

Annex N: Risk Reduction Evaluation

Layer of protection	Baseline	Twin Island Gen ship 1: 18000 TEU													Single Island Gen ship 2: 7500													Feeder Gen ship 3: 3500												
		PLL	PLC	PLS	Salvage	EPL	TPL	Δ PLL	Δ PLC	Δ PLS	Δ Salvage	Δ EPL	Δ TPL	PLL	PLC	PLS	Salvage	EPL	TPL	Δ PLL	Δ PLC	Δ PLS	Δ Salvage	Δ EPL	Δ TPL	PLL	PLC	PLS	Salvage	EPL	TPL	Δ PLL	Δ PLC	Δ PLS	Δ Salvage	Δ EPL	Δ TPL			
		5,45E-03	\$889.546	\$183.661	\$386.130	\$234.248	\$1.693.585							1,84E-03	\$138.744	\$32.499	\$64.573	\$34.837	\$270.653	1,14E-04	\$8.564	\$2.006	\$3.975	\$2.150	\$16.662	5,34E-04	\$26.164	\$5.956	\$12.204	\$4.291	\$48.614	Δ PLL	Δ PLC	Δ PLS	Δ Salvage	Δ EPL	Δ TPL			
Prevention	RCO P1	5%	5,11E-03	\$834.819	\$172.362	\$362.363	\$219.836	\$1.589.342	3,35E-04	\$54.727	\$11.299	\$23.767	\$14.411	\$104.244	1,73E-03	\$130.180	\$30.493	\$60.598	\$32.686	\$253.991	1,14E-04	\$8.564	\$2.006	\$3.975	\$2.150	\$16.662	5,01E-04	\$24.552	\$5.589	\$11.452	\$4.027	\$45.615	3,29E-05	\$1.611	\$367	\$752	\$264	\$3.000		
		95%	5,36E-03	\$875.555	\$180.773	\$380.084	\$230.563	\$1.667.068	8,57E-05	\$13.991	\$2.889	\$6.046	\$3.684	\$26.518	1,82E-03	\$136.568	\$31.989	\$63.563	\$34.290	\$266.418	2,89E-05	\$2.176	\$510	\$1.010	\$546	\$4.235	5,26E-04	\$25.753	\$5.862	\$12.012	\$4.224	\$47.852	8,37E-06	\$410	\$93	\$192	\$67	\$763		
		Mean	5,25E-03	\$857.426	\$177.030	\$372.188	\$225.789	\$1.632.433	1,97E-04	\$32.120	\$6.632	\$13.943	\$8.458	\$61.153	1,78E-03	\$133.734	\$31.325	\$62.242	\$33.579	\$260.880	6,66E-05	\$5.010	\$1.173	\$2.332	\$1.258	\$9.773	5,15E-04	\$25.219	\$5.740	\$11.764	\$4.136	\$46.859	1,93E-05	\$945	\$215	\$441	\$155	\$1.755		
	RCO P2	5%	5,36E-03	\$875.119	\$180.683	\$379.873	\$230.449	\$1.666.142	8,83E-05	\$14.427	\$2.979	\$6.257	\$3.799	\$27.443	1,81E-03	\$136.489	\$31.971	\$63.527	\$34.270	\$266.266	3,00E-05	\$2.255	\$528	\$1.047	\$566	\$4.387	5,25E-04	\$25.740	\$5.859	\$12.006	\$4.222	\$47.825	8,66E-06	\$424	\$97	\$198	\$70	\$790		
		95%	5,42E-03	\$885.911	\$182.911	\$384.541	\$233.290	\$1.686.613	2,23E-05	\$3.635	\$750	\$1.590	\$957	\$6.972	1,84E-03	\$138.173	\$32.365	\$64.307	\$34.693	\$269.537	7,60E-06	\$571	\$134	\$266	\$143	\$1.116	5,32E-04	\$26.055	\$5.931	\$12.154	\$4.273	\$48.415	2,21E-06	\$108	\$25	\$50	\$18	\$199		
		Mean	5,39E-03	\$881.088	\$181.915	\$382.459	\$232.020	\$1.677.482	5,18E-05	\$8.458	\$1.746	\$3.671	\$2.227	\$16.103	1,83E-03	\$137.425	\$32.190	\$63.959	\$34.505	\$268.079	1,75E-05	\$1.319	\$309	\$614	\$331	\$2.573	5,29E-04	\$25.915	\$5.899	\$12.088	\$4.250	\$48.152	5,08E-06	\$249	\$57	\$116	\$41	\$462		
Detection	RCO D1	5%	5,26E-03	\$870.590	\$179.064	\$377.251	\$228.692	\$1.655.394	1,82E-04	\$18.956	\$4.597	\$8.880	\$5.556	\$38.191	1,79E-03	\$136.164	\$31.761	\$63.308	\$34.086	\$265.406	5,48E-05	\$2.580	\$738	\$1.265	\$751	\$5.247	5,21E-04	\$25.778	\$5.845	\$12.016	\$4.208	\$47.848	1,27E-05	\$385	\$110	\$188	\$83	\$766		
		95%	5,39E-03	\$884.102	\$182.361	\$383.481	\$232.760	\$1.682.563	5,34E-05	\$5.444	\$1.301	\$2.649	\$1.488	\$11.022	1,83E-03	\$138.049	\$32.303	\$64.200	\$34.642	\$269.139	1,50E-05	\$695	\$196	\$373	\$194	\$1.514	5,30E-04	\$26.049	\$5.925	\$12.150	\$4.269	\$48.394	3,73E-06	\$114	\$31	\$54	\$22	\$221		
		Mean	5,34E-03	\$878.081	\$180.878	\$380.741	\$230.978	\$1.670.677	1,10E-04	\$11.465	\$2.784	\$5.389	\$3.269	\$22.908	1,81E-03	\$137.197	\$32.058	\$63.801	\$34.393	\$267.449	3,30E-05	\$1.547	\$441	\$773	\$443	\$3.204	5,26E-04	\$25.928	\$5.889	\$12.090	\$4.242	\$48.150	7,73E-06	\$235	\$66	\$114	\$49	\$464		
	RCO D2	5%	4,81E-03	\$811.699	\$164.551	\$342.808	\$213.527	\$1.529.350	6,38E-04	\$77.847	\$19.110	\$43.323	\$20.721	\$164.236	1,62E-03	\$125.192	\$28.571	\$56.591	\$31.583	\$242.245	2,28E-04	\$13.552	\$3.928	\$7.982	\$3.254	\$28.408	4,89E-04	\$23.944	\$5.349	\$10.888	\$3.938	\$44.066	4,51E-05	\$2.220	\$606	\$1.316	\$353	\$4.548		
		95%	5,28E-03	\$863.555	\$177.148	\$370.796	\$228.006	\$1.636.890	1,71E-04	\$25.991	\$6.514	\$15.334	\$6.242	\$56.695	1,80E-03	\$134.409	\$31.252	\$61.946	\$33.851	\$261.381	4,25E-05	\$4.335	\$1.247	\$2.628	\$986	\$9.272	5,17E-04	\$25.265	\$5.728	\$11.698	\$4.181	\$46.867	1,69E-05	\$898	\$227	\$506	\$110	\$1.747		
		Mean	5,05E-03	\$838.607	\$171.176	\$358.617	\$221.551	\$1.589.951	3,95E-04	\$50.940	\$12.485	\$27.513	\$12.697	\$103.635	1,71E-03	\$130.256	\$30.053	\$59.454	\$32.803	\$252.566	1,30E-04	\$8.488	\$2.446	\$5.120	\$2.033	\$18.087	5,04E-04	\$24.662	\$5.554	\$11.325	\$4.073	\$45.614	3,03E-05	\$1.502	\$402	\$879	\$218	\$3.001		
	RCO D3	5%	5,42E-03	\$880.542	\$180.487	\$374.550	\$233.873	\$1.669.625	2,64E-05	\$9.004	\$3.174	\$11.580	\$375	\$23.961	1,83E-03	\$136.577	\$31.654	\$61.727	\$34.742	\$264.684	1,40E-05	\$2.167	\$845	\$2.847	\$95	\$5.969	5,28E-04	\$25.449	\$5.724	\$11.539	\$4.260	\$46.968	6,30E-06	\$715	\$232	\$665	\$31	\$1.646		
		95%	5,44E-03	\$887.127	\$182.822	\$382.990	\$234.148	\$1.686.998	6,99E-06	\$2.419	\$840	\$3.140	\$100	\$6.587	1,84E-03	\$138.156	\$32.272	\$63.803	\$34.811	\$269.030	3,76E-06	\$588	\$227	\$770	\$25	\$1.623	5,34E-04	\$26.109	\$5.938	\$12.154	\$4.289	\$48.489	4,66E-07	\$54	\$17	\$50	\$2	\$126		
		Mean	5,43E-03	\$884.203	\$181.784	\$379.203	\$234.024	\$1.679.214	1,56E-05	\$5.343	\$1.877	\$6.927	\$223	\$14.371	1,84E-03	\$137.448	\$31.996	\$62.885	\$34.780	\$267.108	8,34E-06	\$1.296	\$503	\$1.689	\$56	\$3.544	5,31E-04	\$25.840	\$5.851	\$11.906	\$4.277	\$47.874	2,84E-06	\$323	\$104	\$299	\$14	\$740		
	RCO D4	5%	5,44E-03	\$886.900	\$182.723	\$382.613	\$234.134	\$1.686.300	7,80E-06	\$2.646	\$938	\$3.517	\$114	\$7.285	1,84E-03	\$138.096	\$32.245	\$63.712	\$34.808	\$268.846	4,20E-06	\$648	\$254	\$862	\$29	\$1.807	5,33E-04	\$26.017	\$5.908	\$12.068	\$4.285	\$48.275	1,28E-06	\$146	\$47	\$136	\$6	\$339		
		95%	5,44E-03	\$888.804	\$183.404	\$385.177	\$234.217	\$1.691.593	2,14E-06	\$742	\$257	\$953	\$30	\$1.993	1,84E-03	\$138.569	\$32.432	\$64.345	\$34.829	\$270.172	1,11E-06	\$175	\$67	\$228	\$8	\$481	5,34E-04	\$26.151	\$5.952	\$12.193	\$4.291	\$48.588	9,95E-08	\$12	\$4	\$11	\$0	\$27		
		Mean	5,44E-03	\$887.943	\$183.098	\$384.052	\$234.181	\$1.689.274	4,68E-06	\$1.603	\$563	\$2.078	\$67	\$4.311	1,84E-03	\$138.355	\$32.348	\$64.067	\$34.820	\$269.590	2,50E-06	\$389	\$151	\$507	\$17	\$1.063	5,34E-04	\$26.097	\$5.934	\$12.143	\$4.288	\$48.463	5,77E-07	\$67	\$21	\$61	\$3	\$151		
	RCO D5	5%	5,31E-03	\$872.752	\$179.568	\$377.421	\$230.010	\$1.659.941	1,37E-04	\$16.794	\$4.094	\$8.710	\$4.237	\$33.645	1,81E-03	\$136.980	\$32.001	\$63.557	\$34.407	\$266.959	3,12E-05	\$1.764	\$498	\$1.017	\$429	\$3.694	5,33E-04	\$26.074	\$5.934	\$12.148	\$4.281	\$48.433	1,58E-06	\$90	\$21	\$57	\$10	\$181		
		95%	5,41E-03	\$884.914	\$182.511	\$383.523	\$233.147	\$1.683.864	3,44E-05	\$4.632	\$1.151	\$2.607	\$1.101	\$9.721	1,84E-03	\$138.246	\$32.356	\$64.271	\$34.724	\$269.583	7,62E-06	\$498	\$143	\$303	\$112	\$1.070	5,34E-04	\$26.130	\$5.948	\$12.183	\$4.288	\$48.549	5,32E-07	\$33	\$8	\$21	\$3	\$66		
		Mean	5,37E-03	\$879.547	\$181.220	\$380.784	\$231.760	\$1.673.311	7,93E-05	\$9.999	\$2.442	\$5.346	\$2.487	\$20.274	1,83E-03	\$137.687	\$32.199	\$63.953	\$34.583	\$268.422	1,81E-05	\$1.057	\$300	\$620	\$254	\$2.231	5,33E-04	\$26.104	\$5.942	\$12.168	\$4.285	\$48.499	9,96E-07	\$59	\$14	\$36	\$6	\$115		
Firefighting	RCO F1	5%	5,09E-03	\$857.121	\$176.759	\$370.173	\$226.219	\$1.630.809	3,54E-04	\$32.425	\$6.902	\$15.957	\$8.028	\$62.777	1,75E-03	\$134.274	\$31.411	\$62.341	\$33.667	\$261.691	9,84E-05	\$4.470	\$1.088	\$2.233	\$1.170	\$8.962	5,13E-04	\$25.439	\$5.792	\$11.879	\$4.158	\$47.259	2,12E-05	\$725	\$163	\$325	\$133	\$1.355		
		95%	5,33E-03	\$877.980	\$181.271	\$380.967	\$231.757	\$1.671.473	1,13E-04	\$11.566	\$2.390	\$5.163	\$2.491	\$22.112	1,81E-03	\$137.249	\$32.140	\$63.830	\$34.482	\$267.704	3,13E-05	\$1.495	\$359	\$743	\$355	\$2.949	5,27E-04	\$25.922	\$5.903	\$12.098	\$4.248	\$48.161	6,98E-06	\$242	\$52	\$107	\$43	\$453		
		Mean	5,23E-03	\$868.511	\$179.211	\$376.103	\$229.170	\$1.652.995	2,20E-04	\$21.035	\$4.450	\$10.027	\$5.078	\$40.590	1,78E-03	\$135.882	\$31.802	\$63.185	\$34.117	\$264.985	6,22E-05	\$2.862	\$697	\$1.389	\$720	\$5.668	5,21E-04	\$25.697	\$5.851	\$11.999	\$4.208									