NATIONAL CARGO BUREAU, INC.

ADDENDUM #2 TO THE GRAIN STABILITY CALCULATION FORM

TO BE COMPLETED WHEN A VESSEL, CARRYING GRAIN IN BULK, AND ENGAGED ON A VOYAGE ON THE INLAND OR COASTAL WATERS OF THE UNITED STATES, **ELECTS** AND IS **ENTITLED** TO UTILIZE THE PROVISIONS OF 46 CFR 172.030.

M.V./ S.S. _____ PORT _____

COLUMN #	1	2	3	4	5	6	7	8	9
SLACK HOLD #	L (WITHOUT C.L.)	L (WITH C.L.)	COLUMN # 2 DIVIDED BY 4	COLUMN # 1 PLUS COLUMN # 3	B	B^3	COLUMN # 4 x COLUMN # 6 x 0.0661	S.F.	COLUMN # 7 DIVIDED BY COLUMN # 8
								SUM OF COLUMN 9	

KEY

L	=	LENGTH OF HOLD
B	=	BREADTH OF GRAIN SURFACE
C.L.	=	CENTERLINE DIVISION
S.F.	=	STOWAGE FACTOR

NOTES

1. ALL DIMENSIONS MUST BE IN METERS (M), METRIC TONS (MT) AND M^3/MT OR, ALTERNATELY, IN FEET(FT), LONG TONS(LT) , AND FT^3/LT.
2. WHERE A C.L. DIVISION HALVES THE BREADTH, COLUMNS # 2 AND # 3 ADJUST THE CALCULATION FOR THIS REDUCTION.

DEPARTURE FROM:

DISPLACEMENT = _____

GM = _____

MEAN DRAFT = _____

FREEBOARD = _____

BEAM = _____

r = FREEBOARD / BEAM

r = _____ = _ _ _ _ _ _ _ _ _ _ _

IF r < 0.268 THEN

F = 0.268 DIVIDED BY r

OTHERWISE F = 1

F = _____

REQUIRED GM = **SUM x F** / DISPLACEMENT

= _____

REQUIRED GM = _____

AVAILABLE GM = _____

ARRIVAL AT:

DISPLACEMENT = _____

GM = _____

MEAN DRAFT = _____

FREEBOARD = _____

BEAM = _____

r = FREEBOARD / BEAM

r = _____ = _ _ _ _ _ _ _ _ _ _ _

IF r < 0.268 THEN

F = 0.268 DIVIDED BY r

OTHERWISE F = 1

F = _____

REQUIRED GM = **SUM x F** / DISPLACEMENT

= _____

REQUIRED GM = _____

AVAILABLE GM = _____

EXAMINED _____ _____ **DATE** _____

NCB SURVEYOR **MASTER**