

	<b>PROGETTISTA</b>  <i>Tecnologia Ricerca Rischi</i>	<b>COMMESSA</b>	<b>UNITA'</b> -
	<b>LOCALITA'</b> REGIONE LIGURIA	<b>DIS-MEC-E-15021</b>	
	<b>PROGETTO / IMPIANTO</b> FSRU Alto Tirreno e Collegamento alla Rete Nazionale Gasdotti		<b>Rev.</b> 0

Rif. TRR: 72438

**EMERGENZA GAS  
INCREMENTO DI CAPACITÀ DI RIGASSIFICAZIONE (DL 17.05.2022, n. 50)**

**FSRU Alto Tirreno e Collegamento alla Rete Nazionale Gasdotti**

**Rapporto Preliminare di Sicurezza  
per la fase di Nulla Osta di Fattibilità (NOF)  
ai sensi del D.Lgs. 105/15**

**Allegato 1  
Report TNO**

0	Emissione per Enti	C. Nicoli	G.Romano	G. Lanza	Marzo 2024
<b>Rev.</b>	<b>Descrizione</b>	<b>Elaborato</b>	<b>Verificato</b>	<b>Approvato</b>	<b>Data</b>

Project : RPT

Session 1

----- START OF SESSION 1 (mYBTNTBlast) -----

INPUT

Model..... : Explosion; TNT equivalency model  
(184)  
Version..... : 5.02  
Reference..... : Yellow Book 3rd edition (1997)  
Chapter 5, figure 5.6, (TNT blast  
correlation model)  
Case description..... : 1R(a)  
Type of TNT model?..... : Based upon mass  
TNT mass..... : 0.5 kg  
Equivalency factor..... : 100 %  
Distance from release (Xd)..... : 2 m  
Threshold overpressure..... : 1000 mBar  
X-coordinate of release..... : 0 m  
Y-coordinate of release..... : 0 m

RESULTS

Peak overpressure at Xd..... : 1749.9 mBar  
Equivalent TNT mass..... : 0.5 kg  
Damage to windows (houses before 1975) at Xd..... : 100 %  
Damage to windows (houses after 1975) at Xd..... : 100 %  
Confined mass in explosive range..... : 0.5 kg  
Distance from center mass of confined explosive cloud to poi : 2 m  
Distance from center mass of cloud at which threshold overpr : 2.6113 m

----- END OF SESSION 1 -----

Administrative & version data:

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Main program (production date) : Effects (15 Jan 2008 09:23:00)  
Run mode (complexity level) : Expert  
Model name : Explosion; TNT equivalency model (184)  
Date of this calculation : 20 Dec 2023 18:20:29  
License owner : chiara  
Calculation performed by : chiara  
Software library version : 7.5.2.0836  
Model driver version(s) : 5.02  
Model driver last modification : 17 Sep 2006  
Model executable version(s) : N/A  
Session nr. : 1  
References : Yellow Book 3rd edition (1997) Chapter 5, figure 5.6, (TNT blast  
correlation model)  
Project file name : "RPT.alf"  
Chemical database used : "Purple Book (1999).rdb" (04 dic 2007 14:00:44)  
Environment database used : "Purple Book (1999).Env" (30 lug 2007 11:00:00)  
System database used : "Purple Book (1999).SPF" (30 lug 2007 11:00:00)  
Dispersion database used : "Purple Book (1999).dpf" (30 lug 2007 11:00:00)  
Map background file used : "RPT.gbf" (01 gen 0 00:00:00)  
Project file directory : "Z:\70000 Commesse\72438 SNAM nof FSRU Vado Ligure\7. Integrazioni istruttoria RPdS\MdL\01  
RPT"  
Chemical database directory : "C:\Program Files (x86)\TNO\Effects 75\Shared data\Databases"  
Environment database directory : "C:\Program Files (x86)\TNO\Effects 75\Shared data\Databases"  
System database directory : "C:\Program Files (x86)\TNO\Effects 75\Shared data\Databases"  
Dispersion database directory : "C:\Program Files (x86)\TNO\Effects 75\Shared data\Databases"  
Map background directory : "Z:\70000 Commesse\72438 SNAM nof FSRU Vado Ligure\2. Istruttoria RPdS\Calcoli (uso  
interno)"

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End of administrative & version data:  
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