APPENDIX G

NAVAL GUNFIRE SUPPORT

BATTLESHIP NAVAL GUNFIRE SUPPORT (NGFS) IN OPERATION DESERT STORM

The battleships WISCONSIN and MISSOURI contributed significantly to DESERT STORM in providing naval gunfire support for troops ashore. Their unmanned aerial vehicles (UAVs) gave them unique reconnaissance capabilities that were extensively used. The two battleships delivered over 2.1 million pounds of ordnance -- the equivalent of 542 A-6 missions. Battle damage assessment (BDA) was available for 41 of 80 missions and indicated that 68% of the targets received heavy damage or worse.

NGFS Data

Number of 16-inch missions fired:

WISCONSIN	33
MISSOURI	47
Total	80

Number of 16-inch round fired:

WISCONSIN	324
MISSOURI	759
Total	1083

Total ordnance delivered:

> 2,166,000 pounds (approximate)
> 4,322 Mk 82 bomb equivalents
> 542 A-6 mission equivalents

Spotter services:

> 41 (52%) missions were spotted by organic UAV.
> 8 (10%) missions were spotted by ground or air spotter.
> 31 (38%) missions were pre-planned/not spotted.

Calls for fire:

> (18%) missions were called for by ground forces.
> (82%) missions were pre-planned or self-determined.

Battle damage assessment (BDA):

BDA was not available for 39 missions due to lack of spotter or smoke and/or haze. BDA was available for 41 missions (68 targets):

light to moderate damage	32%
heavy damage	26%
target neutralized	10%
target destroyed	32%

Types of targets in NGFS missions:

artillery targets	17	command/observation posts	4
small boats (in port)	13 (1 mission)	troops in the open	4 (events)
AAW sites	10	logistics sites	3
bunkers	10	tanks	3
infantry in trenches	8 (events)	buildings	2
ammo storage sites	6	mine fields	2
SAM/SSM/rocket launchers	5	pier	1
radar/comm/ESM/SIGINT sites	5	trucks	1