	100.000	120.000	140.000	160.000	140.000	160.000
180.000	180.000	180.000	200.000	200.000	200.000	200.000	200.000	200.000	220,000	220.000	220.000	220.000	220.000	220.000	240.000	240.000
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TRO DAM FUTURE EXT. RESERVOIR FULL WL.209 (U/S) 1:2.5 <MF-02>

26	S	17	7	ഹ	0	0.0500	1.0000
SER OF NODAL POINTS	SER OF DIFFERENT MATERIALS	SER OF ELEMENTS	SER OF SURFACE LINES	SER OF WATER POINTS	SER OF PORE PRESSURE POINTS	ELERATION OF EARTHQUAKE	TE WEIGHT OF WATER
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	ACCE	CIND

MATERIAL PROPATY

FEBREAR ROCESTE

ACC.FACTOR PORE,FACTOR	0,000	0,000	0.000	0.000	000.0	
ACC.FACTOR	1.000	1.000	1.000	1.000	1.000	٠
WEIGHT(SAT) (T/M3)	1.80	2.37	2.23	2.23	1.80	
WEIGHT(WET) (T/M3)	1.72	2.13	1.93	1.93	1.72	
FRICTION (DEGREE)	30.0	40.0	36.0	36.0	30.0	
COHESION (I/MZ)	0.0	0.0	0.0	0.0	0.0	
[1] (2) (2) (4)	. 0	0	0	0	0	,
	<del>, -1</del>	7	က	ゼ	ŧΩ	

DATA OF SLIPPE CIRCLE

OUTLINE OF GRID

NUMBER	GROUP	(1)	GROUP	(2)
:	X-COOR	Y-COOR	X-COOR	Y-COOR
н	-100.000	20.000	000.0	0.000
7	000 0	20.000	0.00	000.0
<u>ო</u>	000.0	140.000	0.000	0.000
゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙	-100.000	140.000	000.0	0000

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.2005+01)	* * * * * * * * * * * * * * * * * * *																						
0.0 0.0 0.0 5.0 .000E-01)X+(-6.2	* * * * 0.0 * *																						
20.0 20.0 10.0 5.0 X=( 0.000E	******* -70.0 -62.0	H 3	<	00	0	00	0	. 0	0	. 0	<b>5</b> C	. 0	.0	0.0	0 0	0	0	. 0	0	0	.00	. 0	0
ACE	** 1108.0 133.0	Y-COORDINATE	€ (₹	140.00(	40.50	140.50	7	7.00	ა.	თ.	-79.500		4.	-54.000	် မ	•	Ġ	n,	ი.	2.0	2.0	Ō	13.00
L(X)	(M et et	X-COORDINATE	(M)	-101.250	23	-131.000 -198.850	34.00	0	w.	υ, ı	30.525	39.525	-102.000	-41.025	0.00.0	15.000	21.000	226.700	5	3.07	33.0	0	39.348
INTERVA INTERVA INTERVA PPING HE RT LINE	βĞ		- 1 - 1 - 1	1 (2)	m	4 N	9	۲		<b>م</b> (	) L			4 n	, 9 1 1	17	18	О. П	20	21		23	24
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8 -71	NUMBER	20	3ER)			×	•	7	21	~	다	<b>₽</b>	15	22	Ø	9⊺	10	را ا	8 H	H.	12	12	19	
43	(NODAL	Т	L NUMBER)	19		Ŋ	Ŋ,	Ø	~	13	22	73		덕 (-)	82	15	മ	9 7	17	10	근	18	26	
44.1	DATA (	3 2	(NODAL	5 26	٠	н	4	প	m	M	21	7	~1	13	15	: 	9 1	<b>-</b> !	20	17	- 18	20	20	
	SURFACE	4	TE DATA	24 2	DATA		7	ιΩ	2	7	4	7	~	7	m	ო	<b></b> -i	-	<u>რ</u>	ຕາ	2	63	7	
25 26	GROUND ST	ιc	WATER LINE	23	ELEMENT	ELEMENT	Н	7	ო	4	ហ	S.	7	ω	თ	10	11	12	13	14	2	16	17	
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TRO DAM FUTURE EXT. RESERVOIR FULL WL.209 (U/S) 1:2.5 <MF-02>

FACTOR (SEISMIC)	1	4	.54	0.00	00.	00.00	00.00	00.00	.66	.66	.66	99.	Ø	1.665	.66	99.	. 66	. 66	. 66	.82	.82	.82	ω,	. 82	1.827	.82	100.000	Z,
(NORMAL)	į	9	.93	00	0.00	00.00	00.00	00.00	60	90.	.09	90	0.0	2.098	0.0	.09	.09	.09	.09	0.0	90.	60,	Ð	.09	0	Q)	00.	H
OF SLOPE	τ			00.		00.	0							0.400		.40		.40	.40	.40	.40	0.400	.40	. 40	40	.40	0.000	. 55
GRA																												
FRICTION		83	83	.57	83	.83	83	83	83	.83	.83	83	.83	0.839	.83	.83	.83	.83	83	83	83	.83	83	83	83	ന	.57	ന
ACCEL	ŧ	0.5	.05	.05	.05	0.5	.05	0.5	.05	.05	.05	.05	0.5	0.050	.05	.05	.05	.05	0.5	0.5	.05	ഗ	.05	.05	0.5	0.5	0.050	0.
WEIGHT (SAT)		37	37	∞.	.37	.37	.37	37	ω 7	.37	.37	.37	37	2.370	.37	.37	.37	.37	37	37	.37	.37	.37	.37	37	.37	.80	.37
WATER	ı	H	ਾ ਜ	근데 다	<del>ار</del> ا	<del>г</del> і	<u>1</u>	<b>⊣</b> 1	덕	디	-	7	디	H	-		터	۲ آ	<del> </del>	<del>,</del> 1	႕	 	H	r-I	ਜ਼	Н	<del></del>	н,
MAT	0	7	7	ĺΩ	Ä	7	~	7	7	7	~	7	~	~	~	7	2	2	C)	0	~	7	7	.7		7		7
(PERIOD)	98.85	134.00	131.00	23.00	20.00	13.07	02.00	01.25	41.02	3.02	. 52	9.52	6.00	-0:0:0-	5.00	1.00	4.52	0.52	2.50	8.32	9.34	9.52	4.14	4.18	00.	7.50	57.500	6.70
X-COORDINATE (START) (PERI	0.00	98.85	34.00	131.00	23.00	20.00	13.07	102.00	01.25	-41.02	3.02	15.52	9.52	.000*9-	0.05	5,00	1.00	.52	0.52	2.50	8.32	9.34	9.52	4.14	4.18	00.	.50	7.50
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### STABILITY ANALYSIS

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## TRO DAM FUTURE EXT. RESERVOIR FULL WL.209 (U/S) 1:2.5 <MF-02>

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	CALCULATION NUMBER	178		
	SLIPPE CIRCLE (X-COORDINATE)	0.000	(W)	
	-DO- (Y-COORDINATE)	60.000	(M)	
	-DO- (RADIUS)	62.000	(M)	
		0		
	SAFETY FACTOR (NORMAL CONDITION)	1.88T		
	-DO- (SEISMIC CONDITION)	1.509		
		1	- 1	
	RESISTANCE MOMENT (TOTAL:NORMAL )	13511.	(W*NOH)	
	-DO- ( -DO-:SEISMIC)	13124.	(₩×NOH)	•
_	RESISTANCE FORCE (COHESION)	00.00	(NOL)	
_	-DO- (FRICTION: BODY FORCE )	587.87	(TON)	
	-DO- ( -DO- :WATER PRESSURE)	28.15	(NOI)	
	-DO- ( -DO- :PORE PRESSURE)	-398.09	(TON)	
	-DO- :EARTHQUAKE )	-6.24	(TON)	
		:		
	SLIDING MOMENT (TOTAL:NORMAL )	7182.	(HON*M)	
	-DODO-:SEISMIC)	8699.	(HON*M)	
	SLIDING FORCE (BODY FORCE)	216.74	(TON)	
	-DO- (WATER PRESSURE)	-100.91	(TON)	
	-DO- (EARTHQUAKE)	24.47	(TON)	

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TRO DAM FUTURE EXT. RESERVOIR FULL WI.209 (U/S) 1:2.5 <ME-02>

	E		37	743	m)	106	76	1219	155618.	47	93	655	9	5172	702	082	40	817	860	マ	106847.	405	4,		9	7	985	71584.	7
DYNAMIC		RESISTANCE	522	124	52	011	3644	638	71.66	542	360	838	122	5752	016	7958	560	052	629	502	7357	229096.	1117	257	874	374	904	0.2.6	059
	SAFETY	FACTOR	.81	.79	-	.76	.75	.75	.74	.83	.71	.71		. 69	.67	. 65	. 82	.79	.77	.70	. 62	1.631	.57	ω.	. 78	.76	.58	. 54	. 63
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	E Z	STIDING	75	410	25399	146	314	26	999	96	48	35	441	2293	868	849	129	279	941	203	626	112715.	783	57	306	471	043	57725.	987
STATIC	E V O V	RESISTANCE	571	226	746	311	4103	300	8085	687	407	937	299	6564	012	8564	642	218	915	583	7879	235688.	1478	297	596	553	146	344	9
	SAFETY	FACTOR	32	28	26	.24	.23	.22	.21	34	.17	-1	.17	÷.	. 14	<u></u>	8	.28	.26	4	6	2.091	8	.32	.27	.24	0	ġ.	Ξ.
н	Ħ	H }	      -   -	<u>-</u> -1	ы	Ы	Н	·	ы	ы	 <del> -</del> {	н		н	H	ĭ	н	H	н	н	ы	Н	H	H	H	H	ıн	Н	н
	RADIUS		2.000	2.000	02.000	2.000	42.000	62.000	82.000	.000	2.000	2.000	12.000	42.000	000.	72.000	2.000	2.000	2.000	02.000	32.000	0	62.000	2.000	2.000	2.000	02.000	000.	32.000
SLIPPE CIRCLE	NATE	≯	00.00	0.00	00.	0.00	00.00	00.0	40.00	00.0	00.0	0.00	0.00	00.00	0.00	40.00	20.00	0.00	0.00	0.00	00.00	120.000	40.00	0.00	0.00	0.00	0.00	00.00	0-0
SLIP	COORDINATE	×	00.00	00.00	-100.000	00.00	00.00	0.00	00.00	00.0	0.00	00.	0.00	0.00	0.00	0.00	0.00	0.00	00	0.00	60.00	-60.000	00.	00	0.00	00.0	00.0	00.0	0
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39753. 2727.	30066.	17282.	30122.	43784.	59101.	72533.	6893.	17208,	8699.	15550,	22799.	29478.	35184.
61323.	51242.	29093.	45593.	69295.	109257.	152434.	11964.	27283.	13124.	23692.	41024.	63113.	86929.
1.543	1.704	1.683	1.514	1.583	1.849	2.102	1.736	1.586	1,509	1.524	1,799	2,141	2.471
нн	н	н	Н	н	н	н	н	<b>}-1</b>	н	н	H	н	H
32792.	23531.	14058.	24506.	35278.	47153.	56846.	5306.	13428.	7182.	12737.	18394.	23269.	27054.
63197. 5079.	52531.	30042.	46917.	71144.	111989	155878	12233.	27947.	13511.	24290.	41948.	64359.	88439.
1.927	2.232	2.137	1.915	2.017	2.375	2.742	2.306	2.081	1.881	1.907	2.281	2.766	3.269
нн	ы	Н	H	н	н	н	н	н	н	H	H	ы	н
152,000	62,000	72.000	92.000	112,000	132.000	152.000	32,000	52.000	62.000	82.000	102.000	122.000	142.000
140.000	40.000	000-09	80.000	100.000	120.000	140.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000
-40.000	-20.000	-20,000	-20.000	-20.000	-20.000	-20.000	000.0	000.0	0.000	000.0	000.0	0000	000.0
нн	Н	н	<b>⊱-</b> †	⊬	H	Н	ы	Н	н	н	н	Н	H
117	128	135	141	147	153	159	165	171	178	185	192	199	206

\* LIST OF INPUT DATA

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* * * *		<mf-0< td=""><td>1</td></mf-0<>	1
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******		TRO DAM FUTURE EXT. RAPID DRAWDOWN WL.155.5 1:2.3 & 1:1.8 <mf-03></mf-03>	
****		RAPID	
***		EXT	
******		FUTURE	
* * * '		AM	1
*	. i.	Ö.	1

27	'n	7.7	7	10	. 0	0.0500	1.0000
NUMBER OF NODAL POINTS	NUMBER OF DIFFERENT MATERIALS	NUMBER OF ELEMENTS	NUMBER OF SURFACE LINES	NUMBER OF WATER POINTS	NUMBER OF PORE PRESSURE POINTS	ACCELERATION OF EARTHQUAKE	UNITE WEIGHT OF WATER

MATERIAL PROPATY

	TYPE	COHESION (T/M2)	FRICTION (DEGREE)	WEIGHT (WET) (T/M3)	WEIGHT (SAT) (T/M3)	ACC.FACTOR	WEIGHT(SAT) ACC.FACTOR PORE.FACTOR (T/M3)	
Н	0	0.0	30.0	1.72	1.80	1.000	0.000	
2	0	0.0	40.0	2.13	2.37	1.000	0.000	
m	0	0.0	36.0	1,93	2.23	1.000	000.0	
ধ	0	0.0	36.0	1.93	2.23	1,000	0.000	
'n	0	0.0	30.0	1.72	1.80	1.000	0.00.0	
DATA OF SLIPPE	PE CIRCLE							
OUTLINE OF GRI	SRID							
			,	(				
NUMBER	GROUP (1)	(1)	A9	GROUP (2)				
	X-COOR	Y-COOR	X-COOR	R Y-COOR				
<del></del> 1	-100.000	20.000	100.00					
~	000.0	20,000	230.000	000.09 0				
m	0.000	140.000	230.00					
4	-100.000	140.000	100.000					

0 0 0 0 0 0 = -01) x+ (-6.200E+01)	******																												
20	** **** *******************************		Y-COORDINATE	(M)	•	0.50	0.50	0.50	90.	Ļ.	<i>.</i>	o,	•	-79.500	ď	ä	4.00	4.00	9.	16.00	6.00	6.00	5.00	•	2.00	0	40.50	. 50	13.000
INTERVAL(X)	NUMBER TYPE *	ATE OF NODAL POINT	X-COORDINATE	( <del>M</del> )	3.7	გვ	24.	22.5	( )	25.9	11.5		<u></u>	٠, در	<u>.</u>	$\sim$	_;. ⇔	<u>.</u>	~.	٦.	٦,	ેં, ત્યાં	99	.70		3.02	00.	4.50	36.200
THE INTERV THE INTERV THE INTERV STOPPING H START LINE	DN	COORDINATE	FOINT		н	2	m	4	ις	Q	7	œ	თ	10	TH	12	13	14	S S		17	1.8	1.9	20	21	22	23		25

				19					-	٠	-				-							
		•	:	27			•											٠		-		٠.
				56																		
8.000	€	139		25		'n	₹"	ო	<u>ლ</u>	ന	44	15	-1 00	16		17	20	20	18	7 7 8	27	20
1.1.	NUMBEI	20	ER)	16		×	Ö	7	21.			4.1					17					
537	(NODAL NUMBER		L NUMBER	24		L)	ιΩ ·	ဖ			21	13	7 4		15	თ	91	77	10	11	78	27
41.5	DATA (	3	(NODAL	3 2		н	ব	4	ო	m	13	0.0		52		9 ∏	ं. ल	50	17	18	20	50.
	SURFACE	4	E DATA	ধ	DATA	TYPE	8	Ŋ	(1	7	4	0	4 C	ന	ო	Н	ᆏ.	<del>რ</del>	m	α.	7	7
26	GROUND SU	ı L	WATER LINE	23	ELEMENT D	ELEMENT	H	7	ო	4	w	ω (	~ 00	o			12					
			-		• • • •							П,	Α -	83	3							٠.

TRO DAM FUTURE EXT. RAPID DRAWDOWN WL.155.5 1:2.3 & 1:1.8 <MF-03>

BLOCK	X-COORDINATE (START)	DINATE (PERIOD)	MAT	WATER	WEIGHT (SAT)	ACCEL	FRICTION	GRA. OF SLOPE	E SAFETY (NORMAL)	FACTOR (SEISMIC)
н	0.00	90.75	O	ı	1	ι	ı		i	3
7		-125.900	7	덖	37	0.5	83	4	9	<b>5</b>
m	25.9	22.90	0	1	37	0.5	83	4.	93	54
<b></b>	22.9	14.90	5	딕	80	05	57	00	00.00	00.00
ιń	14.9	11.90	7	7	37	0.55	83	00	00.00	00.00
Q	11.9	04.97	N	를 .I	37	0.53	83	00	00.00	00.00
۲	04.5	93.90	7	- -	37	0.5	ဗ	0.000	00	00
∞	93.5	93.15	7	ij	37	0.5	83	00	00.00	00.00
თ	ω.	41.02	7	r-t	37	0.5	83	2.	93	8
10	7.	33.02	7	<sub>[</sub> -4	33	0.5	œ	2.	9	9
11	33.0	8.58		г×f	3	0.0	8	4.	8	69
12	ω,	5.52	8	p-d	37	0	8	4.3	93	8
_	5.	9.67	Ø	<del></del> 1	37	0	8	4	93	9
-	6	52	7	H	37	0	8	4.	9	9
1.	٠,	8	0		5	0	60	4	9	9
	9.	4.50	8	러	9	ö	9	47	င္ပ	9
-	47	0.05	0	, <b>-</b> -	5	8	8	4.	g	9.
18	~	ĕ	7	H	£.	0	8	4	6	9
19	5.	1.00	7	, e-1	9	Ö	æ	4	6	9
20.	-	4.52	7	႕	6	Ö	œ	4	0	8
21	4	0.52	7	<b>-</b> -1	6	ö	ώ	4	0,	9
22	0	6.20	N	,-4	ų,	ö	ω	4	9,	39
23	9	9.03	~	႕	m	Ö	ω	4	9	9
24		5	01	⊣	'n	Ö	æ	4	6	8
25	,	1.5	8	Н	'n	Ö	ω	4	0	9
26	-	ŏ	7	-	'n	ö	80	4	6	Š
27	en.	7	0	<b>←</b>	'n	ö	ထ်	7	9	ĕ
28	43.700	ř.	М	-	1.800	0.050	0.577		100.000	100.000
53	'n	2.9	0	н	μ,	Ö		5	5	ň,
										-

### TRO DAM FUTURE EXT. RAPID DRAWDOWN WI.155.5 1:2.3 & 1:1.8 <MF-03> (HANOL) (MOST DANGEROUS SLIPPE CIRCLE) (NORMAL) NOL NOL TON) TON) (NOL) $\widehat{\Xi}$ 0.000 40.000 52.000 1.506 907.88 -191.91 00.0 38118. 25308. 28865. 37365. STABILITY ANALYSIS ... RESISTANCE MOMENT (TOTAL:NORMAL)....... SLIDING MOMENT (TOTAL:NORMAL ).......... (Y-COORDINATE)..... SAFETY FACTOR (NORMAL CONDITION) ......... ( -DO-:SEISMIC) ..... PORE PRESSURE) ... (SEISMIC CONDITION)....... -DO- :WATER PRESSURE) (COHESION).......................(FRICTION:BODY FORCE : EARTHQUAKE (RADIUS).... SLIPPE CIRCLE (X-COORDINATE) .... -DQ--00-RESISTANCE FORCE 1001 -00--00--00--00g-

\*

(W\*NOL

TON (NOL) (NOL)

473.24

SLIDING FORCE (BODY FORCE)........

(WAIER PRESSURE) ...... (EARTHQUAKE).......

( -DO-:SEISMIC) .....

13.46 68.40

MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM FUTURE EXT. RAPID DRAWDOWN WL,155.5 1:2.3 & 1:1.8 <MF-03>

	) 	SETDING	0768	7670	265546.	7221	509	852	435	163522.	757	7051	1186	5953	1280	116	1547	1078	9556	640662.	5750	1180	7117	3206	3161	211	8028	0807	145516.	791	
DYNAMIC	Zi (	RESISTANCE	9387	94	534	262	854	220	980	<u>8</u>	534	178	624	3187	7077	1320	1527	7260	5487	1180	1151	1426	5650	1277	000	354(	6932	513(	148.	8	
	SAFETY	E I	8.	.74	1.708	64	53	4.6	44	.72	.65	.51			4.5		9.	ñ	3,	4,	က်	4	ŵ	ઌ૽	ň	ιŲ	ď	4,	4	ທ	
н	н	н	!       स्त	н	н	н	н	н	н	H	н	н	н	н	н	H	н	н	Н	н	H	н	н	н	н	н	н	Н	Н	н	
		SLIDING	0.5	1857	225592.	829	511	5008	3508	ന	1990	1786	4139	7854	9976	329313.	8392	9352	2923	52	4005	8767	)24	4321	36	0695	5,0	578	ന	141	
STATIC	М О М	RESISTANCE	9777	744	463235.	2548	7459	5368	7721	87	3388	322	3263	368	741	345	5164	3268	3023	3205	4627	2072	5970	3049	1295	8879	7516	543	1.936	8964	
	SAFETY	ACTO	! ~!	1,	05	96	.82	7.3	7.1	.07	.97	8.	99.	. 64	.72	7.	6	9	3	89		1,709	7	5,	ω	۲-	~	9	-	٦	٠
н	H	HF	)    - 	н	н	н	H	Н	Н	н	н	H	H	н	н	ы	Н	н	Н	H	н	H	н	н	H	Н	н	н	1-1	H	
	RADIUS		2.00	02.00	122.000	42.00	62.00	82.00	02.00	2.00	02.00	22.00	42.00	62.0	82.00	00	82.00	02.00	22.00	2.0	32.00	52.0	62.00	82.00	2.00	92.00	12.00	22,00	2	00.	
PE CIRCLE	(L)	X	20.00	00.	0	0.00	00.00	00	40.00	0.00	0.00	00.0	0.00	00.00	0.00	40.00	0.00	0.00	0.00	0.0	00.00	0.0	40.00	20.00	0.0	0.0	0.0	00.00	20.00	ŏ	
SLIPPE	COORDINAT	×	00.00	00.00	,0	00.00	00.00	00.00	00.00	80.00	00.0	00.0	00.0	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.0	0.00	ŏ	0.00	0.0	ŏ	0.0	0	0	0.0	
н	H	) 	       H	H	Н	н	, H	Н	н	Н	Н	Н	<b>)-</b> I	H	М	н	Н	Н	H	:   <b>}⊣</b>	1-4	Н	н	Н	Н	: }-1	H	1 . <del>] -</del>	; ; }-	H	:
	NUMBER		   r-1 	m	ဖ	σ	12	7.5	38	27	24	27	31	35	<u>გ</u>	45	47	51	S	50 10	99	. 71	77	78	80	ָה ה	96			114	

120218.	112309.	83397.	45688.	66253.	86686.	25108.	35498.	28865.	13588.	22707.	31926.	40140.	47304.
180576.	163165.	116226.	64688.	97979.	141134.	39923.	47214.	37365.	19869.	33848.	55586.	79764.	105435.
1.502	1.453	1.394	1.416	1.479	1.628	1.590	1.330	1.294	1.462	1,491	1.741	1.987	2.229
<b>1</b> -4	H	ŀЧ	н	н	H	H	н	Ĥ	H	н	н	H	H
104375.	98419,	73426.	40511.	58256.	75411,	22062	30817.	25308,	12059.	19884.	27520.	33996.	39324.
183813.	166609.	118710.	65964.	99965	143884.	40655.	48255.	38118.	20254.	34476	56564.	81022.	106925.
1.761	1.693	1.617	1.628	1.716	1,908	1.843	1,566	1.506	1,680	1.734	2.055	2,383	2.719
н	ы	Н	H	н	H	Ħ	Н	H	; H	H	н	H	ы
62.000	72.000	82.000	92.000	112.000	132.000	142.000	42.000	52.000	62.000	82.000	102.000	122.000	142.000
20.000	40.000	60.000	80.000	100.000	120.000	140.000	20.000	40.000	60.000	80.000	100.000	120.000	140,000
-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	0.000	0.000	0.000	0.000	0.000	0.000	00000
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7	년 :	H	80	7	. 0	7	2	്ഗ	7	4	્ત ા		ر ر
검	12	13	13	Ų.	15	15	16	169	17	9	ς,	4	20

### STABILITY ANALYSIS

\* (MOST DANGEROUS SLIPPE CIRCLE) (NORMAL)

TRO DAM FUTURE EXT. RAPID DRAWDOWN WL.155.5 1:2.3 & 1:1.8 <mf-03></mf-03>		
£ 1:1.	1	160
1:2.3	] [ [ [	:
WL.155.5		
DRAWDOWN		CALCULATION NUMBER
RAPID	 	
EXT	 	MBER.
FUTURE	1	HON NOI
DAM	1	CULAI
TRO	[   	CAL

SLIPPE CIRCLE (X-COORDINATE)	200.000	
(Y-COORDINATE)	140.000	$\mathbb{R}^{\mathbb{R}}$
FACTOR (NORMAL CONDITION)	1.533	
RESISTANCE MOMENT (TOTAL:NORMAL)	84668. 82351. 0.00 465.21 0.00	(TON*M) (TON) (TON) (TON) (TON)
( ~DO~ :EARTHQ	-12.73	(TON)
SLIDING MOMENT (TOTAL:NORMAL)	-55220. -60265. -303.40 0.00	(TON*M) (TON*M) (TON) (TON) (TON)

MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM FUTURE EXT. RAPID DRAWDOWN WI.155.5 1:2.3 & 1:1.8 <MF-03>

		DNIGI	1	707	711	999	502	249	92	108	882	081	118	952	303	007	674	385	206	730	0071.	937	5	090	038	889	020	058	456	591	
	ti Z	SL	1	-4	1	-2	(F)	-4	14	1	-2	<u>।</u>	1-	8	-2	9	<u>က</u>	17	177		ا گ	-10	14	61	-15			€ 1	<u>ن</u> ا	-10	•
DYNAMIC	E W O W	RESISTANCE		879	705	ø	277	87I	125538,	630	64	8	337	20	158	160	120	0537	255	4782	79693,	870	274	266	624	2024	1720	8844	578	780	
	SAFETY	FACTOR		.67	.58	. 82	0.7	.32	.54	4,9	.41	. 55	73	. 92	.80	.46	39	. 42	54	68	1.592	.45	39	9	43	.53	. 46	. 44	.38	φ. φ.	•
Н	ы	н	I-	H	Н	H	H	н	н	ы	н	ы.	н	н	н	н	н	1-1	ы	Н	н	н	н	н	H	н	ы	Н	н	H	i
	E Z	SLIDING		-42254.	545		0.5	635	-41443.	45	633	597	358	92	043	203	361	740	0146	208	-45146.	996	127	284	713	8925	300	906	992	68	6
	M O M	RESISTANCE		054	769	960	400	0016	719	0901	174	079	598	30	240	504	261	0819	676	5328	81551.	288	447	3011	198	2811	2024	343	787	186	
	SAFETY	FACTOR		80	7.9	.09	. 42	.75	90.	.68	58	75	.98	.22	.07	.64	.56	.60	.74	.91	1.806	. 63	.56	.57	.61	7.3	. 64	. 62	. 56	.56	
ы	н	H		H	H	н	н	H	н	н	н	H	H	н	⊦-1	H	н	н	н	н	н	н	Н	н	н	ы	н	н	ы	Н	
	RADIUS			.00	2.00	02.00	22.00	2.00	62.00	2.00	2.00	12.00	32.00	2.00	62.00	2.00	02.00	22.00	42.00	62.00	172.000	02.00	12.00	32.00	52.00	72.00	82.00	12.00	22.00	42.00	
SLIPPE CIRCLE	NATE	<b>≯</b> i	1115-11-5-	0.00	0.00	00.00	20,00	0.00	60.00	0.00	0.00	00.00	20.00	0.00	60.00	00:00	0.00	00:00	20.00	40.00	160.000	60.00	0.00	00.00	0.00	40.00	60.00	60.09	00.0	00.0	
SLIP	COORDINATE	×	11111111	00.00	00.00	00.00	00.00	00.00	00.00	0.00	20,00	20.00	20.00	20.00	20.00	40.00	40.00	40.00	40.00	40.00	0	60.00	60.00	60.00	60.00	60.00	60.00	80.00	80.00	80.00	
н	H	Н	I.	ļH	н	н	ы	н	н	1-1	н	н	ы	Н	Н	н	н	н	Ъŧ	H	ы	<b>;</b> -(	Н	Н			} }-	ı <b>⊢</b>	l }-	ł j~	1
	NUMBER			9	13	20	27	34	₽	46	52	58	64	70	77	83	86	91	96	0	107	-1		⊣	N		(M	) M	, (r	) (Y	١

-266657.	-107544.	-28176.	-65160.	-122698.	-204913.	-60265.	-126783.	-34805.	-76962.	-141017.	-231087.	-70805.	-144060,	-82509.	-162824.
385565.	149479.	38840.	90384	170984.	286578.	82351.	174096.	47944.	106641.	196274.	322769.	96756.	197776.	112748.	223491.
1.446	1.390	1.378	1.387	1,394	7,399	1,366	1.373	1.377	1.386	1.392	1.397	1.367	1.373	1.367	1.373
H	н	н	н	ы	. <b> ~</b> {	H	۲ŧ	ы	H	H	н	H	н	Н	H
-243039.	-98383.	-25797.	-59625.	-112228.	-187368.	-55220.	-116119.	-31869.	-70431.	-128999.	-211325.	-64878.	-131946.	-75601.	-149134.
395727.	153601.	39922.	92885.	175693.	294439.	84668.	178968.	49281.	109596.	201686.	331635.	99478.	203312.	115920.	229748.
1.628	1.561	1.548	1.558	1.565	1.571	1.533	1.541	1.546	1.556	1.563	1.569	1.533	1.541	1.533	1.541
H	н	н	н	н	Н	ы	Н	н	н	н	H	<b>!~!</b>	ы	н	<b>1-i</b>
182.000	192.000	112.000	132.000	152.000	172.000	182.000	202.000	122.000	142.000	162.000	182.000	192.000	212.000	202.000	222.000
140.000	160,000	60.000	80.000	100.000	120,000	140,000	160.000	60.000	80.000	100.000	120.000	140.000	160.000	140.000	160.000
180.000	180.000	200.000	200.000	200.000	200.000	200,000	200,000	220.000	220.000	220.000	220.000	220.000	220,000	240.000	240.000
H	ы	H	н	н	н	ř	н	Н	H	Н	ы	н	н	н	H
145	149	151	153	155	157	160	163	164	165	166	167	169	171	172	173

TRO DAM FUTURE EXT. RAPID DRAWDOWN WI.155.5 (U/S) 1:2.5 <MF-04>

-	٠							
	27	ល	17	7	10		0.0500	1,0000
	NUMBER OF NODAL POINTS	NUMBER OF DIFFERENT MATERIALS	NUMBER OF ELEMENTS	NUMBER OF SURFACE LINES	NUMBER OF WATER POINTS	NUMBER OF PORE PRESSURE POINTS	ACCELERATION OF EARTHQUAKE	UNITE WEIGHT OF WATER

MATERIAL PROPATY

	•	TYPE	COHESION (T/M2)	FRICTION (DEGREE)	WEIGHT (WET) (T/M3)	WEIGHT(WET) WEIGHT(SAT) ACC.FACTOR PORE.FACTOR (T/M3)	ACC.FACTOR	PORE.FACTOR
<b>r</b> -!			0,0	30.0	1.72	1,80	1.000	000.0
. 2			0.0	40.0	2.13	2.37	1.000	0.000
, m		0	0.0	36.0	1.93	2.23	1.000	0.000
4			0.0	36.0	1.93	2.23	1.000	0.000
S.		0	0.0	30.0	1.72	1.80	.000°€	0.00.0
DATA OF	SLIPPE	E CIRCLE	-					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1							
OUTLINE OF GRI	OF GR	OI)						
				(				
SON	NUMBER	GROU	GROUP (1)	GR	GROUP (2)			
		X-COOR	Y-COOR	X-COOR	R Y-COOR			
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	ന്	000.0		00.0	000.0			
	4	-100.000		000.0	000-0			

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3CE	* * * * * * * * * * * * * * * * * * *		Y-COORDINAT	Ê,	0,0	140.50	40.5	0.0	0	7.0	υ. υ.	9.5	9.5	9.5	-71.00	54.0	80 . 4. 7	י פע	9.0	9	5.0	0	2.0	2.0	0.5	0.5	13.00
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THE INTERVAL(X) THE INTERVAL(R) THE INTERVAL(R) STOPPING HEIGHT START LINE OF C	NUMBER 1 2	COORDINATE OF	OINT		e=1 +	7 m	) 4	· ເԴ	w	7	ထ	თ	10	디디	12	13	<b>ም</b> L	C -	) t	18	о П	20		22		24	25

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TRO DAM FUTURE EXT. RAPID DRAWDOWN WI.155.5 (U/S) 1:2.5 <MF-04>

BLOCK	×	X-COOR (START)	X-COORDINATE TART) (PERIOD)	MAT	WATER	Weight (Sat)	ACCEL	FRICTION	GRA. OF SLOPE	PE SAFETY (NORMAL)	Factor (Seismic)
	щ	0.00	98.85	0	ı	ı	ı	3		i ·	í
	2	98.85	-134.00	2	<del>ر ا</del> ا	37	0.5	83	43	6	. 54
	ന	00.	-131.00	7	7	37	0.5	83	43	93	
	4	31.00	-123.00	ഗ	디	80	0.5	J.	0	00.00	00.00
	ហ	23.00	-120.00	7	7	37	0.5	83	00	00	8
	9	20.00	-113.07	~	.⊣ ;	37	0.5	83	00	00.00	00.00
	7	13.07	-102.00	7	ᇊ	37	0.5	8	00	00.00	00.00
	బ	02.00	-101.25	7	덖	37	0.5	83	00	00.00	00.00
	0,	01.25	-41.02	2	rН	37	0.5	ထ	40	0	82
~	0	41.02	-33.02	7		3	0.5	8	40	0	82
۳	Н	3.02	-28.58	7	Н	5	0.5	8	40	0	82
	2	28.58	-15.52	2	П	5	0.5	83	40	0	
11	က	53	19.67	2	Н	w	0.5	8	40	0	80
- ۱	14	-9.675	-9.525	2	г	2.370	0.050	0.839	0.400	2.098	1.827
ι,-1	Ŋ	5	-6.00	2	Н	w	0	8	40	0	8
' '	و	6.00	-3.70	0	·	w	0.5	8	40	ö	8
1=1	7.7	3.70	0.01	~	7	ω,	0	80	94.	Ö	õ
, 1	8	0.0	0.01	0	1	'n	0	8	9.	õ	ä
, 1	61	0.0	15.00	N	Н	'n	0	ω	7	ö	œ
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., 1	23	0.52	39.34	~	<b>⊢</b> †	'n	ö	æ	4.	ö	ထဲ
	24	ň	39.52	7	H	'n	Ö	ä	4 (	õ	ω̈́
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- •	28	0	47.5	04	Н	'n	ö	ö	4.	õ	8
- •	29	47.5	57.5	⊣	H	æ.	ö	က်	ĕ	ē	Ō
	30	S	226.7	7	æ	'n	õ	ထ်	īΫ́	Ś	ď
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### STABILITY ANALYSIS (MOST DANGEROUS SLIPPE CIRCLE)

EXC. CONTENTS MAD COS

TRO DAM FUTURE EXT. RAPID DRAWDOWN WL.155.5 (U/S)	3) 1:2.5 <mf-04></mf-04>	1F-04>
CALCULATION NUMBER	171	
SLIPPE CIRCLE (X-COORDINATE)	0.000	(M)
-DO- (Y-COORDINATE)	40.000	(₩)
-DO- (RADIUS)	52.000	(M)
SAFETY FACTOR (NORMAL CONDITION)	1.620	
-DO- (SEISMIC CONDITION)	1.386	
RESISTANCE MOMENT (TOTAL: NORMAL )	37765.	(LON*M)
-DO- ( -DO-:SEISMIC)	37130.	(M*NOL)
RESISTANCE FORCE (COHESION)	00.00	(NOI)
-DO- (FRICTION: BODY FORCE )	871.20	(LON)
-DO- ( -DO- :WATER PRESSURE)	8.63	(NOI)
-DO- :PORE PRESSURE)	-153.57	(NOL)
-DO- :EARTHQUAKE )	-12.21	(TON)
SLIDING MOMENT (TOTAL: NORMAL )	23307.	(M*NOI)
-DODO-:SEISMIC)	26790.	(M*NOL)
SLIDING FORCE (BODY FORCE)	438.07	(LON)
-DO- (WAIER PRESSURE)	10.13	(HOL)
-DO- (EARTHQUAKE)	66.98	(TON)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM FUTURE EXT. RAPID DRAWDOWN WI.155.5 (U/S) 1:2.5 <MF-04>

T SLIDING	1197	2 G	8202	0153	4073	993	335	6139	7149	0797	6642	1581	2166	1381	3449	8659	378	4208	098	9669	69	2140	8731	7403	0512	4	7985
YNAMIC MOMEN RESISTANCE	292	40	9000	821	9030	339	465	5572	1211	5997	7525	2977	20690	5730	380	9004	1079	6731	3454	4237	9192	1456	1825	8011	6118	196	9512
SAFETY	9	1.805		.63	5.	.51	8.	<u>ر.</u>	. 62	49	4.6	. 50	.58	.7	.50	4	1.475	Ğ	5	9	4	4	Ŋ	9	က်	Š.	~
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SLIDING	1049	157332.	6 C C C C C C C C C C C C C C C C C C C	2722	4750	8458	41	2165	1619	3444	7182	9835	1019	8091	8558	1828	4742	6988	446	3662	2926	6193	3488	5222	250	420	5653
S T A T I C M O M E N RESISTANCE	336	346190.	4000	3430	01110	1006	1050	5427	1345	7590	9670	25626	3791	37360	1340	3494	6082	3486	4062	5118	9915	2704	3025	8557	6411	239	1600
SAFETY FACTOR	22	2.200		. 6	84	8.	18	90.	94	.78	74	7.9	ε. 8	90.	.79	.68	r,	88.	.84	90	74	.73	$\infty$	F~~	_	8.	92
   	    - 	<b>⊢</b> +	i	<b>.</b> ⊢	: H	н	H	H	ы	н	ы	H	Ł٦	Н	н	H	н	1-1	H	ы	н	н	Н	H	н	н	н
RADIUS	62.00	102.000	42.00	62.00	82.00	02.00	82.	2.00	22.00	42.00	62.00	82.00	02.00	82.00	02.00	22.00	2.00	52.00	52.00	72.00	2.0	02.00	12,00	12.00	22.00	ò	62.00
PE CIRCLE NATE	00.0	40,000		00.00	0.00	40.00	0.00	0.00	0.00	00.0	00.00	0.00	40.00	0.00	0.00	0.00	0.	00.00	0.00	40.00	20.00	9.0	0.0	0.00	00.00	120.000	40.00
SLIPPE COORDINAT X	100.0	100.001		00.001	00.00	00.00	0.00	80.00	0.00	0.00	0 0	0.00	0.00	0.00	0.00	00.00	90-09	0.0	0.0	8	ĕ	ŏ	-40.000	-40.000	40.00	40.04	ŏ
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NUMBER		<b>ል</b> ር	~ C	) M	16	6-1	22	25	29	33	37	41	45	49	53	57	61	67	74	79	81	86	92	თ თ		110	

203983.	106571.	79170.	42886.	62786.	84392.	104104.	32831.	26790.	48542.	20755.	30231.	39140.	47071.
326243.	167120.	117730.	67421.	95406.	139849.	187840.	47623.	37130.	74332.	32322.	51838.	76186.	102270
1.599	1.568	1.487	1.572	1.520	1.657	1.804	1.451	1.386	1.531	1.557	1.715	1.947	2.173
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174714.	92467.	69114.	37782.	54936.	73238.	89348.	28177.	23307.	42119.	18149.	26093.	33258.	39327
331666.	170312.	119952.	68637.	97146.	142470.	191172.	48559.	37765.	75881.	32887.	52728.	77396.	103746
1.898	1.842	1,736	1.817	1.768	1.945	2.140	1.723	1.620	1.802	1.812	2.021	2.327	2.638
H	H	н	н	ы	н	н	, <del>,</del>	<b>}~</b>	H	H	н	н	<b> </b>
72.000	72.000	82.000	92.000	112.000	132.000	152.000	42.000 I	52.000	72.000	82.000	102.000	122.000	142,000
20.000	40.000	000.09	80.000	100.000	120.000	140.000	20.000	40.000	000-09	80.000	100,000	120.000	1.40 .000
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TRO DAM FUTURE EXT. MEDIUM WL:174 1:2.3 & 1:1.8 <MF-05>

OF NODAL POPERER OF SURFACE OF WATER PROFILED OF POPER PROFILED OF THE PROFILE	OF NODAL POINTS27	DIFFERENT MATERIALS 5	ELEMENTS17	SURFACE LINES7	WATER POINTS7	NUMBER OF PORE PRESSURE POINTS0	OCOUNTERPRETATION OF HARDHHOITAKE
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MATERIAL PROPATY

ACC.FACTOR PORE.FACTOR	00000	
ACC.FACTOR	1.000	
WEIGHT(SAT) / (T/M3)	2 2 3 3 4 0 1 1 2 2 3 3 4 0 1 1 2 3 3 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
WEIGHT (WET) (T/M3)	77 77 77	
FRICTION (DEGREE)	0 4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6	
COHESION (T/M2)	00000	
TYPE	00000	
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DATA OF SLIPPE CIRCLE

OUTLINE OF GRID

GROUP (2)	X-COOR Y-COOR	100.000 60.000		230.000 160.000	100.000 160.000
(1)	Y-COOR	60.000	60.000	180.000	180,000
GROUP	X-COOR	-100.000	000.0	000.0	-100.000
NUMBER		H	7	m	4

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	* *		DINA	Έ.	9.00	0.50	0.50	2000	000	7.00	. 50	S.	8	. 50	1 00 d	4.00	6.00	00 9	00.9	00.9	5.00	20.0	200	200	2.00	3.0
	* * * * * * * * * * * * * * * * * * *		Y-COORDINATE		, <del>, , ,</del>	- 4	1	יייני קייני	1 1	9	1	-7	<u>, , , , , , , , , , , , , , , , , , , </u>	7-		i i	<del>ا ا</del>	rd i	7	7	7	-1 <i>(</i>		9 C		⊣
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41.53	DATA ()	3	NODAL	16 25		н.	4	<b>ታ</b>	ന	ന	13	7	~	15		-1	16	<b>,-</b> 1	20	17	138	50	50
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TRO DAM FUTURE EXT. MEDIUM WL.174 1:2.3 & 1:1.8 <MF-05>

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	FACTOR (SEISMIC)		ι	.54	. 54	00.00	00.00	100.000	00.00	00.00	. 54	69	69	9.	. 69	69.	69	69	69	69.	.69	മ	69	69.	O)	$\alpha$	g	ത	σ.	. 69	1.69	100,000	er.
	PE SAFETY (NORMAL)		1	.92	.92	00.00	00.00	00-	00.00	00.00	93	.93	.93	93	.93	. 93	93	93	. 93	. 93	. 93	1.930	. 93	93	ന	ന	.93	93	93	ന	1.93	100.000	1.510
	GRA. OF SLOPE		i	43	43	00.	00.	00.	00.	00.	43	43	.43	.43	43	43	43	43	43	6.43	43	43	43	4.3	24.	.43	43	4	4	43	4	000.0	.55
	FRICTION		1	83	83	57	83	0.839	.83	83	83	$^{\circ}$	.83	.83	83	.83	83	83	.83	.83	.83	$\sim$	.83	83	ന	83	.83	.83	83	83	.83	0.577	83
-	ACCEL		1	.05	S	0.5	.05	.05	.03	.05	.05	.05	0.5	9	.05	.05	0.5	0.5	.05	.05	.05	.05	0.5	.05	.05	.03	.05	.05	.05	.05	u;	0.050	LT.
	WEIGHT (SAT)		1	.37	.37	8.0	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	ω. 7	.37	5	.37	.37	37	.37	.37	37	1.800	ü,
	WATER		1	7	<b>⊢</b> (	ન 	7	[	( 	-	Ę	; ;1	<del></del> 1	гH	<del>, -1</del>	<u></u> 1	<b>-</b> t	ᆏ	Н	H		гH	. ~	-	<u></u> 1	Н	~1	Н	<b>.</b> -t	1	<b>H</b>	Н	Н
	MAT		0	7	7	in	~	0	ĊI	8	0	0	Ø	N	8	<b>N</b>	7	Ø	7	7	N	7	α,	7		0	0	0	N	7	<b>N</b>	H	7
	OINATE (PERIOD)		90.50	125.90	122.90	14.90	11.90	04.97	3.90	3.15	50.60	1.02	3.02	27.34	5.52	1.53	9.52	90	00.	0.94	0.05	00.	1.00	4.52	0.52	6.20	9.02	1.53	1.57	3.00	$\circ$	53.700	0
	X-COORDINATE (STARI) (PERIOD	•	00.00	.50	125.90	22.90	114.90	11.90	04.97	93:90	93.15	50,60	41.02	3.02	27.34	5.52	1.53	9.52	6.90	6.00	0.94	.05	5.00	1.00	4.52	0.52	6.20	9.02	1.53	1.57	3.00	43.700	.70
	BLOCK		Н	2	m	77	S	ဖ	7	ထ	Ø	10	17	r-I	Н	14	ŗ	,r-I	17	8 H	6 H	20	21	22	23	24	25	26	27	28	2 6 2	30	31
															11/1	•		<i>J</i>															

#### \* (NORMAL) (MOST DANGEROUS SLIPPE CIRCLE)

TRO DAM FUTURE EXT. MEDIUM WL.174 1:2.3 & 1:1.8 <MF-05>

	(M) (M) (M) (M)	523 289	4. (TON*M) 0. (TON*M) 00 (TON) 45 (TON) 20 (TON) 59 (TON)	3. (TON*M) 4. (TON*M) 82 (TON) 82 (TON) 42 (TON)
оо оо	-40.000 60.000 102.000	1.523	306414. 298710. 4796.45 167.26.45	201143 231684 1973.8 1-1.8
CALCULATION NUMBER	SLIPPE CIRCLE (X-COORDINATE)	SAFETY FACTOR (NORMAL CONDITION)	RESISTANCE MOMENT (TOTAL:NORMAL)	SLIDING MOMENT (TOTAL:NORMAL)

MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

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TRO DAM FUTURE EXT. MEDIUM WL.174 1:2.3 & 1:1.8 <MF-05>

CMB	8×	SLIPPE CIRCLE ORDINATE Y	RADIUS	     	SAFETY	S T A T I C M O M E N RESISTANCE	N T SLIDING	 	SAFETY	DYNAMIC MOMEN RESISTANCE	:
! ! ! ! (?) !	00.00	00	02.00	4 H	03	1	16	! ! ! ₹ H	-65	263	580
	-100.000	00	22.00	ы	9.4	163	193	H	.61	92	915
	00.00	00.00	62:00	Н	83	6860	6811	н	48	5185	4024
0	-100.000	120,000	~	н	1.722	831111.	482723.	H	1.410	808894	573728.
m	00.00	40.00	02.00	н	71	4024	0638	H	40	1262	1860
യ	00.00	60.00	02.00	₽	. 68	9303	3272	'n	44	8339	6587
0	00 00	80.00	22.00	H	. 60	7800	9808	ы	.36	6628	4094
4	80.00	00.0	22.00	ы	.81	9347	7202	н	.47	8153	2640
ω	0.00	0.00	42.00	н	99.	3968	8403	н	.36	2277	5658
. ~	0.00	00.00	62.00	н	99,	4800	0923	н	.37	2568	0262
Ø	0.00	0.00	62.00	н	.57	6979	3469	Н	.34	6050	6864
2	0 0	40.00	82.00	H	.57	7963	0432	H	.34	6705	4863
<b>ر</b>	0.00	60.00	92.00	H	62	8964	7809	ы	.40	8321	0119
-	0.00	80.00	12.00	н	. 62	6775	2599	<b>⊢</b> t	.40	5949	5630
ო	0.00	00.0	22.00	H	. 60	0362	7582	H	.32	8800	4400
a	0.00	0.00	22.00	H	55,	0601	9724	Ή	3.	9836	2680
m	0.00	00.00	42.00	H	.55	2253	7220	н	3	1134	1255
	00	00.0	52.00	н	5.	8413	182185.	H	.34	760	0700
4	0.00	40.00	72.00	<b>⊱</b> -4	69	8470	3462	H	.40	7561	6746
0	00.0	60.00	82.00	H	.70	0557	2085	н	.47	0149	3626
	0.00	00.0	02.00	н	.78	7044	5161	н	54	6505	7208
0	0.00	0.00	02.00	ы	.52	0641	0114	Н	. 28	9871	3168
4	0.00	0.00	12.00	н	5.4	4172	5617	H	.32	3585	7800
00	00	00.00	22.00	H	. 61	5432	578	H	.40	5130	0807
0.5	0.00	0.00	42.00	н	.71	1934	828	Η,	.47	1478	4557
7	00.	40.00	52.00	н	7.4	964	141	н	Ę,	789	791
00	0.00	0.00	72.	Н	2,	377	880	H	55.5	141	817
124 I	00	80.00	92.00	н	9	6608	S	H.	99.	6303	786

83340,	45688,	66276;	86571.	25108,	34226.	42753.	13588.	22707.	31926.	40137.	47304	53754.	9949.	
116235.	64688.	97979.	141133.	39923.	58731.	80546.	19869.	33848.	55586.	79765.	105435.	132272.	22297.	
1.395	1.416	1.478	1.630	1.590	1.716	1.884	1.462	1.491	1.741	1.987	2.229	2.461	2.241	
H	н	н	H	H	н	н	н	H	Н	ы	įΗ	н	н	
73369.	40511.	58279.	75296.	22062.	29698.	36616.	12059.	19884	27520.	33993.	39324.	43866.	8251.	
118719.	65964.	99963	143882.	40655.	59745.	81842.	20254.	34476	56564.	81023.	106925.	133957.	22571.	
1.618	1.628	1.715	1.911	1.843	2.012	2.235	1.680	1.734	2.055	2.384	2.719	3.054	2.736	
Н	н	н	H	н	н	н	н	н	н	H	H	н	н	
82,000	92.000	112,000	132,000	142.000	162,000	182,000	62.000	82.000	102.000	122,000	142.000	162.000	172.000	
60.000	80.000	100.000	120.000	140.000	160.000	180.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	
-20,000	-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	0000	0000	000.0	0.00.0	000.0	0.00.0	000.0	
H	н	Н	н	ьч	H	ы	ы	н	н	н	H	Н	H	
129	136	142	148	155	162	169	176	183	190	197	204	211	219	

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	AME - 05	
	1:1.8	
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	1.2.3	
	WL.174	
	MEDIUM V	
	EX.	
	FUTURE	
	DAM	
3	TRO	

	CALCULATION NUMBER	160		
	SLIPPE CIRCLE (X-COORDINATE)	200.000	(M)	
	-DO- (Y-COORDINATE)	140.000	<b>(</b> ¥)	
	-DO- (RADIUS)	182,000	(M)	
•		r r	.*	
	TOK (NOKMAL	1.533		
	-DO- (SEISMIC CONDITION)	1.366		
II A	RESISTANCE MOMENT (TOTAL: NORMAL )	84668	(HON*M)	
•	-DO- ( -DO-:SEISMIC)	82351	(HON*M)	
10	RESISTANCE FORCE (COHESION)	00.00	(HOL)	
E	-DO- (FRICTION: BODY FORCE )	465.21	(NOL)	
	-DO- ( -DO- :WATER PRESSURE)	00.00	(NOI)	
	-DO- ( -DO- :PORE PRESSURE)	00.00	(NOL)	
	-DO- :EARTHQUAKE )	-12,73	(NOI)	
	SLIDING MOMENT (TOTAL: NORMAL )	-55220.	(TON*M)	
	-DO- ( -DO-:SEISMIC)	-60265.	(H×NOI)	
	SLIDING FORCE (BODY FORCE)	-303,40	(LON)	
	-DO- (WATER PRESSURE)	00.00	(NOL)	
	-DO- (EARTHQUAKE)	-27,72	(TON)	

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM FUTURE EXT. MEDIUM WI.174 1:2.3 & 1:1.8 <MF-05>

NUMBER	ннн	SLIPPE COORDINAT X	PE CIRCLE NATE Y	і Н Н	і і і ынні	SAFETY	S T A T I C M O M E N RESISTANCE	N T SLIDING	ннн	SAFETY	DYNAMIC MOMEN RESISTANCE	TSLIDING
ı	í ! ! - }-	00.00	0.0	2.00	į.		1 1 20	-42254.	! ! ! -;	67	879	707
	· 1~1	00.00	0	2.00		7.9	2769	545	ы	8	27052.	-17116.
_	<b>1</b> ~1	00.00	00.0	02.00		0.0	4960	364	н	82	864	999
	<b>  </b>	00.00	20.0	22.00		42	7400	0.5	н	07	277	502
	. 1-4	00.00	0.0	2.00		75	1001	35	н	32	871	249
	ы	00.00	60.09	62.00		90	12719	144	н	a)	553	29
	н	20.00	0.0	2.00		68	10901	458	н	2	0630	108
52	H	120,000	80.000	92.000		1.585	4174	-26331.	щ	1.410	064	$\alpha$
_	H	20.00	00.0	12.00		7.5	8079	597	ы	S.	$\infty$	081
	⊱⊣	20.00	20.02	32.00		8	12598	358	н	5	337	118
	<b>⊢</b> -≀	20.00	0	2.00		22	17530	892	н	92	7	-89529.
~-	H	20.00	60.0	62.00		0.	4240	043	н	8.	158	303
_,	. <del> -</del> (	10.00	09	92.00		64	13504	203	н	46	160	007
	. ⊷	10.00	~	02.00		.56	5261	G	H	Š	120	674
	H	10.00	00.0	22.00		9.	10819	6740	ԻՎ	4.	0537	7385
in	H	10.00	20.0	12.00		7.	17676	4	H	54	255	206
0.7	ы	10.00	40	52.00		6	25328	3208	н	39.	4782	4730
-	Ĥ	000	_	ŏ	н	8.	w	514	ы	Ŋ	79693	500
0	ы	50.00	~.	05.00		ف	16288	99	Ħ	4	870	937
4	н	50.00	~	12.00		ις.	6447	-41272.	Η	ň	27	57
18	ы	60.00	00.	32.0(		Ŋ	13011	8284	H	ň	2663	0906
22	ŀ⊣	60.00	20.	52.00		9	22198	713	н	ਖਾਂ	1624	038
26	н	0.09	40	72.00	:	7	32811	8925	Н	'n	2024	0889
31	Н	0,09	0	32.0(		Ø	12024	730	Н	4	720	8020
e E	H	80.00	- 09	12.00		S	19343	90	ы	4.	88	3058
36	H	80.00	·.	22.0		~	7787	-49924	Н	ñ	578	456
<u>ه</u>	1-1	80.0	00	42.0	٠.	ī,	1518	-96863	H	ñ	147800.	0.59
42	Н	80.0	0	62	н	1.574	25985	S	H	4	5293	ထ
					٠.							

-266657.	-107544.	-28176.	-65160.	-122698.	-204913.	-60265.	-126783.	-34805.	-76962.	-141017.	-231087.	-70805.	-144060.	-82509.	-162824.
385565.	149479.	38840.	90384.	170984.	286578.	82351.	174096.	47944	106641.	196274.	322769.	96756.	197776.	112748.	223491.
1.446	1.390	1.378	1.387	1.394	1.399	1.366	1.373	1.377	1.386	1.392	1.397	1.367	1.373	1.367	1.373
H	Н	н	H	ы	ы	ы	Ħ	H	Н	Н	н	н	н	Н	, <b>⊢</b> i
-243039.	-98383,	-25797.	-59625.	-112228.	-187368.	-55220	-116119.	-31869.	-70431.	-128999.	-211325.	-64878.	-131946.	-75601.	-149134.
395727.	153601.	39922.	92885.	175693.	294439.	84668	178968.	49281.	109596.	201686.	331635.	99478.	203312.	115920.	229748.
1.628	1.561	1.548	1.558	1.565	1.571	1.533	1.541	1.546	1.556	1.563	1.569	1.533	1.541	1.533	1.541
н	н	н	H	н	н	H	H	}-t	H	<b>;~</b> l	H	H	н	ы	н
182.000	192.000	112.000	132.000	152.000	172.000	182.000	202.000	122.000	142.000	162.000	182.000	192,000	212.000	202.000	222.000
140.000	160.000	60.000	80.000	100.000	120.000	140.000	160.000	60.000	80.000	100.000	120.000	140.000	160.000	140.000	160.000
180.000	180.000	200.000	200.000	200.000	200.000	200.000	200.000	220.000	220.000	220.000	220.000	220.000	220.000	240.000	240.000
H	Ĥ	H	Н	H	н	H	Ħ	н	н	H	Н	н	H	H	н
145	14.9	151	153	155	157				5		2	٠.	171	172	173

LIST OF INPUT DATA

TRO DAM FUTURE EXT. MEDIUM WL.174 (U/S) 1:2.5 <MF-06>

MATERIAL PROPATY

PORE.FACTOR	00000	
ACC.FACTOR PORE.FACTO		
WEIGHT(SAT) (T/M3)	1 2 2 2 1 1 2 2 2 3 4 2 3 3 4 3 4 3 4 4 4 4 4 4 4 4	
WEIGHT (WET) (T/M3)	7.72 2.13 1.93 1.72	
FRICTION (DEGREE)	30.00 30.00 30.00 30.00	
COHESION (T/M2)	00000	
TYPE	0000	
		,

DATA OF SLIPPE CIRCLE

OUTLINE OF GRID

NUMBER	GROUP (1)	5 (1)	GROUP (2)	(2)
	X-COOR	Y-COOR	X-COOR	Y-COOR
<b>н</b>	-100.000	20.000	000.0	0.000
7	000.0	20,000	0.00	0.000
ന	000.0	140,000	0.000	000.0
4	-100.000	140.000	000.0	000.0

	200E+01) ****** 0.0																				
	000E-01)X+(-6.200E+01)  *** ********************************					٠															
20.0 20.0 10.0	X=(0.000E- x * * * * * * * * * * * * * * * * * * *		ы						٠												. *
	* * * * * * * * * * * * * * * * * * *		-COORDINAT	19.000	40.	-40.500	4.	. 67	9.50	-79.500 -79.500	71.00	. 0	16.00	1.6.000	16.00	•	a,	62	-62.000	200.7	13.000
FROM SURFACE	HEGNO	NODAL POINT	-COORDINATE Y (M)	47.500	-123.000	-131,000 -198,850	34.	115.	•	24.525 30.525	တ္က (	• ; •	ů,		 } ~!	Ġ	S	13.	-33,025		
THE INTERVAL(X)THE INTERVAL(Y)	LINE OF CIRCLE R OF LIMITIED C NUMBER TYPE 2 -1	INATE OF	×																		
THE II	START NUMBER	COORD	POINT	чс	1 m	4 rV		<b>~ ω</b>		10		니 다 & 4		9 -	18	19	20	21	22	24.2	25
						٠	IIA ·	- 10	)9												

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0000	22	6 T		19		ដ	4	ćλ	13	ო	ტ  -	75	Н	Ø	16	ᆏ	17	20	20	18	18	27	20
171	NUMBER	20	SER)	27		×	9	7	21	7	14	14	٦ ر	22	ത	79	10	17	18	11	12	75	б Н
4 00	(NODAL	 	I NUMBER	26		כו	S	9	7	13	22	13	ņ	14	∞	15	ത	16	17	70	Ħ	18	27
44.1 46.0	DATA (	3 2	(NODAL	.6 25	٠	Ħ	4	ヤ	ന	ო	21	7	H	15	75	H	16	rH	20	11	18	20	20
	SURFACE	     4	TE DATA	24 1	DATA	TYPE	71	ഗ	7	~	বা	~	7	7	ო	က်	r-f	H	ന	ന	7	7	N
26	SROUND SU	່     ທ	WATER LINE	23	ELEMENT I	ELEMENT	r <del>-1</del>	N	ന	ব	ഗ	Ø	7	œ΄	o,	10	11	12	13	14	12	91	11
	GR.	i I	M I	i i	田	I I																:	

TRO DAM FUTURE EXT. MEDIUM WL.174 (U/S) 1;2.5 <WF-06>

FACTOR (SEISMIC)	ι	.54	.54	00.00	00.00	0	00.00	00.00	99.	.82	.82	.82	.82	.82	.82	.82	.82	.82	.82	. 82	.82	.82	.82	.82	. 82	1.827	.82	.82	.82	00.	.34
SAFETY (NORMAL)	, I	.93	.93	00.00	00.00	00.	00.00	00.00	60.	.09	60.	60.	60.	.09	.09	.09	.09	.09	.09	.09	60.	60.	.09	0.0	.09	2.098	90.	90.	60.	00.	. 51
GRA. OF SLOPE	ı	.43	.43	00.	00.	00.	00.	00.	40	.40	40	.40	.40	.40	.40	.40	.40	.40	40	.40	.40	40	.40	.40	.40	0.400	.40	.40	.40		. 55
FRICTION	, 1	.83	.83	.57	.83	.83	.83	.83	.83	.83	83	.83	. 83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	0.839	.83	.83	.83	.57	.83
ACCEL	1	.05	.05	.05	.05	:05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	. 05	.05	.05	0.050	.05	.05	.05	.05	.03
WEIGHT (SAT)	1	.37	.37	.80	.37	.37	.37	.37	.37	3,	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	2.370	.37	3	.37	80	3
WATER	1	r I	겁	7	<b>⊢</b> 1	-1	<b>1</b>	-1	-	_	~4	r-t	<b>⊢</b> 1		H	⊷	<b></b> (	H	1	Н	m	Н	1	Ц	Н	-		-	<b>-</b> t	r-d	Н
MAT	0	8	α.	<sub>ن</sub>	7	Ċŧ	7		~	8	2	7	7	7	2	7	7	7	7	8	0	7	N	7	2	7	~1	~	~	<b>~</b>	7
inate (Period)	8.85	4.00	1.00	3.00	120.00	0.7	102.00	1.25	5.00	1.02	3.02	9.32	. 52	1.53	52	6.90	00.	0.94	0.05	5.00	1.00	4.52	0.52	9.34	9.52	44.143	4.18	6.00	7.50	7.50	6.70
X-COORDINATE (STARI) (PERI	0.00	98.8	134.0	31.0	123.0	000.	13.077	0.20	01.2	55.0	7.0	33.0	6.9	5.5	5	6	ο,	٥.	6.0	0	O N	0.	4	0.5	9.3	39.525	4	4.1	9	,	u)
BLOCK	Н	7	m	4	ம்	9		ω	σ				۲H	H	ł		H									26					

# TRO DAM FUTURE EXT. MEDIUM WI.174 (U/S) 1:2.5 <MF-06>

SLIPPE CIRCLE (X-COORDINATE)					
TION)  TION)  TION)  THON)  THONO  TH		CALCULATION NUMBER	171		
FACTOR (NORMAL CONDITION)  -DO- (SEISMIC CONDITION)  -DO- (SEISMIC CONDITION)  -DO- (CDO-:SEISMIC)  -DO- (CDO-:SEISMIC)  -DO- (COHESION)  -DO- (COHESION)  -DO- (CDO-:WATER PRESSURE)  -DO- (CDO-:PORE PRESSURE)  -DO- (CDO-:EARTHQUAKE)  -DO- (CDO-:SEISMIC)  -DO-:SEISMIC)  -DO- (CDO-:SEISMIC)  -DO-:SEISMIC)  -DO-:S		SLIPPE CIRCLE(X-COORDINATE)	0.000 40.000 52.000	(£ (£ (£	
37765. ( 37130. ( 0.00			1,620		
FORCE (COHESION)		RESISTANCE MOMENT (TOTAL:NORMAL )	37765.	(H*NOL)	
ATER PRESSURE) 8.63 ( ORE PRESSURE)153.57 ( ARTHQUAKE )12.21 ( ) 23307. ( ) 26790. ( E) 10.13 ( E) 10.13		FORCE (COHESION (FRICTION	0.00	(TON)	
23307. (26790. (26790. (E) 10.13 (66.98)		( -DO- :WATER ( -DO- :PORE ( -DO- :EARTHQ	8.63 -153.57 -12.21	(TON) (TON)	
	4.0	SLIDING MOMENT (TOTAL:NORMAL)	23307. 26790. 438.07 10.13 66.98		

	<mf-06></mf-06>	
	1.2.5	
	(n/s)	
	WL.174	
	MEDIUM	
	EXT.	
,	DAM FUTURE	
	DAM	
	TRO	

CLE	יייייייייייייייייייייייייייייייייייייי	:		
-DO- -DO- -DO-	(X-COORDINATE)		-40.000 60.000 102.000	(X (
SAFETY FACTOR (NORMAL -DO- (SEISMIC	(NORMAL CONDITION)	: :	1.640	
RESISTANCE MOME	RESISTANCE MOMENT (TOTAL:NORMAL )		317088.	(TON*M)
RESISTANCE FORCE	_		00.0	(NOL)
-00-	(FRICTION: BODY FORCE ).	:	4939,36	(TON)
-00-	( -DO- :WATER PRESSURE).	:	163.71	(TOL)
-00-	( -DO- :PORE PRESSURE).		-1994.36	(TON)
-00-	( -DO- :EARTHQUAKE ).	:	-71.63	(NOL)
SLIDING MOMENT (TOTAL: NORMAL)	TOTAL: NORMAL )	•	193292.	(HON*M)
-00-	-DO-:SEISMIC)		224840.	(M*NOL)
Ä	(BODY FORCE)		1886.52	(NOL)
_	WATER PRESSURE)		8.50	(TON)
-00-	(EARTHQUAKE)	:	309.29	(NOI)

TRO DAM FUTURE EXT. MEDIUM WI.174 (U/S) 1:2.5 <MF-06>

		LIDING	m	847	53	101	4497	434	2233	865	67	2746	5291	9977	ဆ	4747	357	3636	~	8938	0752	0527	648	430(	4967	248	7239	3551	417	1981	
YNAMIC	MOMENT	ESISTANCE	22	30	9	103134.	104.	55016.	62132.	933	505	13644.	56700.	57965.	5405.	95840.	171	3299	200	5247	3356	9300	9284	375(	4857	097	443(	468(	196	9513	:
Д	SAFETY	FACTOR R	81	74	70	1,690	57	48	47	7.	99.	5.5	4.	4.	46	42	7.	4.	38.	4	4	42	4	<u>ښ</u>	m	က	1.417	•	1.549	-	
н	н	н	\       	H	H	H	<b>}~</b> {	H	н	Н	ы	H	н	н	H	н	H	H	H	н	H	н	ы	ы	ы	н	Н	н	н	н	
	EH	STIDING	l ru	516	970	51662.	827	7826	435	389	826	7025	7708	0251	73	0030	96	4613	- 10	3187	6521	7915	3057	0173	1159	932	498	044(	242	565.	
STATIC	O E	RESISTANCE	571	33	239	$\circ$	792	7665	8959	5042	550	2548	7315	7994	0575	301	324	4305	620173.	6626	4441	9924	0174	4477	5636	1708	4978	547	2392	0091	
	AFET	⊱-≀	32	19	10	2.052	Ф Д	83	80	11	9	9	7.8	7.5	73	9	0	8	9		Ģ	6	7	ř	ĕ.	Ġ	9	٠,	ω̈	o)	
н	н	H	: : : : : :	н	!l	н	H	н	н	H	н	H	H	H	н	н	н	<b>!</b> —í	ы	H	Н	н	Н	н	H	Н	H	н	; H	1 <del>-1</del>	
	RADIUS		2 1	2.0	02.0	122.000	62.0	82.0	02.0	62.0	~	22.0	42.(	62.	62.	0	52.	02.	-	32.	42.	52.	72.	82	2	02	122		42	62	
E CIRCLE	ATE	≽н	00.	0	000.09	0.00	00.00	0.00	40.00	20.00	00	0.00	.00	00.00	.00	40.00	00.0	00.0		0.00	00.00	0.00	40.00	20.00	0.0	ŏ.	0.0	00.00	20.00	Ö	
SLIPPE	COORDINATE	×	00.00	00.00	00.00	-100.000	00.00	00.00	00.00	80.00	0	0.00	0.0	0.00	0.0	0.0	60.06	0.0	ò	0	0	0.09	0.0	0.00	0	0.00	00.	0.0	0.00	0.00	
н	NUMBER I		1 1 1 1 1 1 1 1					_	_			-			~	~	^1		. ~	. ^1	~	< t	· m		~	m	G	0.4	0	116 I	

111019.	106439.	79170.	42886	62786.	84392.	104104.	32831.	26790.	48542.	20755	30231,	39140.	47071
154337.	149197.	117730.	67421.	95406.	139849.	187840.	47623.	37130.	74332.	32322.	51838.	76186.	102270
1.390	1.402	1.487	1.572	1.520	1.657	1.804	1.451	1.386	1.531	1.557	1.715	1,947	2 173
H	н	H	н	Н	Н	Н	н	н	Н	н	H	ы	<b>}</b> -
94208	91971.	69115.	37782.	54936.	73238.	89348.	28177.	23307.	42119.	18149.	26093.	33258.	39327
157246.	152369.	119952.	68637	97146	142470.	191172.	48559.	37765.	75881	32887	52728.	77396.	103746
1.669	1.657	1.736	1.817	1.768	1.945	2.140	1.723	1.620	1.802	1.812	2.021	2.327	0.00
H	Н	н	н	н	ы	н	<b>⊢</b> l	H	н	H	н	Н	⊢
62.000	72.000	82.000	92.000	112.000	132.000	152.000	42.000	52.000	72.000	82.000	102.000	122,000	142 000
20.000	40.000	60.000	80.000	100.000	120.000	140.000	20.000	40.000	60.000	80.000	100.000	120.000	140 000
-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	0.000	0.000	000.0	0.000	000.0	0000.0	0 000
н	H	H.	H	ļН	н	н	Э	ļH	н	H	H	ы	. 1-
120	127	134	141	147	153	159	164	171	177	1.85	192	199	200

\* MINMIM SAFETY FACTOR AT EACH GRID POINT (SEISMIC)

TRO DAM FUTURE EXT. MEDIUM WL.174 (U/S) 1:2.5 <MF-06>

нн н	SLIPPE C COORDINATE X	PPE CIRCLE INATE Y	RADIUS	нны!	SAFETY FACTOR	S T A T I C M O M E D RESISTANCE	N T SLIDING	ннн	SAFETY	DYNAMIC MOMEN RESISTANCE	SLIDING
Ιō	10	0.00	00	! ! ! ! !	32	1572	3	; ! 	-81	1522	37
	0.00	00.	2.00	H	4	333	516	ы	74	3230	847
-10	0.00		02.00	H	70	6239	970	н	.70	0909	35532.
	000.00	00.0	122.000	н	2.052	10600	51662.	н	1.690	-	$\vdash$
	000.00	00.00	62.00	ы	Q.	71792	6827	н	.57	70110	4497
	00.0	20.00	82:00	Н	ဆ	87665	826	H	.48	85501	434
	0.00	00	02.00	Н	80	108959	0435	H	.47	106213	2233
	0.00	20.00	2.00	H	Η	5042	389	н	7.	4903	865
1	0.00	0.00	2.00	ы	9	1650	826	ы	99.	1605	5
ļ	80.00	0.00	22.00	H	Q.	52548	7025	н	8	51364	2746
1	80.00	00.0	42.00	Н	78	67315	7708	н	Δ, Ω3	65670	5291
,	80.00	00.00	62.00	H	7.5	87994	3251	н	4	85796	7666
ı	80.00	0.00	62.00	н	7.3	40575	3373	н	.46	39640	7038
٠	$\circ$	40.00	2.00	н	9	50801	0030	H	42	49584	4747
	0.0	0.00	82.00	н	0.5	31657	5392	н	3	31001	8812
•	0	0.	02.00	H	8.	44305	4613	ы	4.	43299	9670
'	60.00	0.00	22.00	ы	9	62017	6653	н	<u>ښ</u>	60500	3686
1	60.00	0.00	32.00	H	7.	56626	31.87	н	4.	55247	8938
,	60.00	00.00	42.00	H	6	44441	6521	н	4	43355	0752
•	ö	8	2.00	H	6	29924	7915	H	47	29309	0.52
•	0.00	40.00	72.00	н	7.	40174	30.57	Н	₹.	39284	6485
,	0.00	20.00	82.00	ы	ř.	34477	0173	H	ઌૢૻ	33756	4306
1	Ö	0.00	2.00	н	39	35636	1155	н	ñ	34857	4962
•	ò	ŏ	02.00	н	9	31708	9325	н	'n	30978	2484
į	0.0	0.0	12,00	H	9	24978	4985	ы	4	2443(	7239
	Ö	00.00	32,00	H	F	3547(	0440	H	7.	34680	3551
•.	ö	120.000	2.0	н	×.	223	124205.	Н	1.549	219631.	141795.
•	-40.000	40.00	62,00	H	6	30091	5653	н	9.	29512	7984
٠											

111019.	106439.	168610.	42886.	62786.	84392.	104104.	32831.	26790.	43542.	20755.	30231.	39140.	47071.
154337.	149197.	247985.	67421	95406.	139849.	187840.	47623.	37130.	74332.	32322.	51838.	76186.	102270.
1.390	1.402	1.471	1.572	1.520	1.657	1.804	1.451	1.386	1.531	1.557	1.715	1.947	2.173
н	н	н	н	<b>н</b>	Н	н	н	H	H	н	н	H	н
94208.	91971.	145839.	37782.	54936.	73238.	89348	28177.	23307.	42119.	18149.	26093.	33258.	39327.
157246.	152369.	253395.	68637.	97146.	142470.	191172.	48559.	37765.	75881.	32887.	52728.	77396.	103746,
1.669	1.657	1.737	1.817	1.768	1.945	2.140	1.723	1.620	1.802	1.812	2.021	2.327	2.638
Н	H	H	H	Н	H	н	H	Н	·	H	, H	H	Н
62.000	72.000	92.000	92.000	112.000	132,000	152.000	42.000	52.000	72.000	82.000	102.000	122.000	142.000
20.000	40.000	60.000	80.000	100.000	120.000	140.000	20.000	40.000	60.000	80.000	100.000	120,000	140.000
-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	0.000	000.0	000.0	000-0	000.0	000.0	000.0
Н	⊢4	Н	Н	Н	H	H	H	н	н		н	:. ⊁⊣	Н
120	127	133	141	147	153	159	164	171	177	185	192	199	206

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* LIST OF INPUT DATA \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TRO DAM FUTURE EXT. AFTER COMPLETION. 1:2.3 & 1:1.8 <MF-07>

22	ഹ	16	7	0	0	0.0250	1.0000
NUMBER OF NODAL POINTS	NUMBER OF DIFFERENT MATERIALS	NUMBER OF ELEMENTS	NUMBER OF SURFACE LINES	NUMBER OF WATER POINTS	NUMBER OF PORE PRESSURE POINTS	ACCELERATION OF EARTHQUAKE	UNITE WEIGHT OF WATER

MATERIAL PROPATY

WEIGHT (WET) WEIGHT (SAT) ACC. FACTOR PORE. FACTOR 0.0000 0.000 1.000 1.000 1.000 (T/M3)2.23 2.23 1.80 ----GROUP (2) -----60.000 60.000 160.000 Y-COOR (T/M3)1.93 1.93 1.72 2.13 X-COOR 100.000 230.000 100.000 FRICTION (DEGREE) 30.0 40.0 36.0 30.0 20.000 20.000 140.000 COHESION (T/M2) ----GROUP (1) -----Y-COOR 00000 X-COOR -100.000 0.000 DATA OF SLIPPE CIRCLE TYPE 00000 OUTLINE OF GRID NUMBER

0.000

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:00E+01)	* * * * * * * * * * * * * * * * * * *					
0 0 0 0 0 00E-01)X+(-6.200E+01	* * * * * * * * * * * * * * * * * * *					
20.0 20.0 10.0 5.0 Y=(0.000E	* * * * * 0 . 0 * * *	组织	0000	00000		00000
ACE	*******	Y-COORDINATE (M)				0000000
AL(X)	TYPE -1	F NODAL POINT X-COORDINATE (M)	43.70 -93.15 114.90 122.90		1000000	000000000000000000000000000000000000000
ERV? ERV? ERV? IG HE	NUMBER 1	INATE O	H 00 m 4 m	1 W C W O C	୨ <i>୦ ୯ ୯ ୩ ୯ ୩ ଦ</i>	L 8 0 0 H 0
THE INT THE INT THE INT STOPPIN START I		COORD			ਜਿਜੇ ਜਿੰਜੇ ਜਿੱਜੀ	

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_ 1	61		ы	4,	ო	13	ო	74	S	Н	œ	9 년	-1	17	20	20	18	19	19
(NODAL NUMBER)	20		X	vo	۲	21	~	22	다 다	г. С	22	o	16	10	17	84	17	12	12
(NODAL	2 1		ט	ွဟ	Ø	7	13	21	13	7	14	σ.	15	ത	16	1.7	10	11	18
DATA	m		н	4	゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙	ന	ო	13	7	Н	15	45	H	16	: I	20	17	8 ₹	
SURFACE	₹'	DATA	Edaki	7	ιń	7	7	ਚਾ	N	7	7	m	ന	-1	, ,	m	m	2	7
GROUND SI	Ŋ	ELEMENT	ELEMENT		2		4	Ŋ	G		00	თ	10	11	12	හ ප්	14		16

TRO DAM FUTURE EXT. AFTER COMPLETION. 1:2.3 & 1:1.8 <MF-07>

ο	ທ	ហ	0	0		0	0	ហ	ر ا	r)	ιΩ	Ŋ	ιŲ	'n	ω. Ω	'n	'n	S	ហ	0		
FACTOR (SEISMI	1.80	1.80	0	100.00	0.00	0.00	0		ω		φ,		1.80				1.80			100.00	1.42	
SAFETY (NORMAL)	1.930	1.930	100.001	100.001	0	100.000		3	. 93	ŝ	σ.	1.930	က		ന	ന	ന	ന	ന	100.000	Н	
GRA. OF SLOPE	. 43	7		0		0.00.0	0.000	0.435	0.435	.43	.43	.43	.43	43	0.435	.43	. 43	.43	.43		0.556	
FRICTION G	സ	$^{\circ}$	0.577	ന	.83	0.839	.83	.83	.83	.83	0.839	83	.83	.83	83	.83	.83	83	.83	0.577	3	
ACCEL	.02	.02	0.025	.02	.02	0.025	.02	.02	.02		.02	0.025		0.025	.02	.02	0.025	.02	.02	0.025		
WEIGHT (SAT)	2.370	٠,	1.800	٠,	٠.,	2.370	٠.,	٠.,	```	.,	.,		2.370			٠.,	,	.,		1.800	.,	
WATER	Н		Н	r-t	-4	1	٦	-	<b>~</b> 4	<del>, - 1</del>	ᄀ	rt	⊣	~	r-1	Н	H	гН	Н		. et	
MAT	~	7	ഗ	~	~	7	7	۵,	8	7	7	7	7	7	8	7	2	7	7	Н	7	
INATE (PERIOD)	5.90	2	-114.900		4.	m	•		•	-15.525	•	-0000-9-	-0.050	00	21.000	.52	.52	0.2	43.700	53.700	222.900	
X-COORDINATE (START) (PERI	-190.750		-122.900	-114.900	ㄹ		8		54	(*)	. 52	O١	-6.000	-0.050	15.000		•	.52	9.02	ന	53.700	
	٠.									٠								-				
BLOCK	٦	7	m	4	ហ	S	7	ω	თ	10	턴	12	13	14	15	9 H	17	18	о Н	20	21	
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#### (NORMAL) (MOST DANGEROUS SLIPPE CIRCLE)

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CALCULATION NUMBER	138		
SLIPPE CIRCLE(X-COORDINATE)	-20.000 80.000 92.000	(x (	
SAFETY FACTOR (NORMAL CONDITION)	1.543 1.435		
RESISTANCE MOMENT (TOTAL:NORMAL)	61698. 61066. 0.00 779.13 0.00 -108.50	(TON*M) (TON) (TON) (TON) (TON) (TON) (TON)	•
SLIDING MOMENT (TOTAL:NORMAL)	39987. 42560. 434.64 0.00 27.97	(TON*M) (TON*M) (TON) (TON) (TON)	

\* MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM FUTURE EXT. AFTER COMPLETION. 1:2.3 & 1:1.8 <MF-07>

UMBER	нннн	SLIPPE COORDINAT X	PPE CIRCLE INATE	RADIUS	ннн	SAFETY FACTOR	S T A T I C M O M E N RESISTANCE	SLID	ннн	SAFETY FACTOR	DYNAMIC MOMEN RESISTANCE	T SLIDING
! 	; → ++ !	00.00	00	2.00	! -	84	399	1 0	)   	58	208	159
	Н	00:00	0.00	2.00	Н	.25	202	420	H	60.	172	516
	H	00.00	0.00	02.00	щ	.16	365	941	H	10.	303	131
	Н	0.00	0.00	00,	H	급.	1160	274	F~t	.97	1049	909
4	Н	00.00	00.00	42.00	H	.08	7932	590	н	.94	7752	124
۲~	н	100.00	0.00	62.00	H	90.	029	3061	ы	92	755	3867
0	H	00	140.000	82.	H	2.021	380919.	188519.	н	1.885	377084.	200084.
ന	Н	0.00	0.00	00.	H	12	778	715	H	.98	721	387
G	₩	0.00	0.00	2.00	Н	.09	793	141	ы	. 95	685	463
0	Н	0.000	0.00	2.00	н	.98	073	550	H	85	04I	642
4,	н	0.00	0.00	12.00	H	.98	300	170	н	.85	233	357
۲.	H	0.00	00.00	42.00	H	.88	5750	9006	H	7.5	5396	0184
 ,⊢	H	0.00	0.00	2.00	١щ	.79	600	391	۶H	. 67	152	994
9	H	0.00	40.00	72.00	H	.85	5193	3617	H	.72	4933	4430
	H	0.00	0.00	2.00	н	. 12	344	574	ы	.97	311	673
4.	H	0.00	00.0	2.00	н	60.	954	325	н	.94	884	532
<b>(</b> -	H	0.00	00.0	02.00	Н	ω Θ	9087	4692	н	8,4	8824	5664
	H	0	0.00	2.00	H	9	766	826	H	.81	398	216
G	1-1	0.00	00.00	32.00	H	.70	3680	3881	н	. 58	3444	4751
t	1-4	00.	0.00	52.00	н	.77	2668	8449	н	. 64	2348	647
7	. ⊢;	0.00	40.00	62.00	Н	. 69	5278	990	н	.58	5118	535
2	H	00.	00.	2.00	н	. 12	712	07	ы	16	695	58
. 6	<b>!!</b>	00.	0.00	2.00	н	.97	2820	483	ы	.83	2708	921
-	<b>.</b> 1~	00.	0.00	2.00	Н	.80	8816	435	н	.67	8648	142
٠,	: <b>:</b> H	0.00	0.00	02.00	H	. 65	822	524	H.	.54	713	930
20	· }	00	00.00	22.00	Н	.54	4590	427	Н	43	4441	0038
	ι Η	0.00	20.00	00	H	.80	2665	34	H	.67	Ñ	8
114	ı.	0.00	00 0	52.00	H	.64	390	7	ы	. 52	303	436

20650.	44182.	25113.	42560.	61166.	79280.	23489.	10111.	25814.	12721.	21033.	29365.	36523.	42714.
38399.	69198.	43083.	61066.	97977	147361.	36045.	15768.	38583.	18443.	31397.	54956	80639	107895.
1.860	1.566	1.716	1,435	1.602	1.859	1.535	1.560	1.495	1.450	1.493	1.872	2.208	2.526
H	н	н	H	H	н	<b>⊢</b> 4	н	н	н	ы	н	н	H
19263.	41304.	23656.	39987.	57205.	73716.	21971.	9392.	24059.	11959.	19632.	27181	33482.	38767.
38713.	69813.	43514.	61698.	98957.	148714.	36410.	15897.	38950.	18634.	31709.	55441.	81262.	108632.
2.010	1.690	1.839	1.543	1.730	2.017	1.657	1.693	1.619	1.558	1.615	2.040	2.427	2.802
H	H	н	ы	н	н	H	н	н	H	н	н	н	н
42.000	62.000	72.000	92.000	112.000	132.000	142.000	32.000	52.000	62.000	82.000	102,000	122.000	142.000
20.000	40.000	60.000	80.000	100.000	120.000	140.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000
-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	0.000	000.0	000.0	0.000	000.0	0.00.0	000.0
H	н	Н	н	<b>1</b> -4	⊢ţ	ы	H	. Н	н	H	Н	Н	.⊢;
119	125	132	138	144	150	157	163	169	177	184	191	198	205

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* (MOST DANGEROUS SLIPPE CIRCLE) (NORMAL)

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COMPLETION.	
AFTER (	
EXE	
FUTURE	
TRO: DAM	

CALCULATION NUMBER	160	
SLIPPE CIRCLE (X-COORDINATE)	200.000	(M)
-DO- (Y-COORDINATE)	140.000	(M)
-DO- (RADIUS)	182.000	(M)
SAFETY FACTOR (NORMAL CONDITION)	1.533	
-DO- (SEISMIC CONDITION),	1.446	
OPSITE TOWN MOMENT (TOTAL - NORMAL)	84668	(M*NOF)
1		(** **) * '
-DO- ( -DO-:SEISMIC)	83208.	(M*NOL)
RESISTANCE FORCE (COHESION)	0.000	(TON)
-DO- (FRICTION: BODY FORCE )	465.21	(NOI)
-DO- ( -DO- :WATER PRESSURE)	00.0	(HOL)
-DO- ( -DO- :PORE PRESSURE)	00.00	(TON)
-DO- :EARTHQUAKE )	-6.36	(NOL)
	( ( ( 1	
SIIDING MOMENT (TOTAL:NORMAL )	-55220.	(XXNOL)
-DO- ( -DO-:SEISMIC)	-57742	(HON*M)
SLIDING FORCE (BODY FORCE)	-303.40	(NOH)
-DO- (WATER PRESSURE)	00.00	(LON)
-DO- (EARTHQUAKE)	-13.86	(NOL)

TRO DAM FUTURE EXT. AFTER COMPLETION. 1:2.3 & 1:1.8 <MF-07>

NUMBER	i ! ! H H H !	SLIPPE COORDINATE	PE CIRCLE NATE Y	RADIUS	i ! ! ! ! H H H ) !	SAFETY	S T A T I C M O M E I	DNIQITS E N	     	SAFETY	ATH	T SLIDING
9	! ! -	00.00	10,	72.000	  -       	1 8	10		! 	7.	0	-44665.
ლ	⊬	100:000	80.000	0	H	1.779	ထ	545	н	1.668	27167.	62
20	H	00.00	0.00	02.0	H	90	888	to	H	.92	840	-25154.
27	Н	00.00	20.00	00	ьij	38	271	050	н	20	209	276
34	. H	00.00	40.00	42.00	<b>⊢</b>	70	827	635	н	.47	7	94
41	Н	00.00	0.00	62.00	н	9	2512	141	ъ÷	74	2429	534
ধ	н	20.00	60.00	82.00	Н	89	895	458	н	.58	9,	783
52	ļΗ	20.00	0.00	.00	Н	5.0	172	633	н	.49	.17	757
58	Н	20.00	00.00	12.00	н	74	033	597	н	.64	338	839
64	Н	20.00	20.00	32.00	Ĥ	9	482	358	н	.83	352	738
7.0	н	20.00	00	0.	ы	1.3	S	92	ы	.04	7181	422
77	H	20.00	60.00	62.00	Н	03	53	0.4	ы	ω.	173	173
ਦ 8	ы	40.00	0.00	92.0	ы	. 64	504	203	H	.54	332	9
86	Н	40.00	0		<b>1~4</b>	5	52611.	361	<b>!-</b> !	47	8	28
16	н	40.00	00.00	22.0	۶H	S	0810	6740	н	. 51	0668	7063
96	Н	40.00	20.00	12.0	H	5	395	146	н	. 62	384	63
	Н	40.00	40.00	52.0	<b>1-</b> -i	9	5164	3208	H	.78	4892	3969
	Н	40.00	0.0	٠,	н	.78	772	514	H	.67	7980	4760
	Н	90.09	60.00	0.7	н	છ	288	99	Н	55	275	452
	Ή	60.00	0.00	12.0	ы	5	147	127	н	4	361	319
	H	90.00	00.00	32.0	H	'n	(,,	-82849.	H	w	2837	67
	Η	60.00	20.00	52.0	н	9	2171	713	H	55	1887	376
	н	00.09	0.0	72.0	H	.72	689	8925	H	62	295	9
	H	60.00	60.00	82.0	H	ý	1976	300	н	35.	182	99
	Ή	80.00	ŏ	12.0	H	હ	9343	90	H	'n	606	482
	, J~I	80.00	0.0	22.0	ы	ĸ.	787	992	н	4	687	5224
	н	80.00	0.00	42.	H	ñ	186	$\infty$	H	4	98	138
142	н	80.08	0.0	62.0	ы		5985	-165097.	н	4,	563	72

	.254848.	-102963.	5987.	-62393.	7463.	5140.	1742.	-121451.	3337.	3697.	5008.	1206.	-67841.	-138003;	-79055.	155979.
	-25,	701-	-2(	-63	-11	-19	.5	-12.	133	-7;	-13	-25	9	-13	-7.	-15
	90073.	51434.	39381.	31634.	13338.	90508.	33509.	176532.	18612.	8119.	98980	27202.	98117.	0544.	14334.	226620.
	<u>8</u>	러	(*)	O1	17	2	w	17	4	7	57	32	O1	26	77	22
	1,531	1.471	1,459	1.469	1.476	1.481	1,446	1,454	1,458	1.467	1.474	1.479	1,446	1,453	1.446	1.453
	ы	H	H	Н	ы	н	H	Н	Н	н	H	Н	H	H	н	ŀН,
	-243039.	-98383.	-25797.	-59625.	-112228.	-187368	-55220.	-116119.	-31869.	-70431.	-128999	-211325.	-64878.	-131946.	-75601.	-149134.
	395154.	153495.	39922.	92885.	175693.	294439.	84668.	178968.	49281.	109596.	201686.	331635.	99478.	203312.	115920.	229748.
	1.626	1.560	1.548	1.558	1.565	1.571	1.533	1.541	1.546	1.556	1.563	1.569	1.533	1.541	1.533	1.541
-	1-4	H	H	ы	H	ጉዛ	i-d	H	<b>1</b> —1	ы	н	H	 	Н	н	н
	182,000	192.000	112,000	132,000	152.000	172,000	182.000	202,000	122.000	142.000	162.000	182,000	192.000	212,000	202.000	222.000
	140.000	160.000	60.000	80.000	100.000	120.000	140.000	160.000	60.000	80.000	100.000	120.000	140.000	160.000	140.000	160.000
	180.000	180.000	200.000	200.000	200.000	200.000	200.000	200.000	220.000	220.000	220.000	220.000	220,000	220.000	240.000	240.000
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TRO DAM FUTURE EXT. AFTER COMPLETION. (U/S) 1:2.5 <MF-08>

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NUMBER OF NODAL POINTS	NUMBER OF DIFFERENT MATERIALS	NUMBER OF ELEMENTS	NUMBER OF SURFACE LINES	NUMBER OF WATER POINTS	NUMBER OF PORE PRESSURE POINTS	ACCELERATION OF EARTHQUAKE	UNITE WEIGHT OF WATER

#### MATERIAL PROPATY

æ			٠.									
PORE.FACTO	0.300	000.0	0.000	000.0			-					
ACC.FACTOR PORE.FACTOR	1.000	1.000	1.000	1.000		. *1.						
WEIGHT(SAT) (T/M3)	1.80	2 2 2	2.23	1.80	÷				. •			
WEIGHT (WET) (T/M3)	1.72	უ რ ქ ი ე ო	1.93	1.72			GROUP (2)	,,,			000.000	
FRICTION (DEGREE)	30.08	36.0	36.0	30.0	:		GRC	X-C00F	0.000	0.000	000.0	00.00
COHESION (T/M2)	0.0	0.0	0.	0.0			GROUP (1)	Y-COOR	20.000	20.000	140.000	140,000
SAZE	7 .		0	0	PE CIRCLE	RID	GROU	X-COOR	-100.000	0.000	00000	-100.000
	` ₊≓ (	N Ø	) ধা	ហ	0	OUTLINE OF GRIE	NUMBER			2	က	4
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200E+01) ************************************	)																			-		
.0 .0 .0 000E-01)X+(-6.200E+01.2 .** *********************************																						
20.0 20.0 10.0 10.0 Y=( 0.0001 *********************************			ជា	. 0	. 0	o			0 5		0.	. 0	0	.0.	.0.	. 00	0	0.0	ő	. 00	0.0	0.0
## ## ## ## ## ## ## ## ## ## ## ## ##			Y-COORDINATE (M)	ο.		20				່ດ	ഗ	•	4 🕁	বা	0.9	6.0	9	-16.00	S	19,00	-62.00	-62.00
FROM SUR RCLE ED CONDI	ž		X-COORDINATE (M)	47.50	1,25	ဖွဴက	5	34,	-120,000 -120,000	) 0	4		9 0	ä		0	15,000	1.0	70	57,500	-113.077	-33.025
THE INTERVAL(X). THE INTERVAL(X). THE INTERVAL(X). STOPPING HEIGHT START LINE OF CI NUMBER OF LIMITT NUMBER OF LIMITT 1	COORDINATE OF	<b>1</b>	X TNIOA	ed	2 0	) d	' ທ	9	7 0	ാത	10	ਜ਼ ਜ਼ ਜ਼		14		16					21	
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(NODAL NUMBER)	20		×	9	7	21	7	14	14	년 2	22	Ø	91	01	17	19 13	~! ~-i	12	12
	2 1		ניו	w	Q	<u></u>	33	22	13	7	74	တ	ያ ተ	a,	9	17	10	17	7 5
DATA	<u> </u> က		ы	4	4	ന്	M	21	~	<sub>7</sub> -1	45	5	<b>,_!</b>	16	<del>,                                    </del>	20	17	18	50
SURFACE	! ! &	DATA	TYPE	2	មា	2	~	ব	N	7	~	ന	ന	ᡤ	гH	ന	ന	N	α.
GROUND	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ELEMENT	ELEMENT	<del>,  </del>	8	ო	ব	ഗ	Q	7	63)	თ	j.O	ĦĦ	12	⊛ ⊟	14	15	16

TRO DAM FUTURE EXT. AFTER COMPLETION. (U/S) 1:2.5 <WF-08>

FACTOR (SEISMIC)	1,805	1.805		100,000	100,000	100,000	100,000	1,955	1,955	1,955	1,955	1,955	1.955	1.955	1.955	1.955	1.955	1,955	1,955		1.425
SAFETY (NORMAL)	1.930	1.930	0.00	100.000	100.000	100.000	100.000	2.098	Q)	-	0.0	a)	2.098	$\circ$	2.098	0.0	90	60	2.098	100,000	1.510
GRA. OF SLOPE	0.435	0.435	0.000	000.0	0.000	000.0	000.0	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400		0.556
FRICTION	0.839	ന	0.577	83	ന	. вз	83	.83	83	0.839	.83	83	.83	.83	. 83	.83	.83	83	83	0.577	0.839
ACCEL	0.025		0.025	0.025	.02	.02	•		. 02	.02	0.025	0.025	.02		0	0.2	02	.02		0.025	0.025
WEIGHT (SAT)	.37	.37	φ.	.37	.37	.37	. •	37	.37	2.370		.37	•	.37	.37	.37	.37	.37	.37	1.800	2.370
WATER	H	г	<b></b> 1	러	М	÷	,-	<b>-</b> -	r-t	٠,	a		~	H	e-f	H	₽	<b>~</b> 1	гł	러	₽,
MAT	<b>~</b>	7	ស	0	7	7	2	7	<b>~</b> :	Ο,	7	~	2	0	8	~	8	7	2	<b>⊢</b> 1	7
(PERIOD)	-134.000	-131.000	N	-120.000	-113.077	02:00	25	41.02	-33,025	75.	9.52	-6.000	-0.050	Ď,	0	4.52	0.52	. 52	. 50	57.500	226.700
X-COORDINATE (START) (PERIO	-198.850	-134.000	-131.000	-123.000	-120.000	113	2	-101.250	1-1	-33.025	G)	-9.525		-0.050	15.000		4.52	. 52	39.525	47.500	57.500
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# STABILITY ANALYSIS (MOST DANGEROUS SLIPPE CIRCLE) (NORMAL)

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171	0.000 40.000 52.000	1.597	35628.	35318.	00.00	862.74	00.0	-177.58	-5.98	22312.	24034	429.07	00.0	33.13	
CALCULATION NUMBER	SLIPPE CIRCLE(X-COORDINATE)	SAFETY FACTOR (NORMAL CONDITION)	RESISTANCE MOMENT (TOTAL:NORMAL )	-DO- ( -DO-:SEISMIC)	RESISTANCE FORCE (COHESION)	-DO- (FRICTION: BODY FORCE )	_	-DO (PORE PRESSURE)	-DO- :EARTHQUAKE )	SLIDING MOMENT (TOTAL: NORMAL )	-DOSEISMIC)	RCE (	-DO- (WATER PRESSURE)	-DO- (EARTHQUAKE)	

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MINNIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM FUTURE EXT. AFTER COMPLETION. (U/S) 1:2.5 <WF-08>

YNAMIC	M M M	ESISTANCE SLID	4209.	9704. 2	8517. 421	43424. 6	207. 1047	12646. 1513	32522. 209	2232. 332	1677. 107	5223. 223	1592. 404	96994. 2050	6327. 2710	6349. 3420	0712. 187	0385. 378	13556.	26207. 2182	55988. 1459	9257. 1942	68172. 93	9995. 92	36783. 678	98521. 1080	7260. 671	52983. 975	4874. 1303	
Д	ΣŢ	FACTOR R	1. 1. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5. 1. 5	.12	1.10	.08	.07	90.	90.	.17	.01	.01	.01	. 93	.83	16.	7.0	. 12	2.018	. 95	.75	- 69	.80	.15	.01	.83	.74	56	α	
ы	н	H }	! ! -	н	Н	Н	H	н	H	н	н	н	H	н	H	Ħ	H	H	н	Ħ	H	H	H	н	H	H	j-i	Н	H	
	HZ	SLIDING	049	192	948	447	817	189	S)	103	008	103	795	9211	374	1976	756	544	449	0355	673	8169	771	67	316	690	9	131	162	
STATIC	M M M	RESISTANCE	442	910	934	4477	926	1562	9	288	188	566	238	0063	083	6219	108	112	316165.	2974	5834	226	6979	017	3788	0014	834	443	269	
	AFET	FACTOR	i ω	.28	.26	24	.23	. 22	.21	.34	.17	.17	,17	.08	.97	.07	.33	23	2.182	.11	.88	.82	.93	.32	1.8	.98	.88	60	98.	
н	н	н	- 	н	н	н	н	н	ы	н	н	н	Н	н	H	н	Н	<u>-</u>	1-1	Н	ы	H	Н	<b>i</b> -i	H	н	ы	<b>}</b>	1-4	
	RADIUS		2.00	2.00	02.00	22.00	2.00	62.00	82.00	2.00	2.00	2.00	12.00	42.00	2.00	82.00	2,00	2.00	102.000	22.00	32.00	2.00	62.00	2.00	8	2.00	02.00	22.00	0.	
SLIPPE CIRCLE	NATE	×	00.0	0.00	00.0	00.0	00.0	20.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	40.00	0.00	0.00	60.000	0.00	00.00	0.00	40.00	0.00	0.00	0.0	00.0	00.00	00	
SLIP	COORDINAT	× .	00.00	0.00	00.00	100.00	00.00	100.00	00.0	80.00	0.00	0.00	0.00	0.00	00.0	0.00	60.00	0.00		0.00	0.00	0.00	60.0	0.0	0.0	0.0	0.0	0.0	0	
н	Н С	H H	i   -1  -1 	Н	н	Н	ЬЧ	I	H	Н	Н	Н	Н	Ы	Н	ы	ы	}~-{	ŀ÷l	1-1	H	H	<b>;</b>	H	i <b>)</b>	ŀ	F-	Н	ı <sub>1</sub>	!
٠.	NUMBER	· · · ·	<u>ე</u>	w	o,	12	15	18	21	24	28	32	36	σ, (۲)	43	47	52	98	5.9	63	69	7.4	8	80	) Ø	9 6	. 0	Ç	110	١

	19883.	42139.	71362.	39992.	57982.	77247.	94578.	9453.	24034.	11014.	19259.	27840.	35762.	42654.	
	40753.	72389.	127441.	63561.	91388.	143893.	198420.	16205.	35318.	18676.	29556.	49965	76031.	103823.	
	2.050	1.718	1.786	1.589	1.576	1.863	2.098	1.714	1.469	1.696	1.535	1.795	2.126	2.434	
	н	H	ы	H	ы	H	н	H	ы,	<b>;</b> —(	н	H	H	ы	
	18442.	39194.	66393.	37451.	54087.	71734.	87303.	8739.	22312.	10327.	17963.	25787.	32848.	38821.	
	41057.	72973.	128526.	64165.	92249.	145185.	200057.	16326.	35628.	18852.	29836.	50407.	76632	104554.	
	2.226	1.862	1.936	1.713	1.706	2.024	2.292	1.868	1.597	1.825	1.661	1.955	2.333	2.693	
	н	H	н	<b>)-</b> 1	н	ы	н	н	н	ЬЧ	н	н	н	н	
	42.000	62.000	82.000	92.000	112.000	132.000	152.000	32.000	52.000	62.000	82.000	102.000	122.000	142.000	
	20.000	40.000	000.09	80.000	100.000	120.000	140.000	20.000	40.000	000.09	80.000	100.000	120.000	140.000	
	-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	-20.000	000.0	0.000	000.0	000.0	000.0	000.0	000.0	
	⊣	μŧ	н	H	н	Н	⊬⊣	н	H	н	H	ڄ	н	H	
(	77	.28	(J)	4.1	147	53	.59	65	171	178	185	192	199	902	

LIST OF INPUT DATA

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TRO DAM FUTURE EXT. FLOOD WL.212.5 1:2.3 & 1:1.8 <MF-09>

NUMBER OF NODAL POINTS.  NUMBER OF DIFFERENT MATERIALS.  NUMBER OF ELEMENTS.  NUMBER OF WATER POINTS.  NUMBER OF PORE PRESSURE POINTS.  ACCELERATION OF EARTHQUAKE.  UNITE WEIGHT OF WATER.	26	ហ	· 6년	`	'n	0	0.000.0	1,0000
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MATERIAL PROPATY

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	1 1 1 1 1	(1/M2)	(DEGREE)	(T/M3)	(T/M3)		101111111111111111111111111111111111111
ਜ :	0	0.0	30.0	1.72	1.80	1.000	0.000
2	0	0.0	40.0	2.13	2.37	1.000	000-0
ന	0	0.0	36.0	1.93	2.23	1.000	0.000
4	0	0.0	36.0	1.93	2.23	1.000	000.0
ιΩ	0	0.0	30.0	1.72	1.80	1.000	000.0
DATA OF SLIPPE	SLIPPE CIRCLE						
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
OUTLINE OF	OF GRID						
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Addition	! !	XXXXXXXXXXXX	X-COOR	R Y-COOR			
	1 -100,000	20,000	100.00				
	2 0000	20,000	230,000				
٠	3 0.000 E	<del>,</del> ⊢1	230.000	000.091 0			
	4 -100 000		100.000	000.091 0			

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.0 .0 .0 000E-01)X+(-6.200E+01	* * * * * * * * * * * * * * * * * * *				÷					•				-									-		. :		
20.0 20.0 10.0 5.0 x=(0.000E	***************************************		El El			0	. 0	0		0	0	0	0	0		် ဝ <b>(</b>	ာင္	0	Q.	0	Q.	Ö	00	00	0	0	000
SNO	**************************************		Y-COORDINATE	(M)	19.00	. 50	. 50	0.50			Ţ.	~	•	S.	ი ი	77.0	154.00	-16.000	Ś		0.9	•	0	N.	0 1		
AL(Y)	TYPE *	NODAL POINT	X-COORDINATE	(W)	43.700	е С	14.	22.	90	10	$\dashv$	'n	σ,		ં.	<u>ത</u>	193.900	ı vo	-0.050	ιΩ.	1.00	222.900	3.70	4.97	33	0.00	40.575
THE INTERVAL(X). THE INTERVAL(X). THE INTERVAL(R). STOPPING HEIGHT START LINE OF C. NUMBER OF LIMIT	NUMBER 1	COORDINATE OF	OINT		۳·۱	7	ത്	ď	S.	9	7	æ	თ	10	11	12	m d	ហ	16	17	18	6 다			22		24
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<u></u>	000	CNODAL	7	AL NUMBE	61 19		ந	ហ	<u>ဖ</u> ်	7	77.	9 t	22	ب ال	14	22	φ 'u	) တ (	10	77	⊃ ;	금 188 금 급	5 P
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	,	SURFACE	<b>4</b> '	LINE DATA	24	DATA	TYPE	7	Ŋ	7	C) C	<b>V</b>	<b>Д</b> Г (	v (4	7	7	m m	) r-l	Н	က်ဖ	ກ (	7 0	1 🗸
		i L	นา	1	23	ELEMENT	ELEMENT		2	m	4.6	n '	100	~ &								/ E	
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TRO DAM FUTURE EXT. FLOOD WL.212.5 1:2.3 & 1:1.8 <MF-09>

FACTOR (SEISMIC)	1	. 93	1,930	00.00	00.00	00.	00.00	00.00	8	. 93	. 93	. 93	93	ტ ტ	9	ტ ტ	9.	6	1.930	9	(")	9	6	00.00	0.	00.00	00.00	.5
SAFETY (NORMAL)	ł	93	9	00.00	00.00	00	00.00	00.00	8	9	93	9	8	9	9	9	6	9	1,930	6	6	ō	o,	00.00	ŏ.	00.00	00.00	S
GRA. OF SLOPE	į.	43	4	00	9	00	00	00	2,3	4	4	0.43	4.	43	4	4	4	4	0.435	4	4	4	4	ŏ	ŏ	ŏ,	ĕ	'n
FRICTION G	1	83	83	57	83	83	83	83	83	83	83	83	83	83	83	8	ω	ω	0.839	æ	ω	8	œ	ស	ρÚ	'n	J	œ
ACCEL	ı	0	0	0	0	0	0	0	0	0	0	$\circ$	0	٠.	٥.	٠.	$\sim$	٠.	0.000	٧.	$\sim$	$\sim$	$\sim$	~	~,	۲,	٦.	~
WEIGHT (SAT)		37	37	80	37	37	3	37	3	3	37	5	37	3	37	3	S	37	2.370	ω.	37	5	Ę	8.	æ.	8	8.	'n
WATER	ī	-1	<b>٢</b>	7	다 1	H	H.	-1	, -{ 	 1	7	근	딕	런	<b>⊢</b>	ᅼ	러 1	Ħ	<del></del>	<b>⊢1</b>	r-1	1	1	i	p-4	н	-1	ក .
MAT	0	2	7	S	2	7	7	7	2	2	. 5	63	63	2	7	2	63	N	7	2	2	~	2	Н	гН	<b>←</b> 1	r-1	~
)INATE (PERIOD)	0.75	25.9	2.90	14.90	11.90	04.97	3.90	3.15	1.02	3.02	8	Ω,	ŏ	0.0	5.00	1.00	4.57	0.52	37.950	9.5%	Ť	က်	3.7(	7	4	ű,	53.7	2.9
X-COORDINATE (START) (PERI	0.0	90.75	25.90	2.90	14.90	90.1	04.97	3.90	3.15	1.02	3.02	52	52	9.00	0.05	5.0	0.0	4.52	30.525	7.9	9.5	7.0	0.5	7.	5.4	4	47.500	.70
BLOCK	Н	7	m	4	ហ	φ	7	ω	o,	10	11			51 1	F-1		17	18	6 t	20	21	22	23	24	. 25	26	27	28

# STABILITY ANALYSIS (MOST DANGEROUS SLIPPE CIRCLE) (NORMAL)

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	i		i
CALCULATION NUMBER	177		
SLIPPE CIRCLE(X-COORDINATE)	0.000 60.000 62.000	(X) (X) (X)	
SAFETY FACTOR (NORMAL CONDITION)	1.831		
RESISTANCE MOMENT (TOTAL: NORMAL )	13680.	(TON*M)	
RESISTANCE FORCE (COHESION)	0.00 682.43	(TON)	
-DO- ( -DO- :WATER PRESSURE)DO- :PORE PRESSURE)DO- ( -DO- :EARTHQUAKE )	42.94 -504.72 0.00	(TON) (TON) (TON)	
SLIDING MOMENT (TOTAL:NORMAL)	7473. 7473. 272.00 -151.46	(TON*M) (TON) (TON) (TON) (TON)	
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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MINMIM SAFETY FACTOR AT EACH GRID POINT (NORMAL)

TRO DAM FUTURE EXT. FLOOD WL.212.5 1:2.3 & 1:1.8 <MF-09>

뭐	87	913	892	392	526	403	127		307	997	339	118	850	753	012	138	838	162	55,	37976.	687	510	28]	521	088	628	O.	212	
YNAMIC MOMEN RESISTANCE	169 169	Q)	093	175	1528	376	4486	116	342	11	52	3933	561	6548	153	57.5	957	297	6453	75337.	525	101	67(	60	578	$\approx$	088		
D SAFETY FACTOR	74	<b>5</b> 2	16	11	08	90	01	12	0	9	9	9	9	8	17	0	9	ŏ	ġ,	1.984	œ	H	õ	0	œ	ŏ,	က	α	
ннн	: 1 ∃ H	H	н	н	н	Н	н	н	Н	H	H	н	н	H	Н	н	Н	H	н	H	н	Н	H	М	H	Н	H	H	
SLIDING	1 0	913	892	392	526	403	127	9	307	997	039	138	850	753	012	138	838	162	554	37976.	68,	$\stackrel{\smile}{\sim}$	28.	52.	088	62	21918.	21	
S T A T I C M O M E N RESISTANCE	91	ທ	93	7.3	1528	76	4486	16	42	77	52	3933	1661	48	.51	173	357	2297	153	75337.	525	101	976	80	578	72	980	07.9	
SAFETY	74	25	9	7	0.8	90	0.1	12	0.0	86	8	6	9	8	12	0	6	9	9	1.984	æ	H	õ	0	α	σ		1.892	
нын	    -    -	н	н	ы	Н	ы	H	Н	H	H	<b>⊢</b> -l	H	Н	Н	H	Н	H	н	н	ы	н	Н	Н	н	Н	H	Н	H	
RADIUS	82.000	2.00	02.00	22.00	00	62.00	82.00	2.00	2.00	2.00	12.00	0	52.00	72.00	52.00	ŏ	2:00	2.0(	32.00	142.000	62.00	42.00	2.00	2.00	02.00	22.0	2.00	r)	
SE CIRCLE NATE Y	00.	00.0	00.0	00.0	00.00	00.0	40.00	N	0.00	0.00	0	00.00	20.00	0	20.00	0	0.0	ŏ	00.00	0.00	40.00	20.00	0.00	00.	0.00	00.00	0.0	40.00	4
SLIPPE COORDINA X			00.00	00.00	0.00	00.00	00.00	80.	0.00	00.0	80.00	00.0	္မ	80.00	00.0	60.00	50.00	0.00	0.00	-60.000	0	Ö	0,0	0.0	0	00.0	0.00	40.00	
	<u> </u>  -																												
NUMBER		Ŋ	ω	H	다	17	20	23	26	30	3.6	37	42	46	50	. N	58	9	99	72	17	82	87	92	97			114	

2198.	6886.	15180.	24251.	33847.	42728.	14175.	5568.	3116.	7473	11883.	16146.	19138.	21078.
4645	14269.	28916.	45366.	73585.	111452.	28524.	12044.	6408.	13680.	25039.	43954.	64957.	87426.
2.114	2.072	1.905	1.871	2.174	2.608	2.012	2.163	2.056	1.831	2.107	2.722	3,394	4.148
н	н	н	H	H	ы	·H	H	н	j <b>⊢</b> t	H	Ħ	H	н
2198.	6886.	15180.	24251.	33847.	42728.	14175.	5568.	3116.	7473.	11883.	16146.	19138.	21078.
4645	14269.	28916.	45366.	73585.	111452.	28524.	12044.	6408	13680	25039.	43954.	64957.	87426.
2.114	2.072	1.905	1.871	2.174	2.608	2.012	2.163	2.056	1.831	2.107	2.722	3.394	4.148
ы	ы	H	н	Н	H	⊢⊣	H	н	н	; 1-4	H	Н	H
32.000	52.000	72.000	92.000	112.000	132.000	142.000	32.000	42.000	62.000	82.000	102.000	122.000	142.000
20.000	40.000	000.09	80.000	100.000	120.000	140.000	20.000	40.000	.000.09	80.000	100.000	120.000	140.000
-20.000	-20,000	-20.000	-20.000	-20.000	-20,000	-20.000	000.0	000.0	000.0	0.000	000.0	000.0	0.000
ы	н	Ĥ	ы	1-4	<b>;</b>	H	.⊢;	Н	Н	ы	н	H	ы
120	126	132	138	144	. 0ST	157	163	170	177.	184	191	198	205

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CALCULATION NUMBER	160	
SLIPPE CIRCLE (X-COORDINATE)	200.000 140.000 182.000	(X) (X) (X)
SAFETY FACTOR (NORMAL CONDITION)	1,533	
RESISTANCE MOMENT (TOTAL;NORMAL )	84668. 84668.	(M*NOE)
FORCE (	00.00	(NOL)
-DO- (FRICTION: BODY FORCE )	465.21	(NOL)
-DO- :WATER PRESSURE)	00.0	(NOT)
-DO- :PORE PRESSURE)	00.0	(NOI)
-DO- ( -DO- :EARTHQUAKE )	00.00	(NOI)
SLIDING MOMENT (TOTAL:NORMAL )	-55220.	(TON*M)
-DO- ( -DO-:SEISMIC)	-55220.	(M*NOL)
SLIDING FORCE (BODY FORCE)	-303.40	(TON)
	0.00	(NOE)
-DO-		(ECS)

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TRO DAM FUTURE EXT. FLOOD WE.212.5 1:2.3 & 1:1.8 <MF-09>

UMBER	SLIPPE COORDINA X	SLIPPE CIRCLE ORDINATE	RADIUS	     HHH+	SAFETY	0 11	N T SLIDING	ннн	SAFETY	DYNAMIC MOMEN RESISTANCE	T SL
I I 9	00.00	00.0	10.	]     	. ~	054	-42254.	   	06	054	-42254.
	0	80.000	82.000	н	1.792	768	45	<b>}</b> ⊶	1.792	27689.	545
0	00.00	00.00	02.00	<b>1-1</b>	~~	Ö	364	∺	ത	960	-23646.
<u></u>	00.00	20.00	22.00	н	36	277	71	ы	36	277	071
4	00.00	00.0	2.00	н	.58	638	-37254.	H	.58	38	-
0	00.00	60.00	72.00	H	74	2206	$\infty$	ы	74	206	738
9	20.00	0.00	2.00	н	.68	106	458	н	68	060	458
C)	20.00	80.00	2.00	<b>-</b>	53	174	633	H	.58	174	633
œ	20.00	$\circ$	12:00	ы	.75	80798.	597	Н	.75	079	597
4	20.00	20.00	32.00	H	96.	524	69	Н	96.	24	m
0	20.00	40.00	2.00	ы	12	903	992	н	. 12	0	992
	20.00	60.00	62.00	ы	.07	240	043	1-1	·	240	
-1	40.00	0.00	2.00	н	.64	504	203	H	9	135044.	203
G	40.00	80.000	02.00	H	.56	52611.	-33614.	н	1.565	52611.	-33614.
-	40.00	00:00	2.00	Н	.60	0820	-67405.	Ы,	$\circ$	820	-67405.
Q	40.00	0.00	42.00	Н	74	676	0146	н	マ	919	0146
r t	40.00	40.00	62.00	Н	88	4970	265	Н	œ	9	65
0.2	40.00	60.00	72.00	1-4	.80	15	514	н	$\circ$	5	514
0.0	60.00	0.00	02.00	H	.63	288	996	н	.63	288	996
7	00.09	0.00	12.00	н	ŗ.	447	127	н	w	447	
8	00.09	00.00	32.00	H	.57	3011	284	н	.57	3011	8284
22	60.00	20.00	52.00	н	. 61	Н	713	н	~	221983.	-137138.
26	60.00	40.00	72.00	н	77	2804	8925	н	73	2804	8925
	60.00	0.0	182.000	H	39.	2023	-73007.	ы	1.647	120238.	300
	80.00	0.00	12.00	ы	. 62	34	00	Н	62	9343	-119062.
, v.	80.00	0.00	22.00	Н	30.	787	992	Ĥ	.56	787	992
) o	80.00	0.00	42.00	: ∺	5,	00	-96863.	н	w	88	-96863.
2 7	8	00	62.0(	H	'n	5986	20	H	Ŋ	5.98	n)
,											

-243039,	-98383,	-25797,	-59625.	-112228.	-187368.	-55220,	-116119.	-31869.	-70431.	-128999.	-211325.	-64878.	-131946.	-75601.	-149134.
395726.	153604.	39922.	92885.	175693	294439	84668.	178968.	49281.	109596.	201686.	331635.	99478	203312.	115920.	229748.
1.628	1.561	1.548	1.558	1.565	1.571	1.533	1.541	1.546	1.556	1.563	1.569	1.533	1.541		1.541
<b>.</b>	u		ы	Н	<b>31</b>	ы	ы		ĭ	н	Ħ	ы	ы	н	Ħ
-243039.	-98383.	25797.	-59625,	-112228.	-187368.	-55220.	-116119.	-31869	-70431	-128999.	-211325.	-64878.	-131946.	-75601.	-149134.
395726.	153604.	39922.	92885.	175693.	294439.	84668.	178968.	49281	109596.	201686.	331635.	99478.	203312.	115920.	229748.
1.628	1.561	1.548	1.558	1.565	1.571	1.533	1.541	1.546	1.556	1.563	7.569	1.533	1.541	1.533	1.541
H	ы	Н	1-4	н	1-4	н	Н	н	н	н	ы	Н	н	Ħ	н
182.000	192.000	112.000	132.000	152.000	172,000	182.000	202.000	122.000	142.000	162.000	182,000	192.000	212,000	202.000	222.000
140.000	160.000	60.000	80.000	100.000	120.000	140.000	160.000	60.000	80.000	100.000	120.000	140.000	160.000	140.000	160.000
180.000	180.000	200.002	200.000	200.000	200.000	200,000	200.000	220.000	220.000	220.000	220.000	220,000	220,000	240,000	240.000
н	ы	Ĥ	H	н	ы	<b>!-</b> 1	H	H	Н	н	Н	н	H	Н	ļ.
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TRO DAM FUTURE EXT. DESIGN FLOOD. WL.212.5 (U/S) 1:2.5 <MF-10>

NUMBER OF DIFFED NUMBER OF ELEMEN NUMBER OF SURFAC NUMBER OF PORE 1 ACCELERATION OF UNITE WEIGHT OF	NUMBER OF NODAL POINTS	OF DIFFERENT MATERIALS 5	ELEMENTS17	NUMBER OF SURFACE LINES7	NUMBER OF WATER POINTS 5	NUMBER OF PORE PRESSURE POINTS0	ACCELERATION OF EARTHQUAKE 0.0000	GHT OF WATER
NUMBER NUMBER NUMBER NUMBER NUMBER ACCELER	OF X	OF L		OF S	OF R	OF P	ATIC	EIGH
	NUMBER	NUMBER	NUMBER	NUMBER (	NUMBER (	NUMBER (	ACCELER	UNITE W

MATERIAL PROPATY

WEIGHT (WET) WEIGHT (SAT) ACC. FACTOR PORE. FACTOR 0.000 1.000 1.000 (T/M3)2.37 2.23 2.23 1.80 0.000.0 ----GROUP (2) Y-COOR (T/M3)2.13 1.93 1.93 x-COOR 0.000 0.000 FRICTION (DEGREE) 30.0 40.0 36.0 COHESION (T/M2) Y-COOR 20.000 20.000 140.000 -----GROUP (1) -----0.00 0.0 X-COOR -100.000 0.000 DATA OF SLIPPE CIRCLE TYPE 0000 OUTLINE OF GRID NUMBER ፈ, ቢ)

0.000.0