

Anexo D - Resultados das Simulações PHASTRISK

PHAST RISK INPUT

Societal Risk Ranking Report

Study Folder: Gasoduto do Pará

Unique Audit Number: 120.603



ist Risk Micro 6.54



Gasoduto do Pará

Societal Risk Ranking Criteria

Results from the following Run Rows make up this report:

Day
Night

All coordinates in this report are absolute, not relative to the Location Offset.

Sorting method: Alphabetically by model name
Max. fatalities for selected Rows: 168

Analysis of risk by weathers and directions:
Separate Analysis performed? No

Analysis of risk by model and location:
Separate Analysis performed? No

Aversion Index : 1,000000

Societal Risk Ranking Results

Column:	All Frequencies are /AvgeYear									
	East m	North m	Risk Integral /AvgeYear	Risk Integral Percent	Average Outcome	Zero Deaths	0-1	1-10	10-100	100-167,376
Fissura 45	216.808,70	9.545.589,21	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.812,50	9.545.501,57	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.816,97	9.545.398,55	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.821,22	9.545.300,38	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.825,55	9.545.200,64	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Societal Risk Ranking Report

Study Folder: Gasoduto do Pará

Unique Audit Number: 120.603



1st Risk Micro 6.54

Column:	1		Risk Integral /AvgeYear	Risk Integral Percent	Average Outcome	Zero Deaths	All Frequencies are /AvgeYear			
	East m	North m					0-1	1-10	10-100	100-167,376
Fissura 45	216.829,82	9.545.102,10	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.833,99	9.545.005,95	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.838,62	9.544.899,34	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.842,96	9.544.799,23	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.847,26	9.544.699,98	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.851,64	9.544.598,93	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.855,98	9.544.499,01	6.29568E-015	0,00	8.49620E-009	7.40837E-007	1.63072E-010	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.860,24	9.544.400,65	4.98624E-013	0,00	6.72907E-007	7.39435E-007	1.56549E-009	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.864,61	9.544.300,04	7.15302E-013	0,00	9.65320E-007	7.37967E-007	3.03314E-009	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.868,54	9.544.209,43	2.04245E-012	0,00	2.75635E-006	7.36349E-007	4.65123E-009	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.873,33	9.544.098,85	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.877,55	9.544.001,49	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	216.881,61	9.543.907,94	0.00000E+000	0,00	0.00000E+000	7.41000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Fissura 45	220.915,59	9.452.680,25	0.00000E+000	0,00	0.00000E+000	4.48000E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.808,70	9.545.589,21	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45										

Societal Risk Ranking Report

Study Folder: Gasoduto do Pará

Unique Audit Number: 120.603



1st Risk Micro 6.54

Column:	1		Risk Integral /AvgeYear	Risk Integral Percent	Average Outcome	Zero Deaths	All Frequencies are /AvgeYear			
	East m	North m					0-1	1-10	10-100	100-167,376
Furo 45	216.812,50	9.545.501,57	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.816,97	9.545.398,55	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.821,22	9.545.300,38	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.825,55	9.545.200,64	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.829,82	9.545.102,10	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.833,99	9.545.005,95	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.838,62	9.544.899,34	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.842,96	9.544.799,23	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.847,26	9.544.699,98	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.851,64	9.544.598,93	5.76455E-010	0,00	6.38378E-004	8.98432E-007	4.56760E-009	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.855,98	9.544.499,01	2.27722E-008	0,19	2.52183E-002	8.78646E-007	1.33619E-008	1.09921E-008	0.00000E+000	0.00000E+000
Furo 45	216.860,24	9.544.400,65	6.32697E-008	0,53	7.00661E-002	8.75516E-007	9.22707E-009	1.82572E-008	0.00000E+000	0.00000E+000
Furo 45	216.864,61	9.544.300,04	4.46282E-008	0,37	4.94222E-002	8.76289E-007	1.55065E-008	1.12046E-008	0.00000E+000	0.00000E+000
Furo 45	216.868,54	9.544.209,43	5.08361E-009	0,04	5.62968E-003	8.89569E-007	1.26825E-008	7.48165E-010	0.00000E+000	0.00000E+000
Furo 45	216.873,33	9.544.098,85	5.52515E-013	0,00	6.11866E-007	9.00377E-007	2.62315E-009	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	216.877,55	9.544.001,49	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Societal Risk Ranking Report

Study Folder: Gasoduto do Pará

Unique Audit Number:

120.603



1st Risk Micro 6.54

Column:	1		Risk Integral /AvgeYear	Risk Integral Percent	Average Outcome	Zero Deaths	All Frequencies are /AvgeYear			
	East m	North m					0-1	1-10	10-100	100-167,376
Furo 45	216.881,61	9.543.907,94	0.00000E+000	0,00	0.00000E+000	9.03000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo 45	220.915,59	9.452.680,25	0.00000E+000	0,00	0.00000E+000	3.64000E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.808,70	9.545.589,21	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.812,50	9.545.501,57	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.816,97	9.545.398,55	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.821,22	9.545.300,38	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.825,55	9.545.200,64	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.829,82	9.545.102,10	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.833,99	9.545.005,95	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.838,62	9.544.899,34	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.842,96	9.544.799,23	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.847,26	9.544.699,98	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.851,64	9.544.598,93	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.855,98	9.544.499,01	3.49671E-011	0,00	7.73608E-005	4.29400E-007	2.26000E-008	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert	216.860,24	9.544.400,65	8.93421E-011	0,00	1.97659E-004	4.29400E-007	2.26000E-008	0.00000E+000	0.00000E+000	0.00000E+000
Furo vert										

Societal Risk Ranking Report

Study Folder: Gasoduto do Pará

Unique Audit Number: 120.603



1st Risk Micro 6.54

Column:	1		All Frequencies are /AvgeYear							
East	North	Risk Integral	Risk Integral	Average	Zero Deaths	0-1	1-10	10-100	100-167,376	
m	m	/AvgeYear	Percent	Outcome						
216.864,61	9.544.300,04	8.96814E-011	0,00	1.98410E-004	4.29400E-007	2.26000E-008	0.00000E+000	0.00000E+000	0.00000E+000	
Furo vert										
216.868,54	9.544.209,43	8.38926E-011	0,00	1.85603E-004	4.29360E-007	2.26405E-008	0.00000E+000	0.00000E+000	0.00000E+000	
Furo vert										
216.873,33	9.544.098,85	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	
Furo vert										
216.877,55	9.544.001,49	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	
Furo vert										
216.881,61	9.543.907,94	0.00000E+000	0,00	0.00000E+000	4.52000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	
Furo vert										
220.915,59	9.452.680,25	0.00000E+000	0,00	0.00000E+000	1.32000E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura 45										
216.808,70	9.545.589,21	1.58085E-011	0,00	3.80927E-005	4.13173E-007	1.82658E-009	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura 45										
216.812,50	9.545.501,57	7.47570E-010	0,01	1.80137E-003	4.11956E-007	3.04351E-009	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura 45										
216.816,97	9.545.398,55	1.01115E-008	0,08	2.43650E-002	4.09841E-007	2.84547E-009	2.31392E-009	0.00000E+000	0.00000E+000	
Ruptura 45										
216.821,22	9.545.300,38	4.63663E-008	0,38	1.11726E-001	4.07012E-007	2.28399E-009	2.57907E-009	3.12462E-009	0.00000E+000	
Ruptura 45										
216.825,55	9.545.200,64	8.12764E-008	0,67	1.95847E-001	4.07010E-007	1.92888E-009	2.78647E-009	3.27440E-009	0.00000E+000	
Ruptura 45										
216.829,82	9.545.102,10	1.28752E-007	1,07	3.10247E-001	3.99651E-007	3.78904E-009	3.08102E-009	8.47903E-009	0.00000E+000	
Ruptura 45										
216.833,99	9.545.005,95	2.79517E-007	2,32	6.73536E-001	3.95104E-007	3.41657E-009	5.36033E-009	1.11188E-008	0.00000E+000	
Ruptura 45										
216.838,62	9.544.899,34	4.76244E-007	3,95	1.14757E+000	3.91451E-007	3.01935E-009	5.89989E-009	1.46298E-008	0.00000E+000	
Ruptura 45										
216.842,96	9.544.799,23	7.47129E-007	6,20	1.80031E+000	3.88086E-007	4.70650E-009	5.95682E-009	1.62503E-008	6.11600E-019	
Ruptura 45										
216.847,26	9.544.699,98	1.16255E-006	9,65	2.80134E+000	3.87732E-007	4.22636E-009	4.84537E-009	1.78083E-008	3.87588E-010	

Societal Risk Ranking Report

Study Folder: Gasoduto do Pará

Unique Audit Number: 120.603



1st Risk Micro 6.54

Column:	1		All Frequencies are /AvgeYear							
East	North	Risk Integral	Risk Integral	Average	Zero Deaths	0-1	1-10	10-100	100-167,376	
m	m	/AvgeYear	Percent	Outcome						
Ruptura 45										
216.851,64	9.544.598,93	1.66617E-006	13,83	4.01486E+000	3.87715E-007	2.34540E-009	3.54402E-009	1.35645E-008	7.83154E-009	
Ruptura 45										
216.855,98	9.544.499,01	1.70735E-006	14,18	4.11409E+000	3.74858E-007	1.34991E-008	4.42542E-009	1.67545E-008	5.46267E-009	
Ruptura 45										
216.860,24	9.544.400,65	1.50796E-006	12,52	3.63364E+000	3.73859E-007	1.51833E-008	2.25184E-009	1.77618E-008	5.94428E-009	
Ruptura 45										
216.864,61	9.544.300,04	1.32726E-006	11,02	3.19822E+000	3.74569E-007	1.58414E-008	6.98264E-009	1.36844E-008	3.92231E-009	
Ruptura 45										
216.868,54	9.544.209,43	1.00928E-006	8,38	2.43200E+000	3.82513E-007	1.47109E-008	4.84605E-009	9.55909E-009	3.37051E-009	
Ruptura 45										
216.873,33	9.544.098,85	4.20532E-007	3,49	1.01333E+000	3.87173E-007	1.33007E-008	4.43310E-009	1.00934E-008	0.00000E+000	
Ruptura 45										
216.877,55	9.544.001,49	1.35860E-007	1,13	3.27372E-001	3.89386E-007	1.38276E-008	7.56891E-009	4.21769E-009	0.00000E+000	
Ruptura 45										
216.881,61	9.543.907,94	1.85596E-008	0,15	4.47219E-002	3.95534E-007	1.43837E-008	5.08194E-009	0.00000E+000	0.00000E+000	
Ruptura 45										
220.915,59	9.452.680,25	0.00000E+000	0,00	0.00000E+000	1.21000E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura vert										
216.808,70	9.545.589,21	0.00000E+000	0,00	0.00000E+000	2.08000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura vert										
216.812,50	9.545.501,57	0.00000E+000	0,00	0.00000E+000	2.08000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura vert										
216.816,97	9.545.398,55	4.36609E-013	0,00	2.09908E-006	2.04915E-007	3.08521E-009	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura vert										
216.821,22	9.545.300,38	2.04709E-011	0,00	9.84176E-005	1.97600E-007	1.04000E-008	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura vert										
216.825,55	9.545.200,64	1.26329E-010	0,00	6.07350E-004	1.97600E-007	1.04000E-008	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura vert										
216.829,82	9.545.102,10	2.89757E-010	0,00	1.39306E-003	1.97600E-007	1.04000E-008	0.00000E+000	0.00000E+000	0.00000E+000	
Ruptura vert										

Societal Risk Ranking Report

Study Folder: Gasoduto do Pará

Unique Audit Number:

120.603



1st Risk Micro 6.54

Column:	1		Risk Integral /AvgeYear	Risk Integral Percent	Average Outcome	Zero Deaths	All Frequencies are /AvgeYear			
	East m	North m					0-1	1-10	10-100	100-167,376
	216.833,99	9.545.005,95	2.76825E-010	0,00	1.33089E-003	1.97600E-007	1.04000E-008	0.00000E+000	0.00000E+000	0.00000E+000
Ruptura vert	216.838,62	9.544.899,34	5.68944E-010	0,00	2.73531E-003	1.97600E-007	1.04000E-008	0.00000E+000	0.00000E+000	0.00000E+000
Ruptura vert	216.842,96	9.544.799,23	1.54709E-009	0,01	7.43793E-003	1.97600E-007	1.04000E-008	0.00000E+000	0.00000E+000	0.00000E+000
Ruptura vert	216.847,26	9.544.699,98	2.86275E-009	0,02	1.37632E-002	1.97600E-007	1.04000E-008	0.00000E+000	0.00000E+000	0.00000E+000
Ruptura vert	216.851,64	9.544.598,93	2.17320E-008	0,18	1.04481E-001	1.96306E-007	9.64049E-009	1.40765E-009	6.45927E-010	0.00000E+000
Ruptura vert	216.855,98	9.544.499,01	2.85046E-007	2,37	1.37041E+000	1.87418E-007	1.27748E-012	1.45105E-008	6.06998E-009	0.00000E+000
Ruptura vert	216.860,24	9.544.400,65	4.72910E-007	3,93	2.27360E+000	1.85081E-007	5.34034E-010	1.24025E-008	9.98215E-009	0.00000E+000
Ruptura vert	216.864,61	9.544.300,04	3.07053E-007	2,55	1.47622E+000	1.86619E-007	4.55836E-010	1.35370E-008	7.38825E-009	0.00000E+000
Ruptura vert	216.868,54	9.544.209,43	8.70470E-008	0,72	4.18495E-001	1.90890E-007	9.56727E-009	4.40286E-009	3.14005E-009	0.00000E+000
Ruptura vert	216.873,33	9.544.098,85	1.83788E-009	0,02	8.83595E-003	1.97600E-007	1.04000E-008	0.00000E+000	0.00000E+000	0.00000E+000
Ruptura vert	216.877,55	9.544.001,49	1.36735E-010	0,00	6.57378E-004	1.97600E-007	1.04000E-008	0.00000E+000	0.00000E+000	0.00000E+000
Ruptura vert	216.881,61	9.543.907,94	0.00000E+000	0,00	0.00000E+000	2.08000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Ruptura vert	220.915,59	9.452.680,25	0.00000E+000	0,00	0.00000E+000	6.07000E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
TOTAL			1.20438E-005							