

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

Noise Flash Diversionary Device (NFDD) PO DD400



DESCRIPTION:		
Tactical Device	Vents axially from both ends	Pull Ring Safety
Reloadable	Exhaust ports on top & bottom	Avg. Assembly Wt:
Aluminum Body	Small port top; single large port bottom	Pre Test: 9.12 oz
		Post Test: 7.9 oz

PACKAGING:				
9.25" H	24" W	9.25" L	8.47 lbs	Cardboard Box
			8 Bodies	1 per sealed plastic bag
			24 loads	2 per sealed plastic bag



PO DD400

TEST	PART S/N	GROSS WEIGHT		IGNITION DELAY sec.	BURN sec.	6 FEET				9 FEET				12 FEET						
		PRE-TEST oz	POST TEST* oz			PEAK		RADIANT FLUX J	PEAK		RADIANT FLUX J	PEAK		RADIANT FLUX J						
						ACOUSTIC NOISE	ILLUMINANCE		ACOUSTIC NOISE	ILLUMINANCE		ACOUSTIC NOISE	ILLUMINANCE							
															psi	db	LUX	ft-candle	psi	db
1	None	2.52	1.80																	
2	None	2.46	1.80																	
3	None	2.57	1.80																	
4	None	2.52	1.80																	
5	None	2.52	1.80																	
6	None	2.52	1.80																	
7	None	2.52	1.80																	
8	None	2.46	1.75																	
9	None	2.52	1.80																	
10	None	2.52	1.80	1.24	0.0032	0.40	163	10740926	997832	0.2	0.20	157	5205758	483615	0.1	0.16	155	2825025	262445	0.0
11	None	2.52	1.80	1.00	0.0043	0.31	161	14180105	1317332	0.5	0.25	159	5935407	551399	0.2	0.17	155	3518133	326835	0.1
12	None	2.52	1.80	1.37	0.0038	0.32	161	12523010	1163388	0.4	0.23	158	5747923	533982	0.2	0.15	154	3177794	295217	0.1
13	None	2.52	1.80	1.33	0.0096	0.29	160	6226979	578486	0.3	0.18	156	2692796	250161	0.1	0.13	153	1547610	143773	0.1
14	None	2.52	1.80	1.19	0.0078	0.16	155	6727209	624958	0.4	0.12	152	3023231	280858	0.2	0.06	147	1707773	158652	0.1
15	None	2.52	1.80	1.32	0.0026	0.37	162	17023912	1581521	0.3	0.29	160	7179150	666943	0.1	0.19	156	4144922	385063	0.1
16	None	2.52	1.80	1.48	0.0053	0.44	164	10071313	935625	0.3	0.27	159	4277151	397347	0.1	0.20	157	2513508	233505	0.1
17	None	2.52	1.80	1.28	0.0044	0.37	162	13222607	1228380	0.4	0.21	157	6413780	595840	0.2	0.17	156	3511849	326251	0.1
18	None	2.52	1.80	1.31	0.0037	0.23	158	14897869	1384012	0.5	0.16	155	6640809	616931	0.2	0.10	151	3769614	350197	0.1
19	None	2.52	1.80	1.14	0.0035	0.34	161	6835396	635008	0.2	0.24	158	3376547	313681	0.1	0.16	155	1797861	167021	0.0
20	None	2.52	1.80	1.49	0.0018	0.41	163	7705606	715851	0.1	0.28	160	3145693	292235	0.0	0.18	156	1884192	175041	0.0

DATA EXCLUDED DUE TO EQUIPMENT MALFUNCTION

Min	2.46	1.75	1.00	0.0018	0.16	155	6226979	578486	0.1	0.12	152	2692796	250161	0.0	0.06	147	1547610	143773	0.0
Max	2.57	1.80	1.49	0.0096	0.44	164	17023912	1581521	0.5	0.29	160	7179150	666943	0.2	0.20	157	4144922	385063	0.1
Range	0.11	0.05	0.49	0.0078	0.28	9	10796932	1003035	0.4	0.17	8	4486354	416782	0.2	0.13	10	2597312	241290	0.1
Std. Dev	0.0	0.0	0.1	0.0	0.1	2.6	3727648	346298	0.1	0.1	2.3	1630191	151445	0.1	0.0	2.9	926639	86085	0.0
Average	2.52	1.80	1.29	0.0045	0.33	161	10923176	1014763	0.3	0.22	157	4876204	452999	0.1	0.15	154	2763480	256727	0.1

FRAGMENTATION:

TEST	PART S/N	PRE-TEST* oz	POST TEST oz	IMPACTS	
				hits	perforations
21	None	2.55	1.80	0	0
22	None	2.55	1.80	0	0
23	None	2.55	18.00	0	0

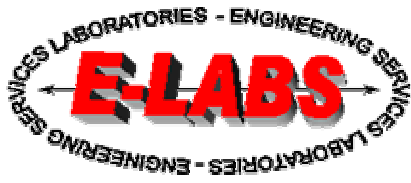
Std. Dev	0.0	9.4	0.0	0.0
Average	2.55	7.20	0.00	0.00



Functioned devices showing ports



Fragmentation Test

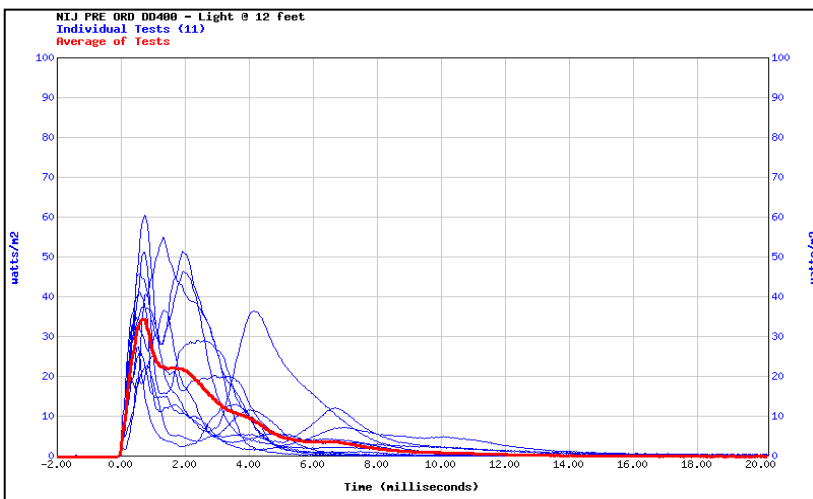
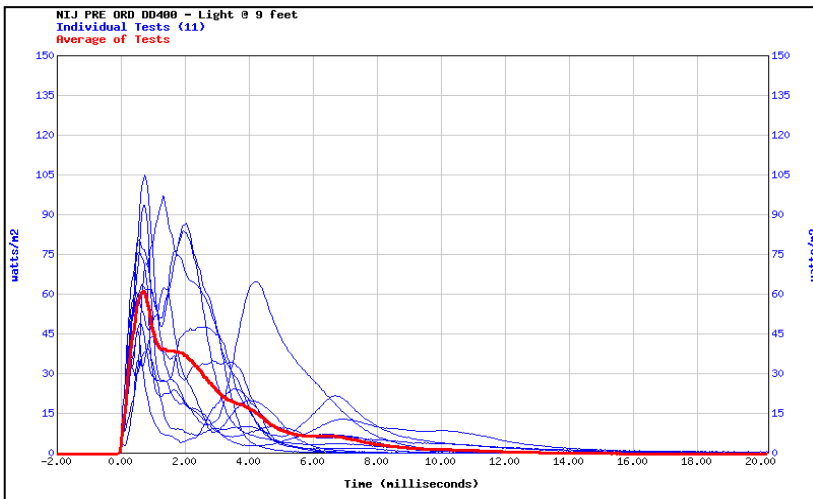
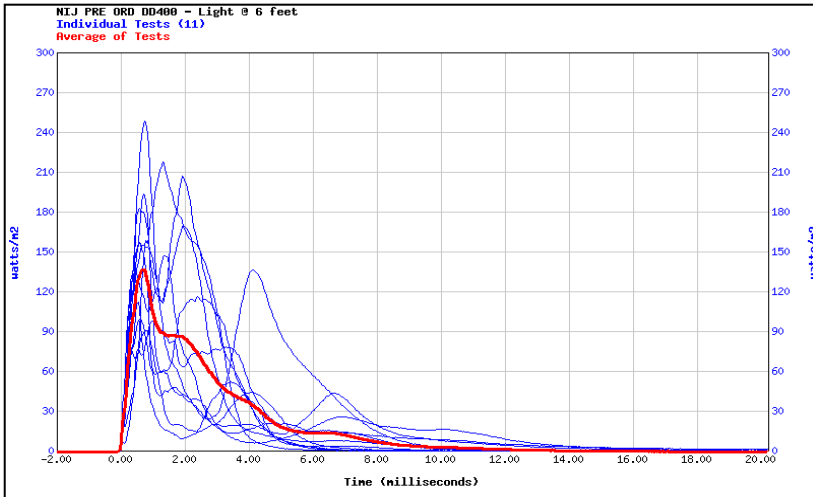


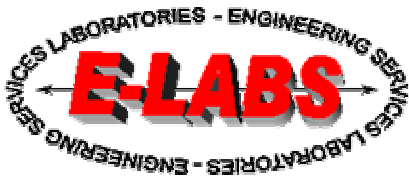
Grant 2002-DT-CX-K001
ID No. 065595
MJO 118

Noise Flash Diversionary Device (NFDD)

PO DD400

ILLUMINANCE
MEASUREMENTS
(W/m²)

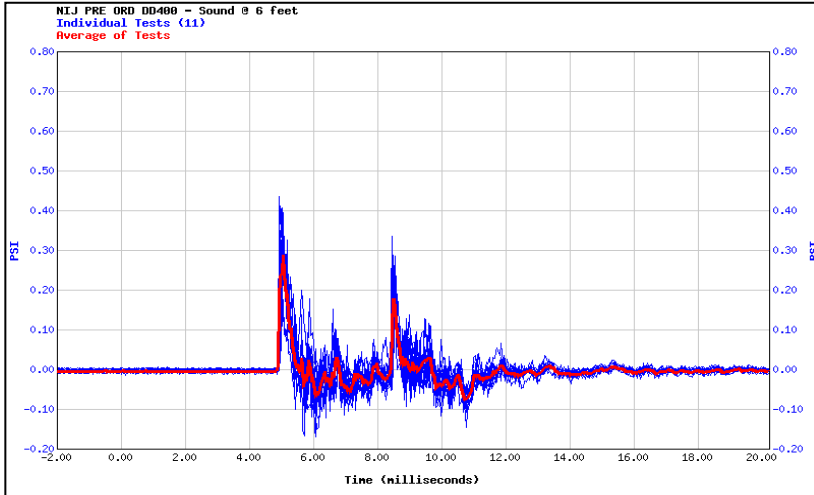




Grant 2002-DT-CX-K001
ID No. 065595
MJO 118

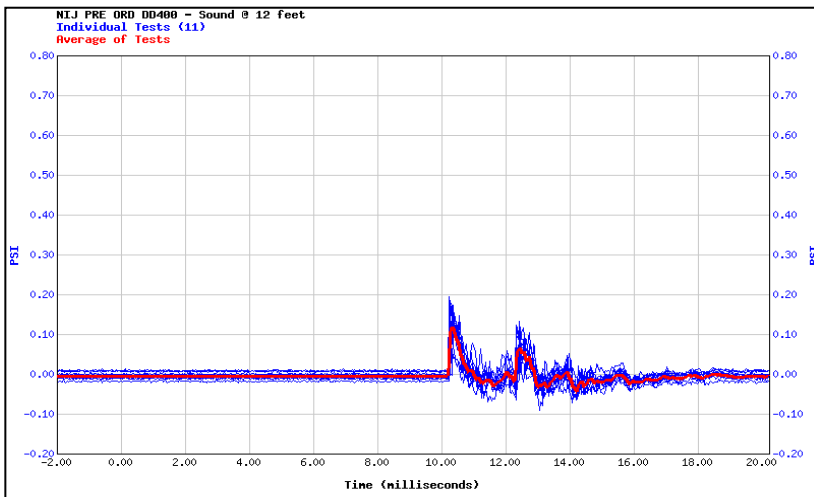
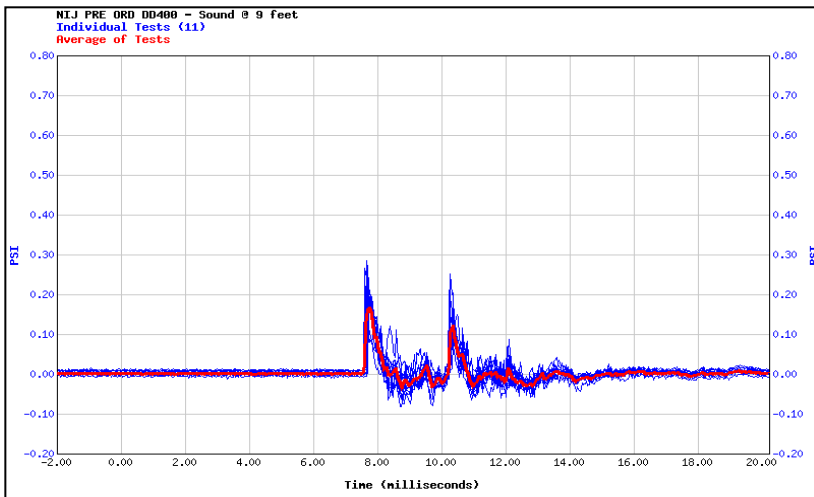
Noise Flash Diversionary Device (NFDD)

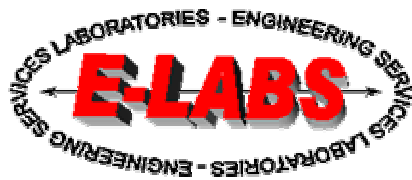
PO DD400



**PRESSURE MEASUREMENTS
(psi)**

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





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

Noise Flash Diversionary Device (NFDD) PO DD400

COLLATERAL EFFECTS:

ITEM	FIRE START	PROPULSION	DISRUPTION OF ELEMENTS
Pillow	No flames observed, slight charring of object	No	Yes
Cushion	No flames observed	No	No
Objects	No flames observed	No	No



PILLOW TEST

NFDD bounced and rolled away from object 12"



CUSHION TEST

NFDD bounced and rolled away from object > 24"



OBJECTS TEST

NFDD bounced and rolled < 12"

