

Grant 2002-DT-CX-K001
ID No. 065595
MJO 118

Noise Flash Diversionary Device (NFDD)

DT OB 100



DESCRIPTION:			
Tactical Device	Vents axially	Pull Ring Safety	
Single Use	Plastic body ruptures	Avg. Assembly Wt	
Frangible plastic body		Pre Test:	9.22 oz
		Post Test:	7.68 oz

PACKAGING:						
" H	" W	" L	lbs	12 rounds	Cardboard Shipping Box	



DT OB 100

TEST	PART S/N	GROSS WEIGHT		IGNITION DELAY sec.	BURN sec.	3 FEET				5 FEET					10 FEET					
		PRE-TEST oz	POST TEST* oz			PEAK		RADIANT FLUX J	PEAK		RADIANT FLUX J	PEAK		RADIANT FLUX J						
						ACOUSTIC NOISE psi	db		LUX	ft-candle		ACOUSTIC NOISE psi	db		LUX	ft-candle	ACOUSTIC NOISE psi	db	LUX	ft-candle
1	217846	9.00	8.35	1.57	0.0232	5.83	186	22720746	2110757	3.9	2.83	180	7788864	723585	1.1	1.04	171	1597674	148424	0.3
2	217845	9.32	8.50	1.55	0.0205	5.72	186	27925070	2594239	4.6	3.22	181	10318423	958581	1.5	1.02	171	1707773	158652	0.3
3	217851	9.27	8.28	1.59	0.0219	5.42	185	22570896	2096836	3.8	2.77	180	7107708	660306	1.0	1.00	171	1316141	122269	0.2
4	217854	9.21	8.39	1.46	0.0183	5.14	185	27703641	2573668	4.3	2.86	180	10655210	989869	1.4	1.01	171	1776551	165042	0.3
5	217856	9.21	8.39	1.49	0.0194	5.22	185	26365712	2449375	4.1	2.50	179	9665338	897910	1.4	1.06	171	1994292	185270	0.3
6	217850	9.27	8.45	1.43	0.0238	5.47	186	27276356	2533974	4.9	2.85	180	9882190	918055	1.8	1.16	172	1557650	144706	0.3
7	217847	9.27	8.45	1.46	0.0184	4.89	185	28985496	2692753	4.4	2.62	179	13832731	1285061	1.9	0.95	170	2010547	186780	0.3
8	217853	9.32	8.45	1.48	0.0198	4.75	184	29158773	2708850	4.5	2.65	179	13804659	1282453	1.8	0.96	170	2119349	196888	0.3
9	217849	9.27	8.39	1.53	0.0210	5.23	185	18608062	1728689	3.0	2.81	180	6684180	620960	1.0	1.01	171	1002166	93101	0.1
10	217852	9.27	8.23	1.44	0.0188	5.43	185	28188230	2618687	4.3	3.30	181	10676861	991880	1.5	0.95	170	1711530	159001	0.3
11	217854	9.10	8.05	1.61	0.0166	4.97	185	22583941	2098048	3.0	2.81	180	8388401	779282	1.0	0.89	170	1427538	132618	0.2
12	217855	9.21	8.50	1.53	0.0198	6.33	187	28054088	2606225	4.1	4.09	183	11082495	1029564	1.6	1.00	171	1726556	160397	0.3
13	217872	8.83	8.12	1.46	0.0208	4.90	185	28560806	2653299	4.3	2.84	180	10021181	930968	1.4	0.94	170	1802847	167484	0.2
14	217869	9.21	8.35	1.47	0.0186	9.56	190	27664574	2570039	3.8	2.44	179	13460291	1250461	1.4	1.00	171	1994292	185270	0.2
15	217877	9.27	8.28	1.43	0.0245	5.90	186	27958947	2597386	5.5	2.67	179	9605371	892339	1.7	0.96	170	1647738	153075	0.3
16	217880	9.21	8.28	1.43	0.0255	6.70	187	23546630	2187482	4.5	2.75	180	7094936	659120	1.2	1.06	171	1303642	121108	0.2
17	217870	9.21	8.23	1.44	0.0231	5.18	185	27401414	2545591	4.9	3.05	180	9090047	844465	1.5	1.10	172	1638927	152256	0.3
18	217876	9.21	8.17	1.43	0.0170	5.21	185	22512295	2091392	3.0	2.90	180	8177969	759733	1.1	0.98	171	1467562	136337	0.2
19	217873	9.21	8.28	1.64	0.0277	5.32	185	24425992	2269175	5.2	3.21	181	8638447	802512	1.4	1.13	172	1427538	132618	0.3
20	217874	9.27	8.39	1.54	0.0216	4.71	184	24952312	2318070	4.1	3.18	181	11310822	1050775	1.5	1.02	171	1621442	150632	0.2

Min	8.83	8.05	1.43	0.0166	4.71	184	18608062	1728689	3.0	2.44	179	6684180	620960	1.0	0.89	170	1002166	93101	0.1
Max	9.32	8.50	1.64	0.0277	9.56	190	29158773	2708850	5.5	4.09	183	13832731	1285061	1.9	1.16	172	2119349	196888	0.3
Range	0.49	0.45	0.21	0.0111	4.86	6	10550711	980161	2.5	1.65	4	7148551	664100	0.9	0.27	2	1117183	103786	0.2
Std. Dev	0.1	0.1	0.1	0.0	1.1	1.4	2916183	270913	0.7	0.4	1.0	2130221	197898	0.3	0.1	0.6	274744	25524	0.0
Average	9.21	8.33	1.50	0.0210	5.59	186	25858199	2402227	4.2	2.92	180	9864306	916394	1.4	1.01	171	1642588	152596	0.3

FRAGMENTATION:

TEST	PART S/N	PRE-TEST oz	POST TEST oz	IMPACTS	
				hits	perforations
1	217863	9.30	8.25	11	2
2	217864	9.30	8.25	13	6
3	217867	9.30	8.30	10	5

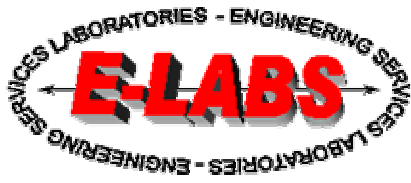
Std. Dev	0.0	0.0	1.5	2.1
Average	9.30	8.27	11.33	4.33



Functioned devices showing typical residual components



Fragmentation Test

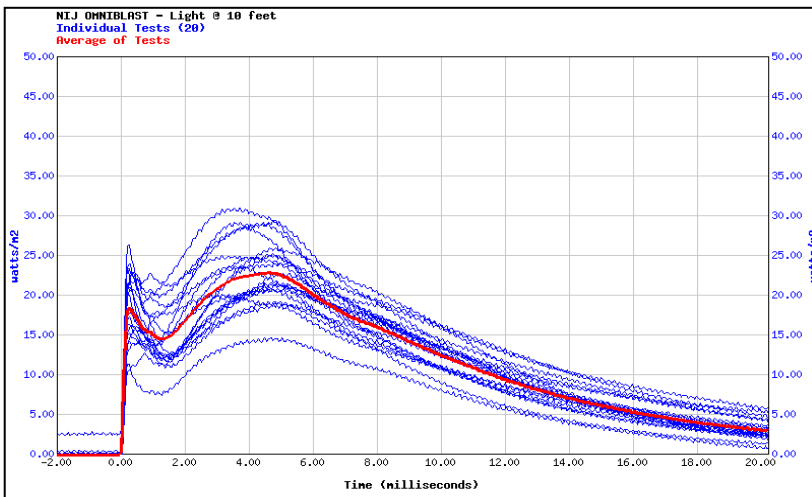
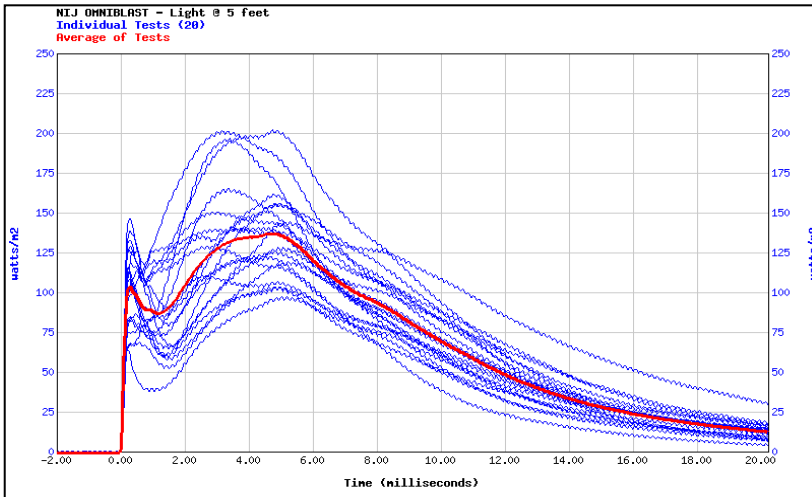
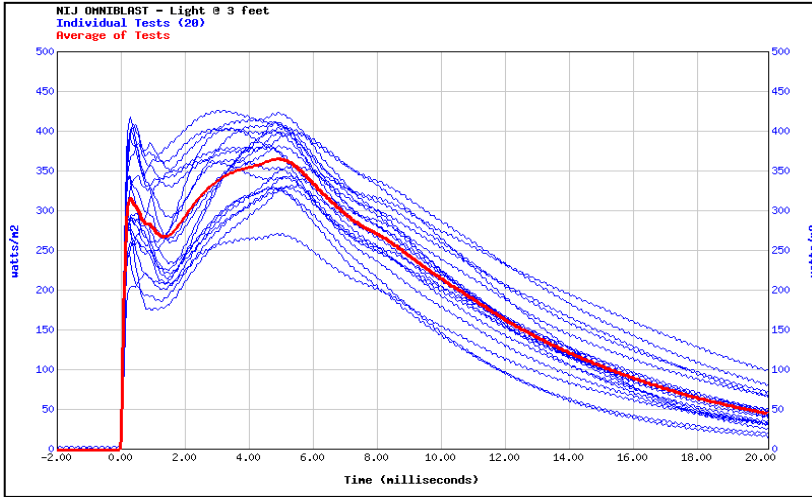


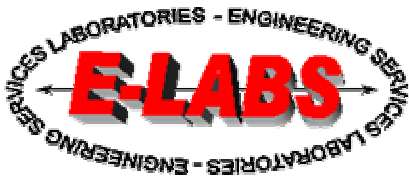
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ILLUMINANCE
MEASUREMENTS
(W/m²)

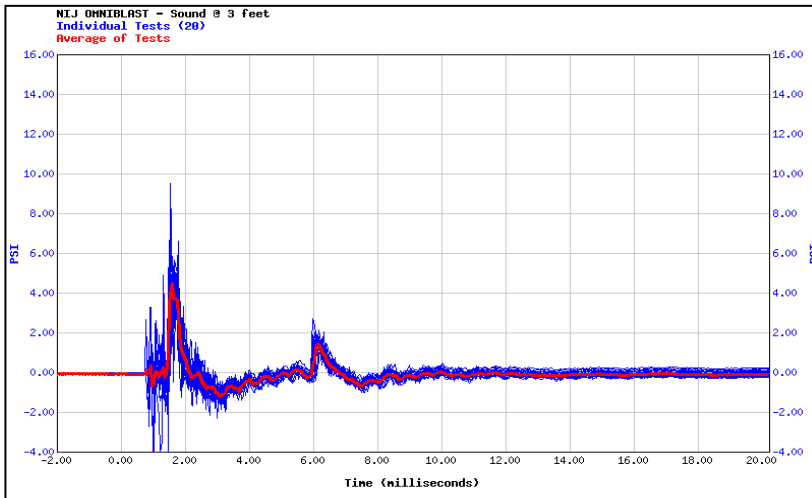




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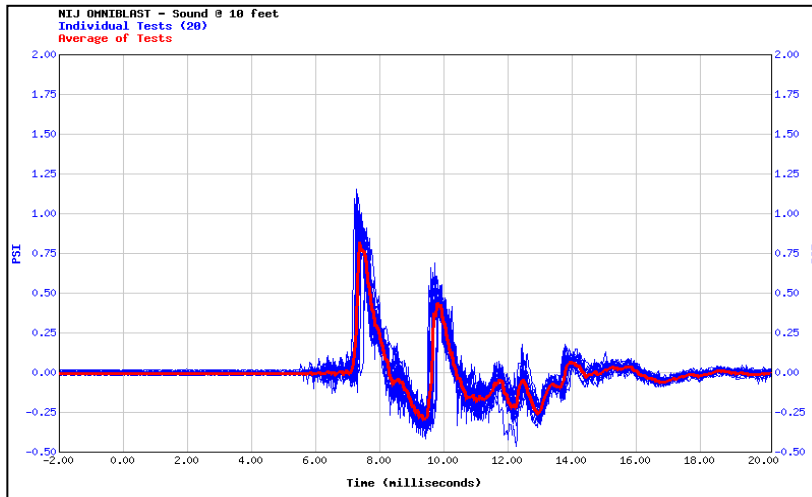
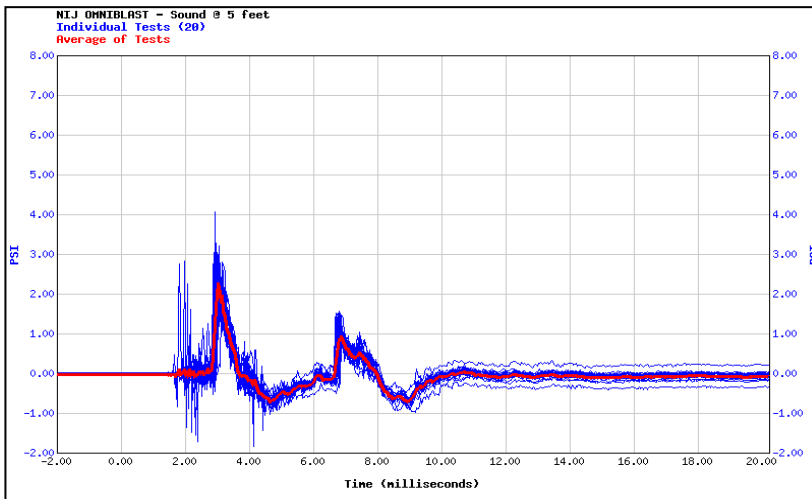
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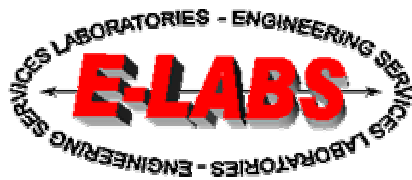


**PRESSURE MEASUREMENTS
(psi)**

*Initial Positive Off-Sets are Composite
Blast Elements and not Included in Data
Analysis*

*Secondary Peaks are Reflections
and not Included in Data Analysis*





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COLLATERAL EFFECTS:

ITEM	FIRE START	PROPULSION	DISRUPTION OF ELEMENTS
Pillow	No flames observed - NFDD rolled off object > 24"	No	Yes
Cushion	Open flame observed	No	No
Objects	No flames observed	No	Yes



PILLOW TEST



CUSHION TEST



OBJECTS TEST

NFDD driven upwards by blast function

