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Table S1. Maximum amount of radiation under various weather conditions for the 200 mm leakage scenario

Different areas	Weather conditions	
	Summer	Winter
Distance (m)	44-57	46-58
Maximum radiation (Kw/m^2)	310	332

Table S2. Maximum blast wave under various weather conditions for the 200 mm leakage scenario

Different areas	Weather conditions	
	Summer	Winter
Distance (m)	374	275
Maximum radiation (Kw/m^2)	18	19.7

Table S3. Maximum radiation in various weather conditions for the 300 mm leakage scenario

Different areas	Weather conditions	
	Summer	Winter
Distance (m)	59-79	61-75
Maximum radiation (Kw/m^2)	338	350

Table S4. Maximum blast wave for 300 mm leak scenario in various weather conditions

Different areas	Weather conditions	
	Summer	Winter
Distance (m)	520	473
Maximum radiation (Kw/m^2)	19.7	19.7

Table S5. Maximum amount of radiation in different weather conditions for the 400 mm leakage scenario

Different areas	Weather conditions	
	Summer	Winter

Distance (m)	62-83	65-80
Maximum radiation (Kw/m^2)	343	350

Table S6. Maximum blast wave for 400 mm leak scenario under various weather conditions

Different areas	**Weather conditions**	
	Summer	**Winter**
Distance (m)	566	573
Maximum radiation (Kw/m^2)	19.7	19.7

Table S7. Comparison of the maximum pressure wave in different weather conditions for all scenarios

Scenarios	**Weather conditions**			
	Summer		**Winter**	
	Distance (m)	Maximum pressure wave (bar)	Distance (m)	Maximum pressure wave (bar)
200 mm gap	374	18	275	19.7
300 mm gap	520	19.7	473	19.7
400 mm gap	566	19.7	537	19.7

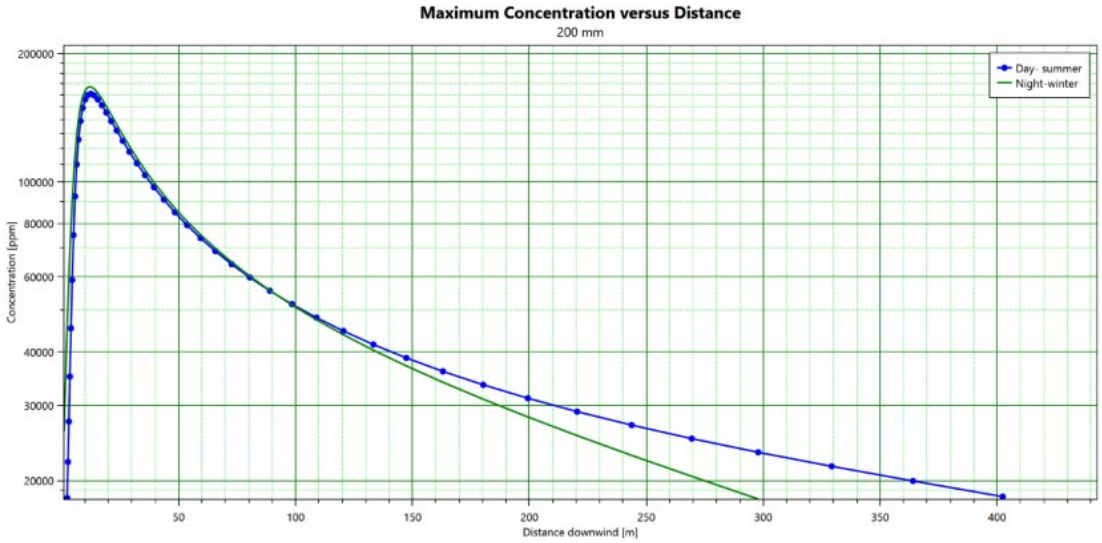

Figure S1. The Maximum Concentration of Substance Disseminated at Various Distances in the 200 mm Leakage Scenario

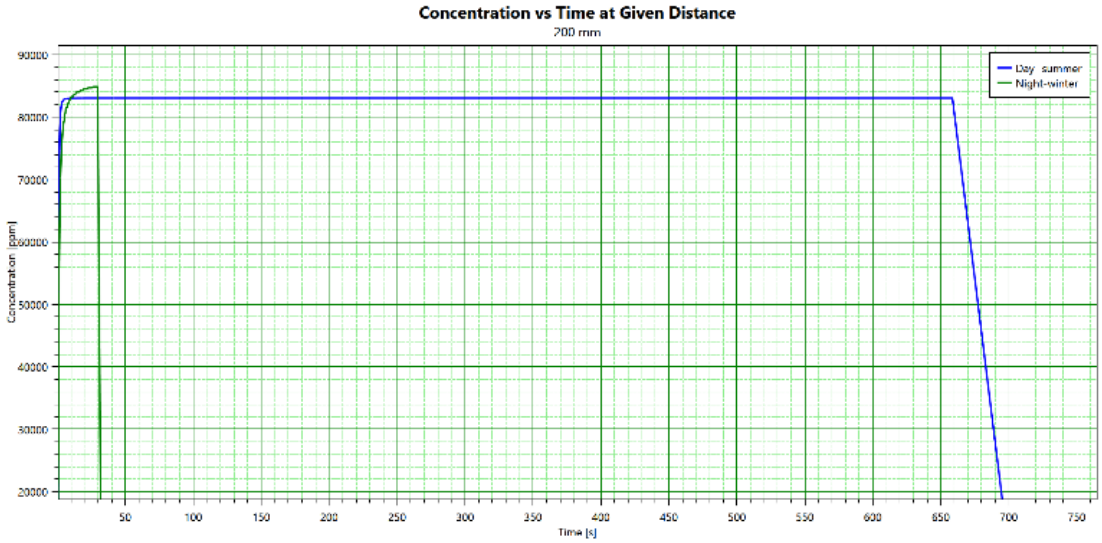

Figure S2. Time-Dependent Changes in the Concentration of the Released Material in the 200 mm Leakage Scenario

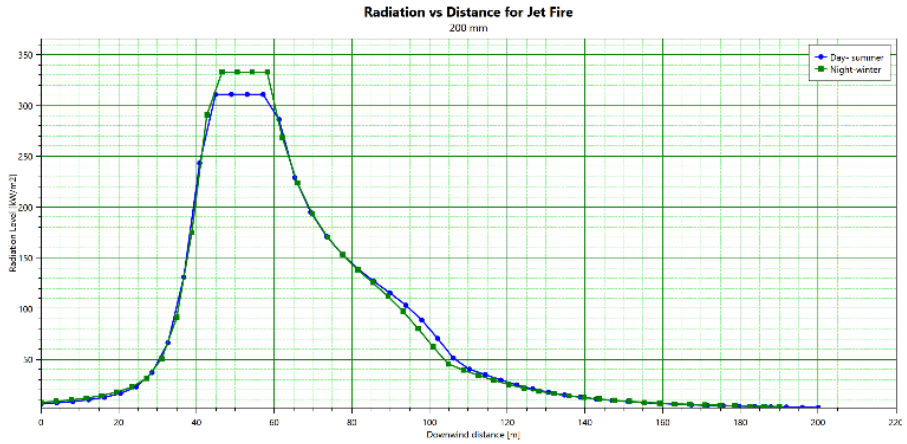

Figure S3. The Radiation Level of the Eruptive Fire at Various Distances in the 200 mm Leakage Scenario

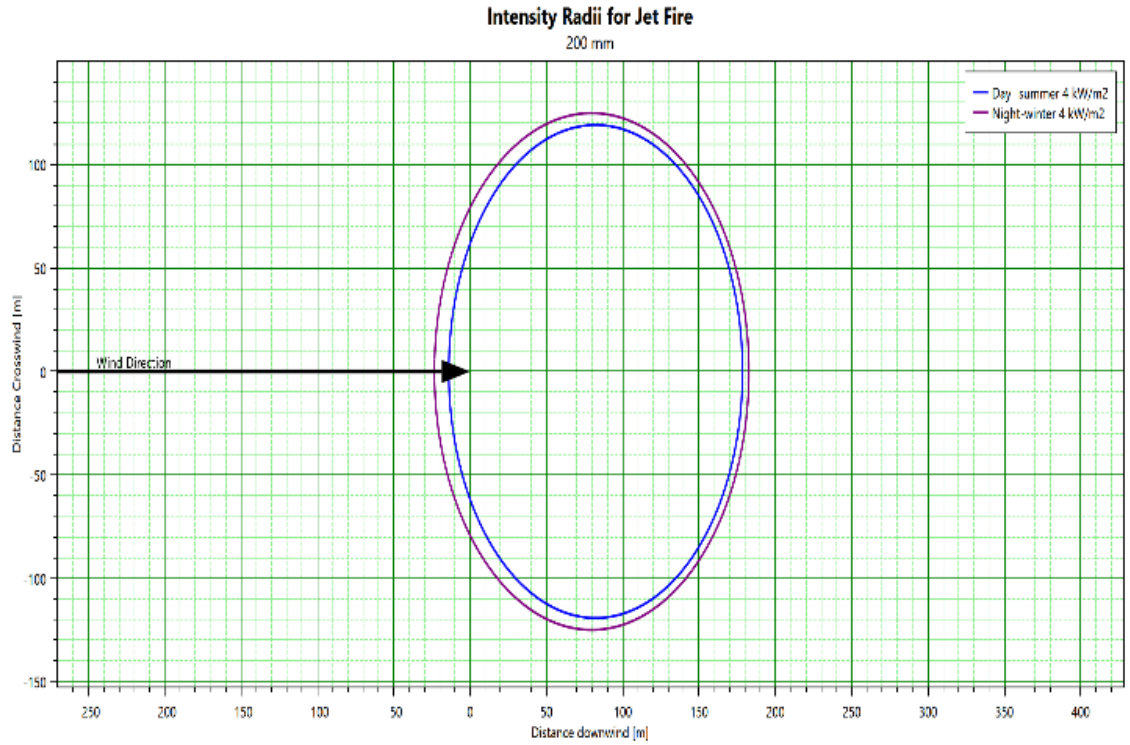

Figure S4. The Intensity of the Eruptive Fire Radiation Radius in the 200 mm Leakage Scenario

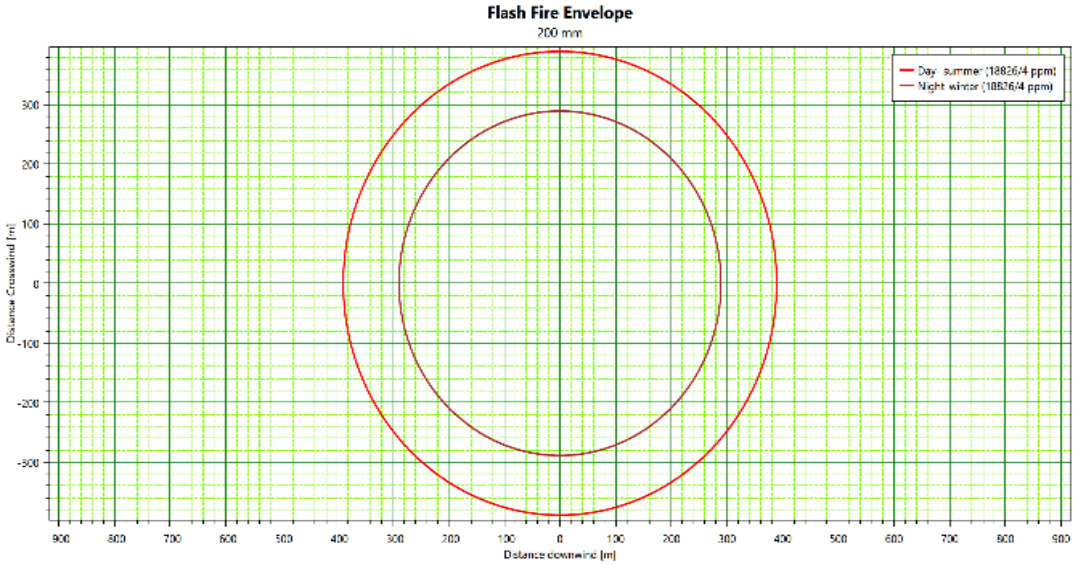

Figure S5. Radius of a Sudden Fire in a 200 mm Leakage Scenario

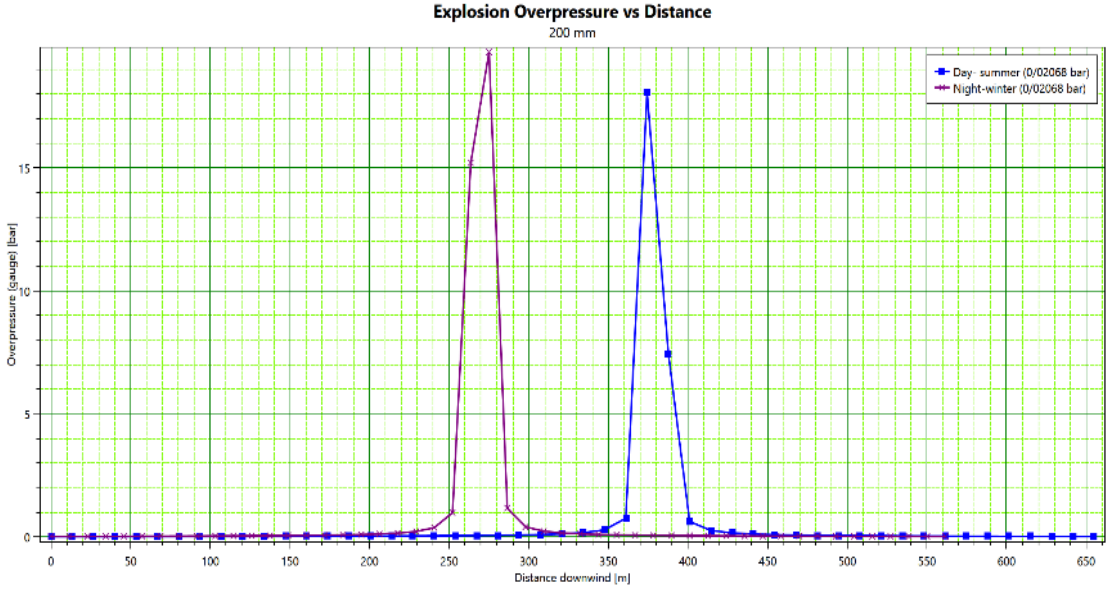

Figure S6. The Maximum Distance of the Blast Wave in the 200 mm Leakage Scenario

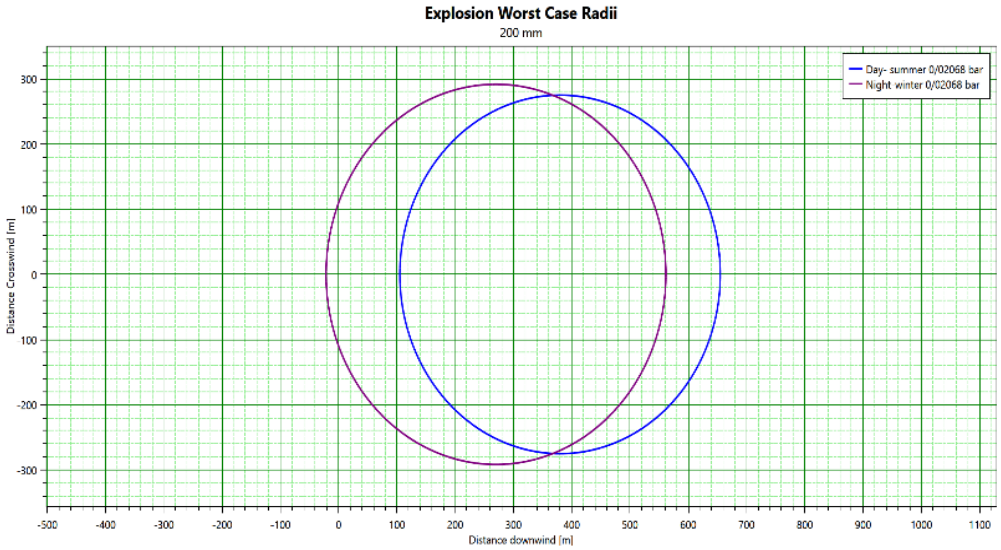

Figure S7. The Radius of Pressure Wave Impact in a 200 mm Leakage Scenario

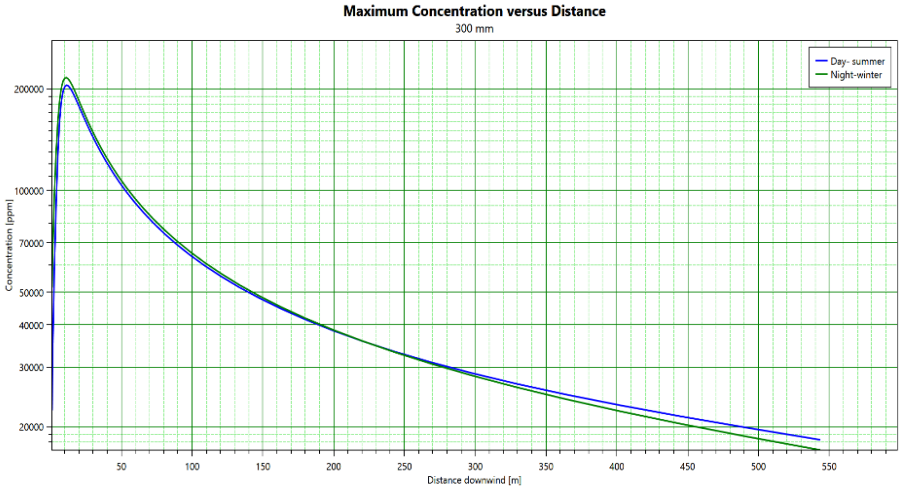

Figure S8. The Maximum Concentration of the Material Released at Various Distances in the 300 mm Leakage Scenario

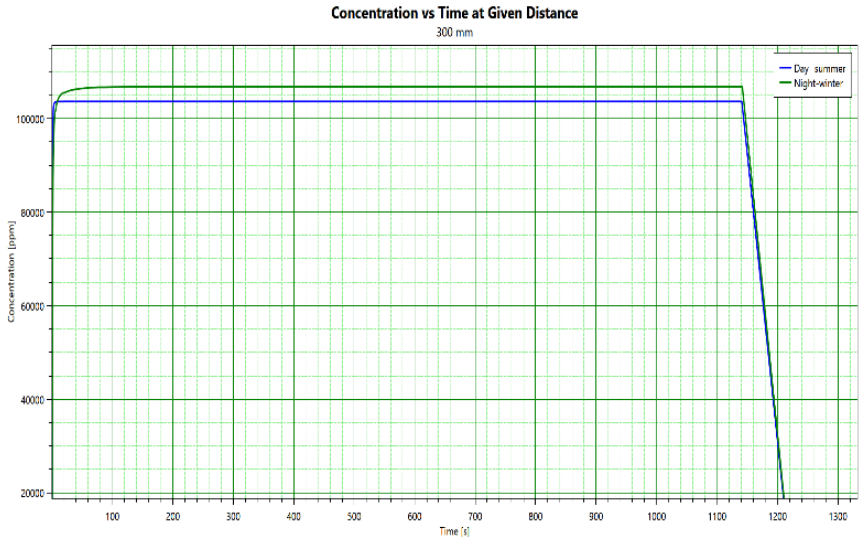

Figure S9. Time-Dependent Changes in The Concentration of the Released Substance in the 300 mm Leakage Scenario

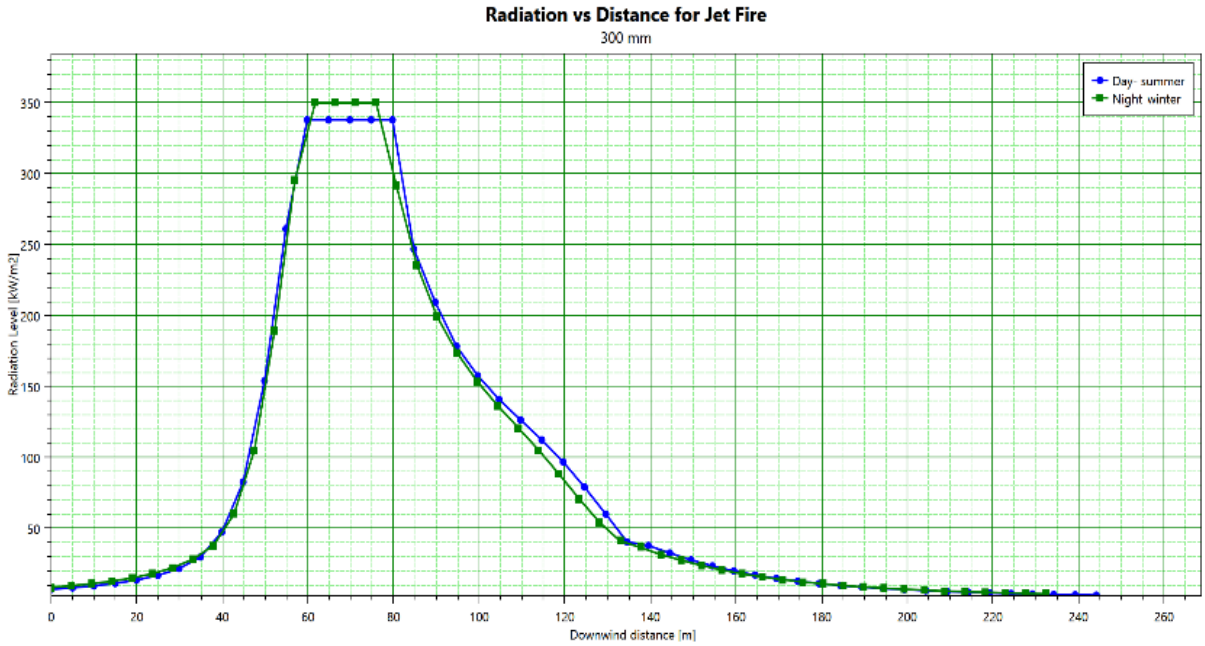

Figure S10. The Amount of Radiation Emitted by the Eruptive Fire at Various Distances in the 300 mm Leakage Scenario

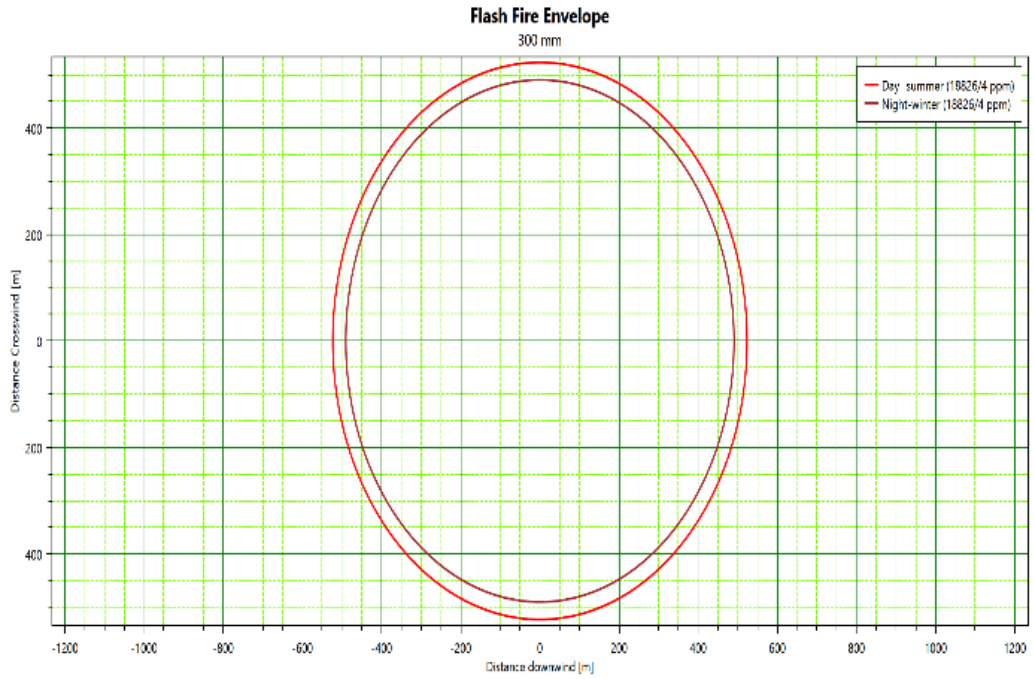

Figure S11. The Radius of the Effect of Sudden Fire in the 300 mm Leakage Scenario

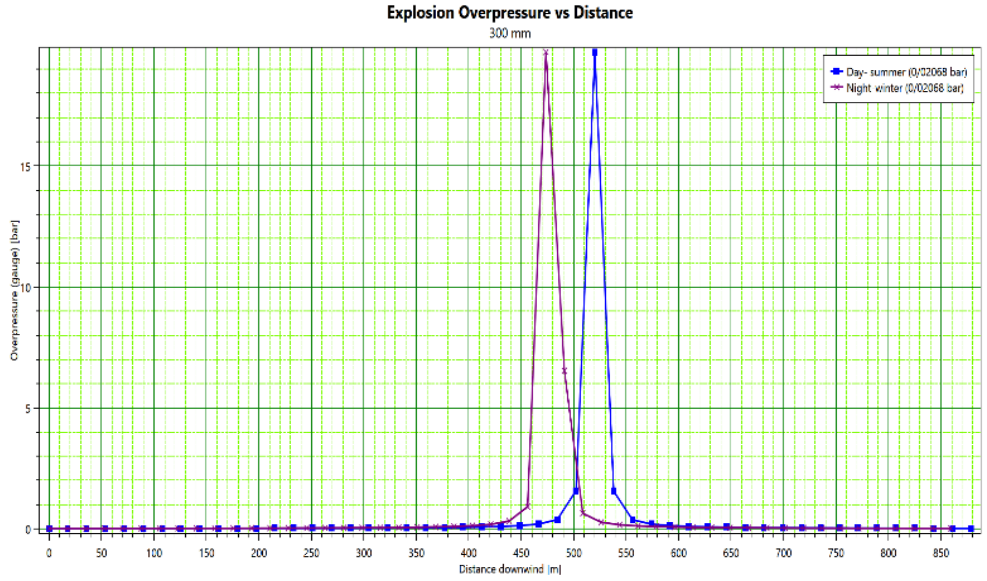

Figure S12. The Maximum Blast Wave Per Distance in the 300 mm Leakage Scenario

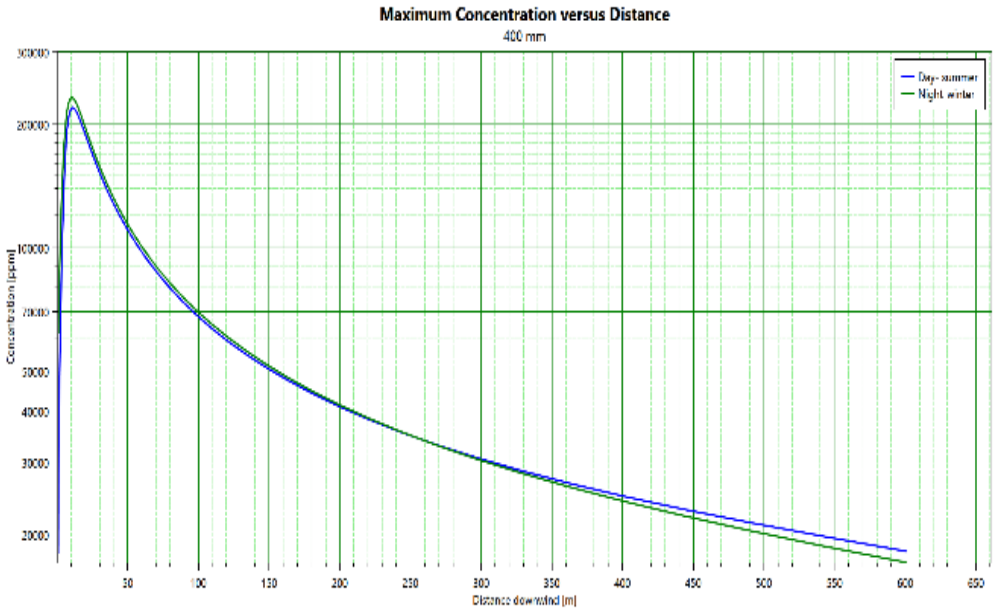

Figure S13. The Maximum Concentration of the Substance Released at Various Distances in the 400 mm Leakage Scenario

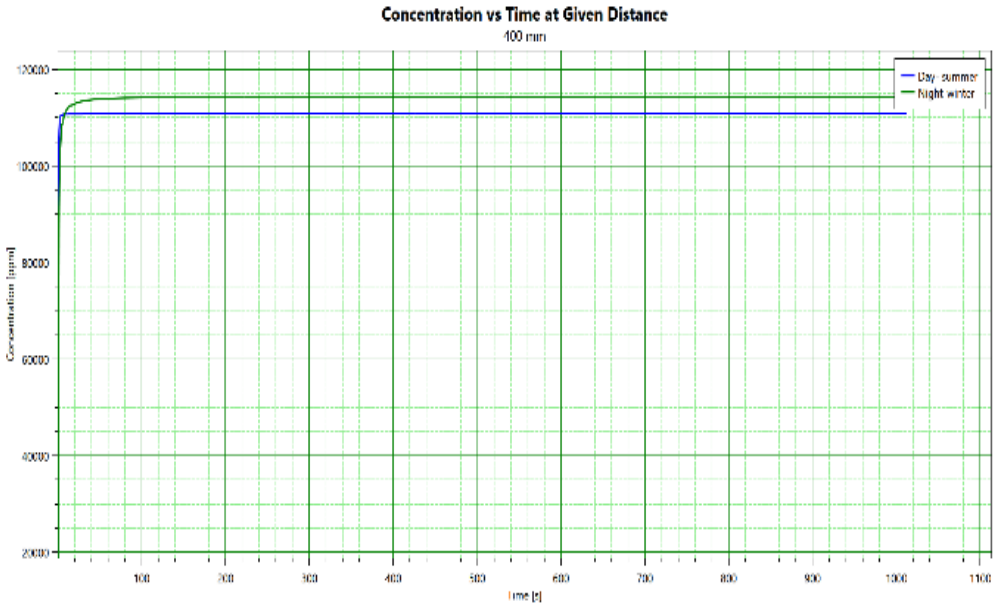

Figure S14. Time-Dependent Changes in the Concentration of the Released Substance in the 400

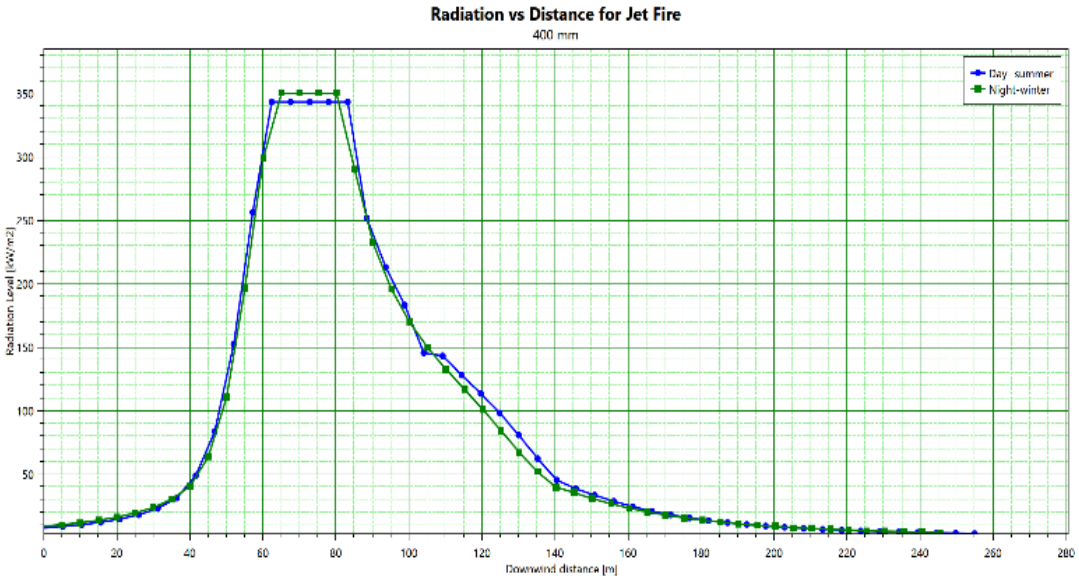

Figure S15. The Radiation Level of the Eruptive Fire at Different Distances in the 400 mm Leakage Scenario

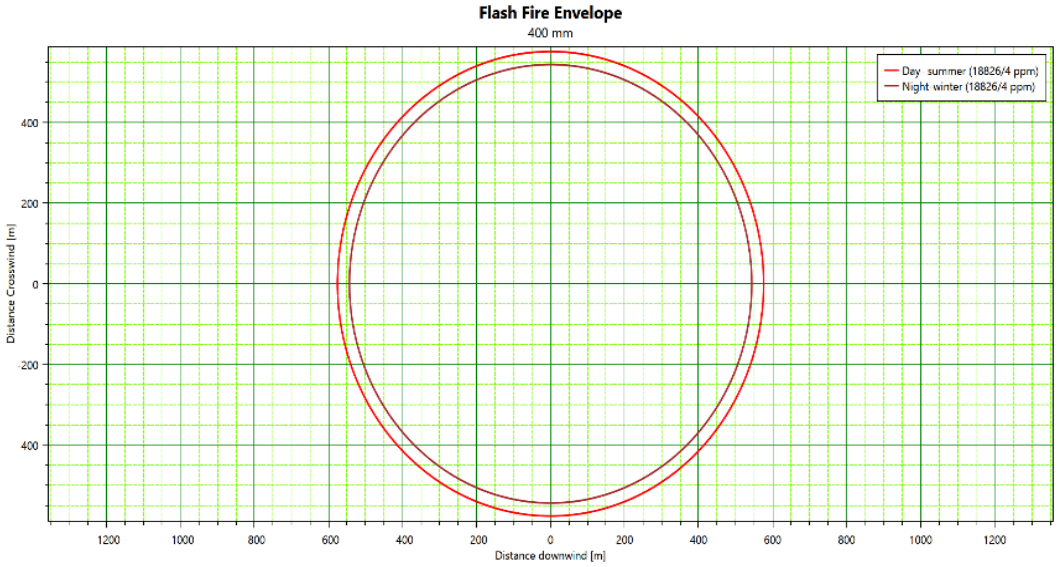

Figure S16. The Radius of the Impact of Sudden Fire in the 400 mm Leakage Scenario

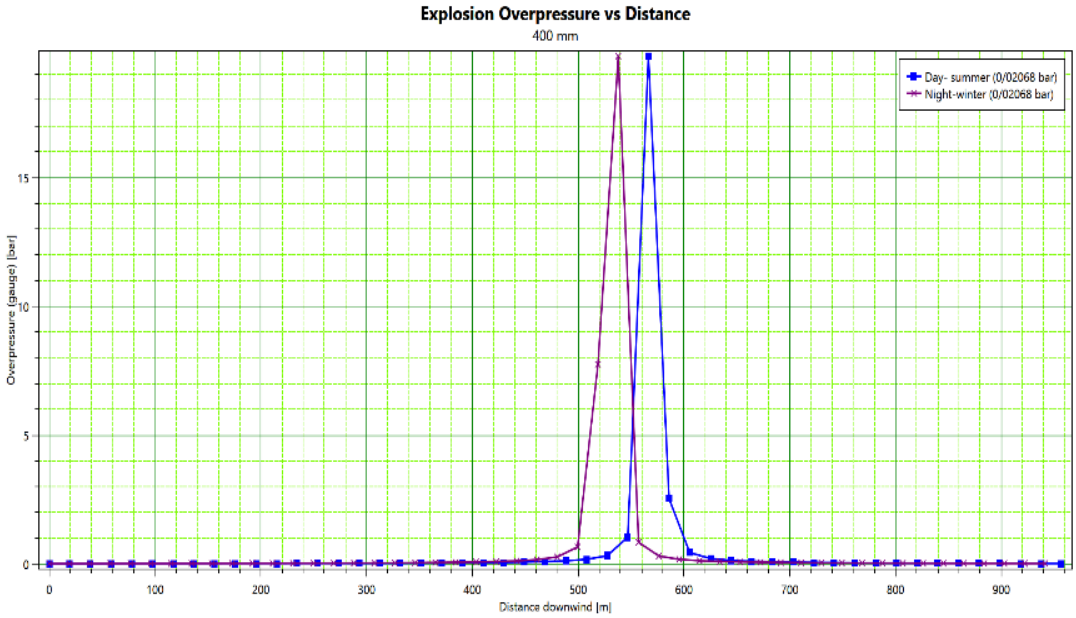

Figure S17. The Maximum Blast Wave in Terms of Distance in the 400 mm Leakage Scenario

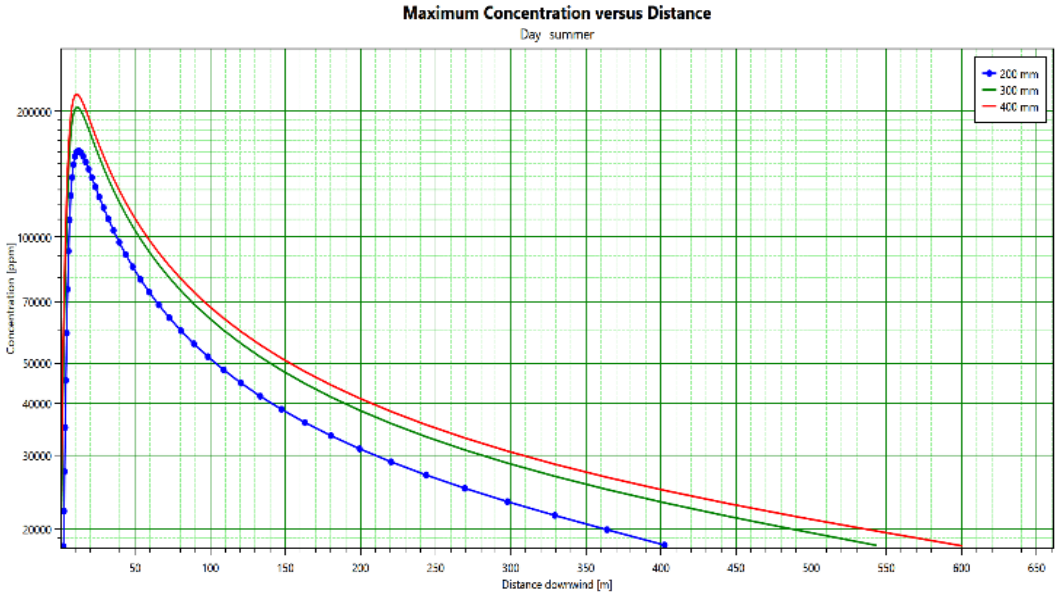

Figure S18. Comparison of the Maximum Concentration of the Substance Released at Different Distances in Different Scenarios

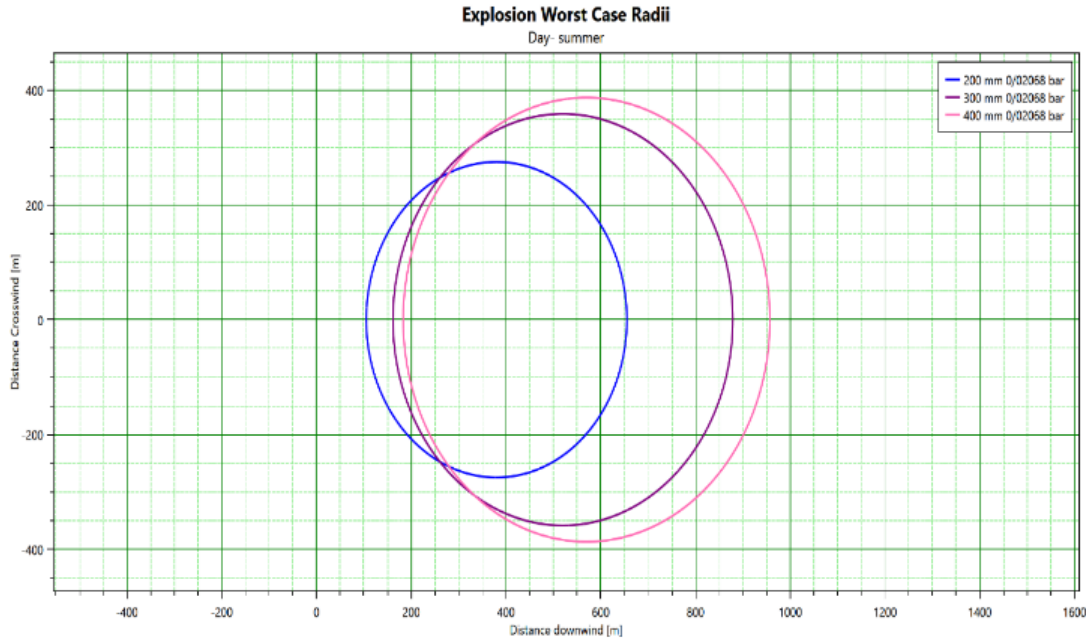

Figure S19. A Comparison of the Maximum Blast Wave by Distance in Various Scenarios

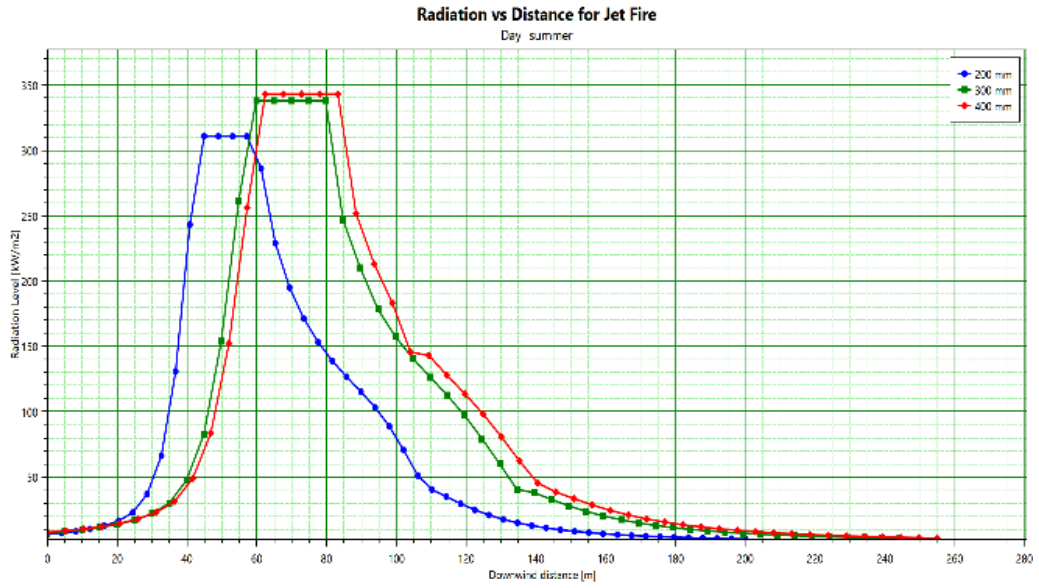

Figure S20. A Comparison of the Highest Radiation Levels Under Various Scenarios