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List of Reference Documentation
Combat Naval Gunfire Support File (CONGA), 1966-73:
NIPS format file and Supplemental for Fixed-length deNIPSed file
NN3-218-76-028
Records of the U.S. Joint Chiefs of Staff (Records Group 218)

Agency Documentation	Number of Pages
CONGA File User Instructions, 18 August 1972 (entire)	52
Preliminary File Documentation: File Combat Naval Gunfire File (CONGA), 23 June 1972	159
Combat Naval Gunfire Support File (CONGA): Console Run Book, December 1969	32

Additional supplemental documentation
(Filed with the Combat Air Summary Files (OPREA) (NN3-218-76-025) documentation)

Defense Communications Agency, Command and Control Technical Center, *NMCS Information Processing System 306 Formatted File System (NIPS 360 FFS) General Description*, Computer System Manual Number CSM GS 15-17, 1 September 1978. (41 pages)

Defense Communications Agency, Command and Control Technical Center, *NMCS Information Processing System 306 Formatted File System (NIPS 360 FFS) Volume I Introduction to File Concepts*, Computer System Manual Number CSM UM 15-78, 1 September 1978. (155 pages)

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CONGA File User Instructions

18 August 1972

Prepared by:

IBM Support Group (CURSIT)

NARA Reference Copy Page #2

ABBREVIATED CONGA FFT

FIELD	SET	LENGTH	TABLE	MEANING
SDATE	C	6		Mission Firing Date (YYMMDD)
STIME	C	6		Mission Start Time (DDZZZZ)
ETIME	C	6		Mission End Time (DDZZZZ)
UIC	C	6		UIC of Firing Ship
RCTRL	C	27		All Above
UDATE	F	5		Date of Last Update (YYJJJ)
SHPNM	F	16		Name of Firing Ship
SHPTP	F	4		Hull Type of Firing Ship
HLLNO	F	4		Hull Number of Firing Ship
ARCOD	F	1		CTZ to which Firing was Directed
COARD	F	8		UTM Coordinates of Target
OPNAM	F	13		Nickname of Operation Supported
FCSUP	F	7		Force Supported
TCODE	F	1		Period of the Day (D - N)
TGCOD	F	2	TARES	Target Type Code
PCODE	F	2	PROVS	Province Code
SPOTS	F	1		Spotter Info (None, Ground, Air, Ship)
DEDAF	F	3		DES or DAM to Ship
NPKIA	F	2		Friendly Personnel KIA
NPWIA	F	2		" " WIA
NPMIA	F	2		" " MIA
WDI	F	1		What Inflicted Damage (See Attached Tables)
FRSET	F	10		DEDAF, NPKIA, NPWIA, NPMIA, WDI
CALEX	1	4		Caliber of Ordnance Expended
ORTYP	1	5		Ordnance Type Expended
QTYEX	1	5		Quantity of Ordnance Expended
RANGE	1	3		Range to Target in Thousands of Yards
PSET1	1	18		CALEX, ORTYP, OTYEX, RANGE
ACTYP	2	6		Aircraft Envolved in Firing Mission
NACFT	2	2		Number of Aircraft available to Fly Sorties
TSORT	2	2		Number of Sorties Flown during Mission
NSEXP	2	2		Number of Sorties Expending Ammunition
LCODE	3	2	TARES	Enemy Loss Codes
MLQTY	3	3		Quantity of Enemy Loss
MLUNT	3	3		Enemy Loss by Unit Measurement
MLDDD	3	3		Enemy DES or DAM
EPKIL	3	3		Enemy Personnel KIA
PSET3	3	15		LCODE, MLQTY, MLUNT, MLDDD EPKIL

TABLES & CODES

WDI	F	1	What Inflicted Damage (To Friendly Ship)
			C CD Site
			M Missile
			S Ship
			A Aircraft
			I Unknown
			N Mine

TABLE TARES (89-90) (136-137)
FOR FIELD TGCOD & LCODE

A	WBLC OFFSHORE
AA	COMM SITE
AB	CSWY
AC	H AND I
AD	INTERDICTION PT
AE	NAVAL BASE
AF	PORT FACILITY
AG	R/R DEPOT
AI	VC/NVA POSIT
AJ	ARTILLARY SITE
AK	BUNKER
AL	INFILTRATION PT
AM	LIVESTOCK
AN	MORTAR SITE
AO	RICE STORAGE
AP	SAMPAN
AQ	ASSEMBLY AREA
AR	BASE CAMP
AS	AIRCRAFT
AT	MINEFIELD
AU	WEAPON
AV	BARGE
AW	SUPPLY RTE
AX	AREA/LZ PREP
AY	ILLUMINATION
AZ	OBSERV POST
B	WBLC REACHED
BA	TUNNEL
BB	AUTO WEAP POSIT
BC	VILLAGE
BD	STAGING AREA
BE	SECONDARY EXP
C	WBLC INLAND
D	CD SITE
E	MISSILE SITE
F	RADAR SITE
G	ROAD SEGMENT
H	R/R SEGMENT
I	BRIDGE/APP
J	FERRY/APP
K	TRANSHIP AREA
L	STORAGE AREA
M	MILITARY INSTAL
N	TROOP CONC
O	STRUCT/BUILDING
P	VEHICLE
R	CHOKE PT
Q	POL DEPOT
S	OTHER
T	AA SITE
U	AMMO STORAGE
V	BOAT REPAIR
W	BYPASS
X	CAVE
Y	CHECK PT
Z	CMD POST

TABLE PROVS (91-92)
FOR FIELD PCODE

00	UNKNOWN
01	QUANG TRI
02	THUA THIEN
03	QUANG NAM
04	QUANG TIN
05	QUANG NGAI
06	KONTUM
07	BINH DINH
08	PLEIKU
09	PHU YEN
10	DARLAC
11	KHANH HOA
12	TUYEN DUC
13	QUANG DUC
14	PHUOC LONG
15	LAM DONG
16	NINH THUAN
17	BINH THUAN
18	BINH TUY
19	LONG KHANH
20	PHUOC THANH
21	BINH LONG
22	TAY NINH
23	BINH DUONG
24	GIA DINH
25	BIEN HOA
26	PHUOC TUY
27	LONG AN
28	KIEN TUONG
29	KIEN PHONG
30	DINH TUONG
31	AN GIANG
32	VINH LONG
33	KIEN HOA
34	VINH BINH
35	PHONG DINH
36	KIEN GIANG
37	CHUONG THIEN
38	BA XUYEN
39	AN XUYEN
40	CON SON
41	PHU BON
42	HAU NGHIA
43	GO CONG
44	BAC LIEU
45	TRUNG PHON
46	SA DEC
47	CHAU DOC
48	HAUT CHHLONG
49	PHU QUOC ISL
50	DMZ
51	BUFFER ZONE
60	MUD RIVER
61	DUMP TRUCK

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CONGA File User Instructions

I. Data content

A. Basic data information - information pertaining to naval gunfire support missions in South Vietnam and shore bombardment in North Vietnam.

B. Specific data types

1. Identification of each record by firing date, starting time, ending time, ship UIC and message serial number.

2. Data about ship-operation area, target and friendly loss data.

3. Contains ordnance expenditure data - as reported by the daily Oprep-5 message.

4. Aircraft sortie data.

5. Structure and material enemy losses.

C. Geographic breakout - Data is available by area code (corp), province (for South Vietnam only) and geographic coordinates.

D. Time span - 1966 to present.

E. Level of data - daily.

F. Update cycle - updated daily in a batch mode.

G. File structure - One record per ship incident consisting of three subsets, with the fixed set describing friendly loss data and three periodic sets used to describe ordnance data, aircraft sortie data, and enemy loss data respectively.

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H. Record Structure

SDATE STIME ETIME UIC SERES

CONTROL FIELDS

UDATE SHPNM SHPTP HLLNO ARCOD COARD

OPCOD OPNAM FCSUP TCODE TGCOD PCODE

SPOTS DEDAF NPKIA NPWIA NPMIA WDI

FIXED SET

PARA1 CALEX ORTYP QTYEX RANGE

PERIODIC SET 1

PARA2 ACTYP NACFT TSORT NSEXP

PERIODIC SET 2

PARA3 LCODE MLQTY MLUNT MLDDD EPKIL

PERIODIC SET 3

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II. File Fields and Descriptions

A. FFT fields

NAME	FLD/GRP	LENGTH	MODE	SET	DESCRIPTION
SDATE	FIELD	006	ALPHA	CTL	firing date
STIME	FIELD	006	ALPHA	CTL	starting time
ETIME	FIELD	006	ALPHA	CTL	ending time
UIC	FIELD	006	ALPHA	CTL	ship UIC
SERES	FIELD	003	ALPHA	CTL	series number
RCTRL	GROUP		ALPHA	CTL	control group
UDATE	FIELD	005	NUMER	FIX	date of last update
SHPNM	FIELD	016	ALPHA	FIX	ship name
SHPTP	FIELD	004	ALPHA	FIX	ship type
HLLNO	FIELD	004	ALPHA	FIX	hull number
ARCOD	FIELD	001	ALPHA	FIX	area code
COARD	FIELD	008	ALPHA	FIX	target coords
OPCOD	FIELD	002	ALPHA	FIX	operation type
OPNAM	FIELD	013	ALPHA	FIX	operation supported
FCSUP	FIELD	007	ALPHA	FIX	force supported
TCODE	FIELD	001	ALPHA	FIX	period of day
TGCOD	FIELD	002	ALPHA	FIX	target type code
PCODE	FIELD	002	ALPHA	FIX	province code
SPOTS	FIELD	001	ALPHA	FIX	spotter info
DEDAF	FIELD	003	ALPHA	FIX	DES or DAM for ship
NPKIA	FIELD	002	NUMER	FIX	friendly personnel killed
NPWIA	FIELD	002	NUMER	FIX	friendly personnel wounded
NPMIA	FIELD	002	NUMER	FIX	friendly personnel missing
WDI	FIELD	001	ALPHA	FIX	who inflicted damage
FRSET	GROUP	010	ALPHA	FIX	fixed friendly information
PARA1	FIELD	001	ALPHA	SET1	subset no. for ordn. info.
CALEX	FIELD	004	ALPHA	SET1	caliber expended
ORTYP	FIELD	005	ALPHA	SET1	ordnance type
QTYEX	FIELD	005	NUMER	SET1	quantity expended - RDS
RANGE	FIELD	003	NUMER	SET1	range in thousands of yards
PSET1	GROUP	018			PERIODIC Ammunition info.
PARA2	FIELD	001	ALPHA	SET2	subset no. for sortie information

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NAME	FLD/GRP	LENGTH	MODE	SET	DESCRIPTION
ACTYP	FIELD	006	ALPHA	SET2	aircraft type
NACFT	FIELD	002	NUMER	SET2	no. of sorties available
TSORT	FIELD	002	NUMER	SET2	no. of sorties flown
NSEXP	FIELD	002	NUMER	SET2	no. of sorties expending ammo
PSET2	GROUP	013			Periodic sortie info.
PARA3	FIELD	001	ALPHA	SET3	subset # for enemy loss info.
LCODE	FIELD	002	ALPHA	SET3	loss code
MLQTY	FIELD	003	NUMER	SET3	loss quantity
MLUNT	FIELD	003	ALPHA	SET3	loss units
MLDDD	FIELD	003	ALPHA	SET3	DES or DAM designation
EPKIL	FIELD	003	NUMER	SET3	enemy personnel killed
PSET3	GROUP	015			Periodic enemy loss info.

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B. Field Descriptions

Control set

NAME	FLD/GRP	LENGTH	MODE	SET
SDATE	FIELD	006	ALPHA	CTL

Definition - contains the first two digits for year, second two digits for month, and the third two digits for day.

Example - 720620

STIME	FIELD	006	ALPHA	CTL

Definition - contains the first two digits for day firing began. Digits 3-6 are for the hour that the firing began in Zulu time.

Example - 280808

ETIME	FIELD	006	ALPHA	CTL

Definition - contains the first two digits for day firing ended with digits 3-6 for the hour that the firing ended in Zulu time.

Example - 280815

UIC	FIELD	006	ALPHA	CTL

Definition - contains the unit identification code of the ship/command originating the message.

Example - N52192

SERES	FIELD	003	ALPHA	CTL

Definition - contains the series number of the Oprep-5 message.

Example - 001

RCTRL	GROUP	027	ALPHA	CTL

Definition - this group consists of SDATE, STIME, ETIME, UIC and SERES.

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NAME	FLD/GRP	LENGTH	MODE	SET
UDATE	FIELD	005	NUMER	FIX

Definition - contains the date when the data record was last updated. It includes the first two digits for year and digits 3-5 for Julian day.

Example - 72173

SHPNM	FIELD	016	ALPHA	FIX

Definition - contains the name of the firing ship, truncated to sixteen characters if required.

Example - USS Hanson

SHPTP	FIELD	004	ALPHA	FIX

Definition - contains the hull type of the firing ship.

Example - DDG, CA, DD, DLG, CL, CLG.

HLLNO	FIELD	004	ALPHA	FIX

Definition - contains the specific hull number of the firing ship.

Example - 1045

ARCOD	FIELD	001	ALPHA	FIX

Definition - contains the identification of the corps area to which the gunfire support was provided for South Vietnam only.

Values - 1, 2, 3, 4

COARD	FIELD	008	ALPHA	FIX

Definition - contains the universal transverse mercator (UTM) coordinates of the target.

Example - XE510520

OPCOD	FIELD	002	ALPHA	FIX

Definition - contains the type of operation being reported which is NVN and SVN.

Values - NG - Naval Gunfire - VS
SE - Sea Dragon - VN

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NAME	FLD/GRP	LENGTH	MODE	SET
OPNAM	FIELD	013	ALPHA	FIX

Definition - contains the 'nickname' of the operation supported if a specific named operation is involved.
For sea dragon records field provides identification of record as 'Sea Dragon' left justified.

FCSUP	FIELD	007	ALPHA	FIX

Definition - contains identification of the ground forces supported, if available. If available in Sea Dragon records, this field reports inflictor of damage or destruction.
Example - VNMC

TCODE	FIELD	001	ALPHA	FIX

Definition - contains an indicator whether the mission commenced during the day or night.
Values - D - day
N - night

TGCOD	FIELD	002	ALPHA	FIX

Definition - contains the description of target type. For output, the code is automatically converted by the TARES table.

Codes - A - WBLC Offshire
AA - Comm Site
AB - CSWY
AC - H and I
AD - Interdiction PT
AE - Naval Base
AF - Port Facility
AG - R/R Depot
AI - VC/NVA Posit
AJ - Artillary Site
AK - Bunker
AL - Infiltration PT
AM - Livestock
AN - Mortar Site
AP - Sampan
AQ - Assembly Area
AR - Base Camp

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AS - Aircraft
AT - Minefield
AU - Weapon
AV - Barge
AW - Supply Rte
AX - Area/LZ Prep
AY - Illumination
AZ - Observ Post
B - WBLC Beached
BA - Tunnel
BB - Auto Weap Posit
BC - Village
BD - Staging Area
BE - Secondary Exp
BF - Junk
BG - Cargo Vessel
BH - Beach Strafe
BI - Hostile Fire
BJ - Fortified Area
BK - Fighting Holes
BL - Sniper Fire
BM - Recon by Fire
BN - Training Area
BO - Trench Line
BP - Unknown
C - WBLC Inland
D - CD Site
E - Missile Site
F - Radar Site
G - Road Segment
H - R/R Segment
I - Bridge/APP
J - Ferry/APP
K - Transhipping Area
L - Supply Area
M - Military Instal
N - Troop Conc
O - Struct/Building
PØ - Vehicle
P1 - Truck
P2 - Tank
R - Choke PT
S - Other
T - AA Site

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U - AMMO Storage
V - Boat Repair
W - Bypass
X - Cave
Y - Check PT
Z - CMD Post

NAME	FLD/GRP	LENGTH	MODE	SET
PCODE	FIELD	002	ALPHA	FIX

Definition - contains identity of the province in which the firing mission ended. The code is converted automatically by the PROVS table. Province codes are for SVN only.

Codes - 00 - Unknown
01 - Quang Tri
02 - Thua Thien
03 - Quang Nam
04 - Quang Tin
05 - Quang Ngai
06 - Kontum
07 - Binh Dinh
08 - Pleiku
09 - Phu Yen
10 - Darlac
11 - Khanh Hoa
12 - Tuyen Duc
13 - Quang Duc
14 - Phuoc Long
15 - Lam Dong
16 - Ninh Thuan
17 - Binh Thuan
18 - Binh Tuy
19 - Long Khanh
20 - Phuoc Thanh
21 - Binh Long
22 - Tay Ninh
23 - Binh Duong
24 - Gia Dinh
25 - Bien Hoa
26 - Phuoc Tuy
27 - Long An
28 - Kien Tuong

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29 - Kien Phong
30 - Dinh Tuong
31 - An Giang
32 - Vinh Long
33 - Kien Hoa
34 - Vinh Binh
35 - Phong Dinh
36 - Kien Giang
37 - Chuong Thien
38 - Ba Xuyen
39 - An Xuyen
40 - Con Son
41 - Phu Bon
42 - Hau Nghia
43 - Go Cong
44 - Bac Lieu
45 - Trung Phon
46 - Sac Dec
47 - Chau Doc
48 - Haut Chhlong
49 - Phu Quoc Isl
50 - DMZ
51 - Buffer Zone
60 - Mud River
61 - Dump Truck

NAME	FLD/GRP	LENGTH	MODE	SET
SPOTS	FIELD	001	ALPHA	FIX

Definition - contains information concerning what type of spotters were used for the firing mission.

Values - N - None
G - Ground
A - Air
S - Ship

DEDAF	FIELD	003	ALPHA	FIX

Definition - contains information as to whether the firing ship has been destroyed or damaged. Field will be blank if there is no damage.

Examples - DES
DAM

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NAME	FLD/GRP	LENGTH	MODE	SET
NPKIA	FIELD	002	NUMER	FIX

Definition - contains the number of friendly personnel on the firing ship killed in firing action.

Example - 10

NPWIA	FIELD	002	NUMER	FIX

Definition - contains the number of friendly personnel on the firing ship wounded in action.

Example - 15

NPMIA	FIELD	002	NUMER	FIX

Definition - contains the number of friendly personnel on the firing ship missing in firing action.

Example - 19

WDI	FIELD	001	ALPHA	FIX

Definition - contains which weapon inflicted damage to the firing ship.

Values - C - CD Site
M - Missile
S - Ship
A - Aircraft
1 - Unknown
T - Torpedo
N - Mine

FRSET	GROUP	010	ALPHA	FIX

Definition - this group consists of DEDAF, NPKIA, NPWIA, and WDI.

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NAME	FLD/GRP	LENGTH	MODE	SET
PARA1	FIELD	001	ALPHA	SET1

Definition - contains a one digit designator to identify entry in the D2 paragraph in the reporting message which lists data on ammunition expenditure contained in specific subset of periodic set 1.

Example - 1

CALEX	FIELD	004	ALPHA	SET1

Definition - contains the identification of the caliber of ordnance expended on the given target during the mission.

Example - 5/38,40MM

ORTYP	FIELD	005	ALPHA	SET1

Definition - contains the type of ordnance on the given target during the mission.

Example - high explosive HE, VT variable time

QTYEX	FIELD	005	NUMER	SET1

Definition - contains the total number of rounds of the indicated caliber and type expended on the target.

Example - 1000

RANGE	FIELD	003	NUMER	SET1

Definition - contains the range to the target in thousands of yards.

Example - 15

PSET1	GROUP	018	ALPHA	SET1

Definition - this group consists of PARA1, CALEX, ORTYP, QTYEX, and RANGE.

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NAME	FLD/GRP	LENGTH	MODE	SET
PARA2	FIELD	001	ALPHA	SET2

Definition - contains a one digit designator to identify entry in the F1 paragraph of the reporting message which lists data on structures destroyed/damaged in specific subset of periodic set 2.

Example - 2

ACTYP	FIELD	006	ALPHA	SET2

Definition - contains the aircraft involved in a firing mission.

Example - OV-21

NACFT	FIELD	002	NUMER	SET2

Definition - contains the number of aircraft available to fly sorties.

Example - 10

TSORT	FIELD	002	NUMER	SET2

Definition - contains the number of sorties flown during firing mission.

Example - 12

NSEXP	FIELD	002	NUMER	SET2

Definition - contains the number of sorties that expended ammunition during a firing mission.

Example - 15

PSET2	GROUP	013	ALPHA	SET2

Definition - this group consists of PARA2, ACTYP, NACFT, TSORT and NSEXP.

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NAME	FLD/GRP	LENGTH	MODE	SET
PARA3	FIELD	001	ALPHA	SET3

Definition - contains a one digit designator to identify entry in the K1 paragraph of the reporting message which lists data on structures destroyed/damaged contained in specific subset of periodic set 3.

Example - 3

LCODE	FIELD	002	ALPHA	SET3

Definition - contains the types of enemy losses. The code is automatically converted by the TARES table.

Codes - A - WBLC Offshore
AA - Comm Site
AB - CSWY
AC - H and I
AD - Interdiction PT
AE - Naval Base
AF - Port Facility
AG - R/R Depot
AI - VC/NVA Posit
AJ - Artillery Site
AK - Bunker
AL - Infiltration PT
AM - Livestock
AN - Mortar Site
AP - Sampan
AQ - Assembly Area
AR - Base Camp
AS - Aircraft
AT - Mine Field
AU - Weapon
AV - Barge
AW - Supply Rte
AX - Area/LZ Prep
AY - Illumination
AZ - Observ Post
B - WBLC Beached
BA - Tunnel
BB - Auto Weap Posit

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BC - Village
BD - Staging Area
BE - Secondary Exp
BF - Junk
BG - Cargo Vessel
BH - Beach Strafe
BI - Hostile Fire
BJ - Fortified Area
BK - Fighting Holes
BL - Sniper Fire
BM - Recon by Fire
BN - Training Area
BO - Trench Line
BP - Unknown
C - WBLC Inland
D - CD Site
E - Missile Site
F - Radar Site
G - Road Segment
H - R/R Segment
I - Bridge/APP
J - Ferry/APP
K - Tranship Area
L - Supply Area
M - Military Instal
N - Troop Conc
O - Struct/Building
PØ - Vehicle
P1 - Truck
P2 - Tank
R - Choke PT
S - Other
T - AA Site
U - AMMO Storage
V - Boat Repair
W - Bypass
X - Cave
Y - Check PT
Z - CMD Post

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NAME	FLD/GRP	LENGTH	MODE	SET
MLQTY	FIELD	003	NUMER	SET3

Definition - contains the amount of enemy loss during the firing mission.

Example - 10

MLUNT	FIELD	003	ALPHA	SET3

Definition - contains the unit of measurement for the material reported.

Example - TNS, EA

MLDDD	FIELD	003	ALPHA	SET3

Definition - contains 'DES' if material was destroyed and 'DAM' if material was damaged according to reported results.

EPKIL	FIELD	003	NUMER	SET3

Definition - contains the number of enemy personnel killed during firing mission.

Example - 10

PSET3	GROUP	015	ALPHA	SET3

Definition - this group consists of PARA3, LCODE, MLQTY, MLUNT, MLDDD, and EPKIL.

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Data Available for Terminal Processing

A. Current data base on disk

File - CONGA

Classification - ~~Secret~~
Disk Pack - ND0180
Time Span - 1969 - present
Data Content - data for 1 January 1969 to present

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Stored Programs Available for Terminal Processing

A. QUIP query - 'NG03T'

Output Description - produces report of the number of ships on station

Frequency - 'NG03T' is executed weekly

Replacement keys - YYMMDD (weekly startover date)

Invoke by entering:

FILE CONGA CLASS ~~SECRET~~.
LIMIT SDATE BT XXXXXX/XXXXXX.
LOAD 'NG03T'.
Q

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NUMBER OF SHIPS ON STATIONS AND AMMUNITION EXPENDED FOR SHIP TYPES CA, DD, DDG, DLG, CL, CLG

	NG	SE
FOR OPCODEQ COUNT	X	X
FOR OPCODEQ COUNT(1)	X	X
FOR OPCODEQ SUM QTYEX	XX	XX

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B. QUIP query - 'NG04T'

Output Description - produces report of ground damage assessment by designated ship types

Frequency - 'NG04T' is executed weekly

Replacement Keys - YYMMDD (weekly startover date)

Invoke by entering -

```
FILE CONGA CLASS SECRET.
LIMIT SDATE BT XXXXXX/XXXXXX.
LOAD 'NG04T'.
Q
```

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GROUND DAMAGE ASSESSMENT FOR
SHIP TYPES CA, DD, DDG, DLG, CL, CLG

	DES	DAM	SEC
FOR MLDDD EQ	XX	XX	XX
SUM			
MLQTY			

UNCLASSIFIED

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C. QUIP query - 'NG05T'

Output Description - produces report of enemy killed by designated ship types

Frequency - 'NG05T' is executed weekly

Replacement Keys - YYMMDD (weekly startover date)

Invoke by entering -

```
FILE CONGA CLASS SECRET.
LIMIT SDATE BT XXXXXX/XXXXXX.
LOAD "NG05T'.
Q
```

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ENEMY KILLED FOR SHIP TYPES
CA, DD, DDG, DLG, CL, CLG

FOR OPCOD EQ	NG	SE
SUM	X	X
EPKIL		

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D. QUIP query - 'NG07T'
Output Description - produces report of rounds expended for a designated time period in SVN and NVN.
Frequency - 'NG07T' is executed weekly
Replacement Keys - YYMMDD - weekly startover date
Invoke by entering -

```
FILE CONGA.CLASS SECRET.
LIMIT SDATE BT XXXXXX/XXXXXX.
LOAD 'NG07T'.
¬Q
```

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SUM - SOUTH VIETNAM - SUM1 - NORTH VIETNAM

FOR CALEX EQ AND ORTYP EQ

SUM	QTYEX	8/55	6/50	5/50	4/50	3/50	*	TOTAL
AAC		XX	XX	XX	XX	XX	XX	XXX
HC		XX	XX	XX	XX	XX	XX	XXX
HCPD		XX	XX	XX	XX	XX	XX	XXX

FOR CALEX EQ AND ORTYP EQ

SUM(1)	QTYEX	8/55	6/50	5/50	4/50	3/50	*	TOTAL
AAC		XX	XX	XX	XX	XX	XX	XXX
HC		XX	XX	XX	XX	XX	XX	XXX
HCPD		XX	XX	XX	XX	XX	XX	XXX

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NARA Reference Copy Page #30

E. QUIP query - 'NG08T'
Output Description - produces report of total missions, missions observed, missions unobserved, rounds expended observed, rounds expended unobserved in SVN and NVN.
Frequency - 'NG08T' is executed weekly
Replacement Keys - YYMMDD - weekly startover date
Invoke by entering -

```
FILE CONGA.CLASS SECRET.
LIMIT SDATE BT XXXXXX/XXXXXX.
LOAD 'NG08T'
¬Q
```


NARA Reference Copy Page #31

COUNT - MISSION COUNT

COUNT1 - MISSIONS OBSERVED

COUNT2 - MISSIONS UNOBSERVED

SUM - ROUNDS EXPENDED OBSERVED

SUM1 - ROUNDS EXPENDED UNOBSERVED

FOR OPCOD EQ AND TGCOD EQ

COUNT	TGCOD	NG	SE
AAB		XX	XX
*		XX	XX
TOTAL		XXX	XXX

FOR OPCOD EQ AND SPOTS EQ

COUNT(1)	SPOTS	NG	SE
AAA		XX	XX
BBB		XX	XX
CCC		XX	XX
TOTAL		XXX	XXX

FOR OPCOD EQ AND SPOTS EQ

COUNT(2)	SPOTS	NG	SE
DDD		XX	XX
TOTAL		XX	XX

FOR OPCOD EQ AND SPOTS EQ

SUM	QTYEX	NG	SE	TOTAL
AAA		XX	XX	XXX
BBB		XX	XX	XXX
CCC		XX	XX	XXX
TOTAL		XXX	XXX	XXXX

FOR OPCOD EQ AND SPOTS EQ

SUM(1)	QTYEX			
DDD		XXX	XXX	XXXX
TOTAL		XXX	XXX	XXXX

UNCLASSIFIED

NARA Reference Copy Page #32

F. QUIP query - 'NG09T'
Output Description - produces report of rounds expended in naval gunfire.
Frequency - 'NG09T' is executed weekly
Replacement Keys - YYMMDD - weekly startover date
Invoke by entering -

```
FILE CONGA.CLASS SECRET.
LIMIT SDATE BT XXXXXX/XXXXXX.
LOAD 'NG09T.
Q
```

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NND 97-3008
By BIA 29 APR 2002

REPRODUCED AT THE NATIONAL ARCHIVES

ROUNDS EXPENDED IN NAVAL GUNFIRE

SDATE

FOR CALEX EQ AND ORTYP EQ

SUM	QTYEX	8/55	6/50	5/50	4/50	3/50	*	TOTAL
AAC		XX	XX	XX	XX	XX	XX	XXX
HC		XX	XX	XX	XX	XX	XX	XXX
HCPD		XX	XX	XX	XX	XX	XX	XXX

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G. QUIP query - 'NG10T'
Output Description - produces report of rounds expended for designated time span in SVN and NVN.
Frequency - 'NG10T' is executed weekly
Replacement Keys - YYMMDD - weekly startover date
Invoke by entering -

```
FILE CONGA. CLASS SECRET.
LIMIT SDATE BT XXXXXX/XXXXXX.
LOAD 'NG10T'.
¬Q
```


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ROUNDS EXPENDED IN NORTH VIETNAM AND SOUTH VIETNAM

SDATE							
FOR CALEX EQ AND OPCOD EQ							
		8/55	6/50	5/50	4/50	3/50	TOTAL
SUM	QTYEX	XX	XX	XX	XX	XX	XXX
NG		XX	XX	XX	XX	XX	XXX
SE							
FOR CALEX EQ AND OPCOD EQ							
SUM1		XX	XX	XX	XX	XX	XXX
NG		XX	XX	XX	XX	XX	XXX
SE							

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NARA Reference Copy Page #36

H. QUIP query - NG11T'
Output Description - produces report of enemy losses in CONGA.
Frequency - 'NG11T' is executed weekly
Replacement Keys - YYMMDD - weekly startover date
Invoke by entering -

```
FILE CONGA.CLASS SECRET.
LIMIT SDATE BT XXXXXX/XXXXXX.
LOAD 'NG11T'.
¬Q
```


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ENEMY LOSSES IN CONGA

OPNAM	FCSUP	COARD	ARCOD	PCODE	SPORTS	TGCOD
	XXXXXXX		X	XXXXXXXXXX	X	XXXXXXXXXX

OPCOD	RCTRL	SHPNM	SHPIP	HLLNO	CALEX
	XXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XX	XXX	XXXX

ORTYP	QTYEX	RANGE	ACTYP	NACFT	TSORT	LCODE	MLQTY	MLUNT	EPKI
HECUT	XX	XXX				XXXXXXXX	X	XX	X X

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V. Data Available for Batch Processing

A. All disk data bases available for TP can also be processed in the batch mode

B. Current data base tape

The following tape data bases are retained as backup for the current CONGA file. One tape is created daily.

1.	NP0310	Rotational Backup	69 to Present
	NP0311	Rotational Backup	69 to Present
	NP0312	Rotational Backup	69 to Present
	NP0313	Rotational Backup	69 to Present
	NP0314	Rotational Backup	69 to Present

C. Historical data base tapes

NA0479	1 of 2	66 to 68
NA0471	2 of 2	68 to 69

NOTE - all data base tapes are unlabeled and are recorded at a density of 800 BPI. Contact the file programmer for batched output reports.

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VI. Stored Programs Available for Batched Processing

A. RASP/OP - 'NG01R'
Output Description - produces report of type ammunition expenditure totals
Frequency - with each update

B. RASP/OP - 'NG03R'
Output Description - produces summary by ship, by caliber
Frequency - monthly

C. RASP/OP-'NG05R'
Output Description - produces ordnance expenditure by type within caliber
Frequency - monthly

D. RASP/OP-'NG07R'
Output Description - produces summary by ship, by day
Frequency - monthly

E. RASP/OP - 'NG08R'
Output Description - produces report of firing and expenditure by day and by area
Frequency - monthly

F. RASP/OP-'NG09R'
Output Description - produces ammunition expenditure total by area
Frequency - monthly

G. RASP/OP - 'NG10R'
Output Description - produces report of type ordnance expenditures total by area, ship type, and calendar
Frequency - monthly

H. RASP/OP - 'NG12R'
Output Description - produces report of aircraft data
Frequency - monthly

I. RASP/OP - 'NG20R'
Output Description - produces a report of expenditures and losses quarterly by area for a quarter
Frequency - monthly

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J. RASP/OP - 'NG23R'
Output Description - produces loss summary
Frequency - monthly

K. RASP/OP - 'NG29R'
Output Description - produces a report of AMMO expended by area, by ship, by province
Frequency - weekly

NOTE: All QUIP queries available for TP can also be processed in the batch mode (see section IV). Contact the file programmer for batched output reports.

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REPORT NG01R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY

C-O-N-G-A R-E-C-O-R-D D-U-M-P

DATE OF REPORT-DD MMM YYYY

CONTROL DATE DD MMM YYYY DATE OF UPDATE YYDDD

OPERATION NAME	FORCE	UTM	CORPS AREA	PROVINCE	SPOT	TYPE OF TARGET	PERIOD OF DAY	TYPE	RECORD CONTROL: DATE OF FIRING	STARTING DAY TIME	ENDING DAY TIME	SHIP UIC	SERIES NUMBER
X OPNAM X	FCSUP	X-COORD-X	N X	PCODE X	X	TGCOD X	TCODE	OPCOD	YY/MM/DD	DD HHMM	DD HHMM	X UIC X	NNN

SHIP INFORMATION

NAME	TYPE	HULL
X SHPNM	X SHPTP	HLLNO

	DEGREE OF DAMAGE	PERSONNEL: KILLED	WOUNDED	MISSING	DAMAGE INFLICTED BY
FRIENDLY LOSSES	XXX	NNN	NNN	NNN	X

	PARAGRAPH NUMBER	ORDNANCE EXPENDED: CALIBER	TYPE	QUANTITY	RANGE TO TARGET
AMMUNITION EXPENDED	N	XXXX	XXXXX	NNNNN	NNNOOYDS
	N	XXXX	XXXXX	NNNNN	NNNOOYDS
	N	XXXX	XXXXX	NNNNN	NNNOOYDS

	PARAGRAPH NUMBER	AIRCRAFT SORTIES: AVAILABLE	TYPE	FLOWN	EXPENDING AMMO
AIRCRAFT INFORMATION	N	NN	XXXXXX	NN	NN
	N	NN	XXXXXX	NN	NN

	PARAGRAPH NUMBER	MATERIEL LOSSES: TYPE OF LOSS	QUANTITY	UNITS	DEGREE OF DAM	PERSONNEL KILLED
ENEMY LOSSES	N	X LCODE X	NNN	XXX	XXX	NNN
	N	X LCODE X	NNN	XXX	XXX	NNN

PAGE NNNNNN

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REPORT MG03R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

DATE OF REPORT-DD MMM YYYY

	S-U-P-P-O-R-T F-I-R-I-N-G	O-P-E-R-A-T-I-O-N-S S-U-M-M-A-R-Y	
SHIP TYPES PROVIDING SUPPORT	TYPE	NUMBER	
	XXXX	NN	
	XXXX	NN	
ORDNANCE EXPENDED	CALIBER	TYPE	NUMBER
	XXXX	XXXXX	NNNNNNN
	XXXX	XXXXX	NNNNNNN
	XXXX	XXXXX	NNNNNNN
SHIPS PROVIDING SUPPORT	NUM		
TOTAL MISSIONS FIRED	NNNN		
AVERAGE MISSIONS FIRED PER SHIP	NNNNNNNN.N		
TOTAL ROUNDS OF ORDNANCE EXPENDED	NNNNNNNN		
PERCENT OF FIRINGS AGAINST TARGETS WITH REPORTED RESULTS	PERCENTAGE NNNNN.NN	FIRINGS NNNNN	

PAGE NNNNNNN

REPORT NC05R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

TYPE AMMUNITION EXPENDITURE TOTALS

DATE OF REPORT-DD MM YYYY

CALIBER	ORDNANCE TYPE	AMOUNT EXPENDED
XXXX	XXXXX	NNNNNNN
XXXX	XXXXX	NNNNNNN
XXXX	XXXXX	NNNNNNN

TOTAL CALIBER XXXX EXPENDED NNNNNNNN

TOTAL AMMUNITION EXPENDED THIS PERIOD NNNNNNNNN

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REPORT NG07R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

G-U-N-F-I-R-E S-U-P-P-O-R-T S-U-M-M-A-R-Y B-Y S-H-I-P

DATE OF REPORT-DD MMM YYYY

FIRING SHIP	SHIP HULL TYPE NO.	CORPS AREA	DATE	OPERATION SUPPORTED	NO. OF FIRINGS	--AMMO EXPENDED-- CAL	TYPE	RNDS	PERSONNEL MIA	STRUCTURES DES	DMGD	NATL DMGD	MEAN CASUALTIES RANGE TO OWN SHIP	SERIES NO.
*---SHPNM-----X	XXXX XXXX	N	DD MMMYY	X--OPNAM----X	NN	XXXX	XXXXX	NNNNNNN	NNN	NNN	NNN	XXXNNNNNNNOOYDS	XXX	NNN

END OF REPORT

REPORT NC08R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

F-I-R-I-N-G-S B-Y D-A-T-E

DATE OF REPORT-DD MMM YYYY

....NO. FIRINGS / ROUNDS EXPENDED FOR CORPS AREAS

DATE	CORPS AREA 1		CORPSAREA 2		CORPS AREA 3		CORPS AREA 4		..CORPS AREA 1 .....STRUCTURES			CORPS AREA 2 STRUCTURES			.CORPS AREA 3 STRUCTURES			CORPS AREA 4 STRUCTURES		
									KIA	DES	DAM	KIA	DES	DAM	KIA	DES	DAM	KIA	DES	DAM
YYMMDD	NNN/	NNNNN	NNN/	NNNNN	NNN/	NNNNN	NNN/	NNNNN	NNNN	NNN	NNN	NNNN	NNN	NNN	NNNN	NNN	NNN	NNNN	NNN	NNN
YYMMDD	NNN/	NNNNN	NNN/	NNNNN	NN/	NNNNN	NNN/	NNNNN	NNNN	NNN	NNN	NNNN	NNN	NNN	NNNN	NNN	NNN	NNNN	NNN	NNN
TOTAL FOR PERIOD	NNNNN/NNNNNNNN		NNNNN/NNNNNNNN		NNNNN/NNNNNNNN		NNNNN/NNNNNNNN		NNNN	NNNN	NNNN	NNNN	NNNN	NNNN	NNNN	NNNN	NNNN	NNNN	NNNN	NNNN
PER CENTNNN/NNNNN HSNS/AMMO			NNN/NNNNN		NNN/NNNNN		NNN/NNNNN		GRAND TOTAL			KIA NNNNN			DES NNNNN			DAM NNNNN		

PAGE NNNNNNNN

REPORT NG09R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

TYPE AMMUNITION EXPENDITURE TOTALS

DATE OF REPORT-DD MMM YYYY

CORPS AREA	CALIBER	ORDNANCE TYPE	AMOUNT EXPENDED
X	XXXX	XXXXX	XXXXXXX

TOTAL CALIBER XXXX EXPENDED - XXXXXXXX

TOTAL ORDNANCE EXPENDED IN CORPS AREA X THIS PERIOD - XXXXXXXXX

TOTAL ORDNANCE EXPENDED THIS PERIOD ALL AREAS - XXXXXXXXXX

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REPORT NO10R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

TYPE AMMUNITION EXPENDITURE TOTALS

DATE OF REPORT-DD MMM YYYY

CORPS AREA	SHIP TYPE	CALIBER	ORDNANCE TYPE	AMOUNT EXPENDED
X	X	XXXX	XXXXX	XXXXXXX
	XXXX	XXXX	XXXXX	XXXXXXX
X				
	XXXX	XXXX	XXXXX	XXXXXXX

TOTAL CALIBER XXXX EXPENDED - XXXXXXXX

TOTAL ORDNANCE EXPENDED IN CORPS AREA X THIS PERIOD - XXXXXXXXX

TOTAL ORDNANCE EXPENDED THIS PERIOD ALL AREAS - XXXXXXXXXX

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REPORT NG12R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

A-I-R-C-R-A-F-T S-U-P-P-O-R-T F-O-R N-A-V-A-L O-P-E-R-A-T-I-O-N-S

DATE OF REPORT-DD MMM YYYY

CORPS AREA	AIRCRAFT SORTIES AVAILABLE TYPE	NO.	AIRCRAFT SPOTTING SORTIES TYPE	NO.	SORTIES EXPENDING ORDNANCE TYPE	NO.
X	XXXXXX	NNNN	XXXXXX	NNNN	XXXXXX	NNNN
TOTAL SORTIES		NNNNN		NNNNN		NNNNN
TOTAL SORTIES FOR ALL AREAS		NNNNNN		NNNNNN		NNNNNN

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REPORT NG20R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

DATE OF REPORT-DD MMM YYYY

N-A-V-A-L G-U-N-F-I-R-E U-T-I-L-I-Z-A-T-I-O-N S-V-N
B-Y R-V-N C-O-R-P-S A-R-E-A

196Y

	JAN	FEB	MAR	
I CORPS				
USN FIRINGS	NNNNN	NNNNN	NNNNN	NNNNNN
ROUNDS	NNNNNN	NNNNNN	NNNNNN	NNNNNNN
UC KIA	NNNNNN	NNNNNN	NNNNNN	NNNNNNN
STRUCTURES DESTROYED	NNNNN	NNNNN	NNNNN	NNNNNN
STRUCTURES DAMAGED	NNNNN	NNNNN	NNNNN	NNNNNN
VNN FIRINGS				
TOTAL				
USN				
FIRINGS	NNNNN	NNNNN	NNNNNN	NNNNNN
POUNDS	NNNNNN	NNNNNN	NNNNNNN	NNNNNNN
VC KIA	NNNNNN	NNNNNN	NNNNNNN	NNNNNNN
STRUCTURES DESTROYED	NNNN	NNNNN	NNNNNN	NNNNNN
STRUCTURES DAMAGED	NNNN	NNNNN	NNNNNN	NNNNNNN
VNN FIRINGS				

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REPORT NG2OR

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

N-A-V-A-L G-U-N-F-I-R-E U-T-I-L-I-Z-A-T-I-O-N N-V-N
B-Y R-O-U-T-E P-A-C-K-A-G-E

DATE OF REPORT-DD MMM YYYY

196Y

	JAN	FEB	MAR	
FTE PKG 1				
USN FIRINGS	NNNNN	NNNNN	NNNNN	NNNNNN
ROUNDS	NNNNNN	NNNNNN	NNNNNN	NNNNNNN
UC KIA	NNNNNN	NNNNNN	NNNNNN	NNNNNNN
STRUCTURES DESTROYED	NNNNN	NNNNN	NNNNN	NNNNNN
STRUCTURES DAMAGED	NNNNN	NNNNN	NNNNN	NNNNNN
VNN FIRINGS				
TOTAL				
USN				
FIRINGS	NNNNN	NNNNN	NNNNNN	NNNNNN
POUNDS	NNNNNN	NNNNNN	NNNNNN	NNNNNNN
VC KIA	NNNNNN	NNNNNN	NNNNNN	NNNNNNN
STRUCTURES DESTROYED	NNNN	NNNNN	NNNNN	NNNNNN
STRUCTURES DAMAGED	NNNN	NNNNN	NNNNN	NNNNNNN
VNN FIRINGS				

U

PAGE NNNNNNN

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REPORT NG23R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

N-A-V-A-L G-U-N-F-I-R-E L-O-S-S R-E-P-O-R-T
S-U-M-M-A-R-Y

DATE OF REPORT-DD MMM Y YY

CORPS AREA	LOSSES	MONTH	TARGET	AMOUNT	UNITS	DESIG
X	ENEMY	MMM YY	X LCODE X	NNNNN	XXX	XXX
X	FRIENDLY	MMM YY	SHIPS	NNNNN	EA	XXX
X	ENEMY	MMM YY	PERSONNEL	NNNNN	EA	KIA
X	FRIENDLY	MMM YY	PERSONNEL	NNNNN	EA	KIA
X	FRIENDLY	MMM YY	PERSONNEL	NNNNN	EA	KIA
X	FRIENDLY	MMM YY	PERSONNEL	NNNNN	EA	KIA

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REPORT NG29R

NAVAL GUNFIRE SUPPORT

ARCOD	SHIP	TYPE	PROVINCE	OPERATIONS SUPPORTED	AMMO EXPENDED	STRUCTURES DES	STRUCTURES DAM
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
AREA SUBTOTAL					XXXXX	XXX	XXX
TOTAL					XXXXXX	XXX	XXX

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PRELIMINARY FILE DOCUMENTATION

FILE COMBAT NAVAL GUNFIRE FILE (CONGA)

FILE DATE ~~MARCH 1969~~ 23 JUNE 72

TECHNICAL TEAM LEADER J-3 FILE ANALYST
PHONE OX5-9101

PROGRAMMER INTERNATIONAL BUSINESS MACHINES CORPORATION
PHONE OX7-3935

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PERSONNEL CONTACTS
QUALITY CONTROL REQUIREMENTS
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CONSOLE OPERATING INSTRUCTIONS
NARRATIVE OPERATING PROCEDURE
INPUT-OUTPUT FLOW CHART

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FILE DESCRIPTION

A. NARRATIVE

1. THE PURPOSE OF THE CONGA FILE IS TO PROVIDE INFORMATION ON NAVAL GUNFIRE SUPPORT IN SOUTHEAST ASIA.

2. THE CONGA FILE IS DESIGNED TO PROVIDE INFORMATION PERTAINING TO NAVAL GUNFIRE SUPPORT MISSIONS IN SOUTH VIETNAM AND SHORE BOMBARDMENT IN NORTH VIETNAM. DETAILS OF THE FIRING MISSION ITSELF, ENEMY LOSSES (PERSONNEL, STRUCTURES AND MATERIAL), FRIENDLY LOSSES AND ORDNANCE EXPENDITURES ARE CARRIED IN THE FILE. EACH FIRING MISSION FOR A SHIP IS RECORDED AS AN INDIVIDUAL FILE RECORD.

3. INFORMATION FOR THE CONGA FILE IS RECEIVED FROM OPREP-5 WEEKLY AND DAILY MESSAGES. TIME DELAY INVOLVED IN TRANSCRIPTION AND KEY PUNCHING REQUIRES THAT VERY RECENT DATA, E.G., MISSIONS FROM THE PREVIOUS WEEK, BE OBTAINED FROM THE NAVAL GUNFIRE SUPPORT MESSAGE.

4. THE FOLLOWING ORGANIZATIONS RECEIVE INFORMATION FROM THE CONGA FILE-

CINCPAC....COMMANDER IN CHIEF/PACIFIC
J-3.....JOINT CHIEF OF STAFF/OPERATIONS
OPNAV.....NAVAL OPERATIONS

5. THE CATEGORIES OF DATA CONTAINED IN EACH SET IN THE CONGA FILE ARE-

CONTROL SET	CONTAINS FIVE (5) CONTROL FIELDS THAT IDENTIFY EACH RECORD BY FIRING DATE, STARTING TIME, ENDING TIME, SHIP UIC AND MESSAGE SERIAL NUMBER.
FIXED SET	CONTAINS EIGHTEEN (18) FIXED FIELDS THAT CONTAIN INFORMATION ABOUT THE SHIP-OPERATION AREA, TARGET AND FRIENDLY LOSS DATA.
PERIODIC SET 1	CONTAINS ORDNANCE EXPENDITURE DATA.
PERIODIC SET 2	CONTAINS AIRCRAFT SORTIE DATA.
PERIODIC SET 3	CONTAINS STRUCTURE AND MATERIAL ENEMY LOSS DATA.

6. A MAJOR FILE REVISION WAS INITIATED IN AUGUST OF 1968, TO IMPROVE DATA QUALITY AND FILE ORGANIZATION AND TO REPORT NEW INFORMATION ON PROVINCES, AIRCRAFT SORTIES AVAILABLE, AIRCRAFT SORTIES FLOWN, AND AIRCRAFT SORTIES WITH ORDNANCE EXPENDED. AT THAT TIME THE PREPROCESSOR, FMS, AND TEN (10) RITS WERE REWRITTEN. THIS REDESIGN WAS COMPLETED 31 JANUARY 1969, AND CONVERSION FROM 1410 TO S/360 WAS COMPLETED 8 MAY 1969.

7. THIS VERSION OF THE FILE (AS OF MARCH 69) IS SIMILIAR TO AN EARLIER VERSION, EXCEPT FOR THE CHANGES INDICATED IN THE PRECEEDING PARAGRAPH.

8. THE EXPECTED GROWTH OF THE CONGA FILE IS 3,500 RECORDS PER MONTH.

2. DATA ON NAVAL GUNFIRE SUPPORT IN SOUTHEAST ASIA IS RECEIVED WEEKLY ON OPREP-5 MESSAGES. THIS INFORMATION IS TRANSCRIBED AND KEY PUNCHED. THE DATA IS RUN AGAINST THE PREPROCESSOR FOR VALIDATION AND DATA GENERATION. FILE MAINTENANCE IS EXECUTED ON THE OUTPUT OF THE PREPROCESSOR CREATING A NEW MASTER DATA BASE. THE POST UPDATE RETRIEVAL IS EXECUTED ON THE UPDATED DATA BASE IN ORDER TO MONITOR THE DATA INPUT AND TO PERFORM QUALITY CONTROL FUNCTIONS. WHEN ALL DATA FOR A MONTH IS ADDED TO THE FILE AND VALIDATED, THE MONTHLY RETRIEVALS AND OUTPUTS ARE PROCESSED AND DISSEMINATED TO J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV AND OSD(SA).
THE FILE IS MAINTAINED PRIMARILY BY J-3 IN THE PENTAGON. HOWEVER, COPIES OF THE OUTPUT TAPES ARE SENT TO CINCPAC, MACV AND FLAG PLOT.
ERRORS ARE HANDLED IN THE FOLLOWING MANNER - ERRORS THAT ARE LOCATED IN THE CONTROL FIELD ARE PASSED BY FMS AND LISTED AS ERRORS, ERRORS THAT ARE LOCATED IN THE DATA FIELD ARE FLAGGED BY THE PREPROCESSOR BUT ARE ADDED TO THE DATA BASE.
THE ONLY SPECIAL PROGRAM USED IN CONGA IS THE PREPROCESSOR, (CONGARAO).

3. THE PRODUCTION SCHEDULE AND DISTRIBUTION FOR EACH RIT IS AS FOLLOWS-

RIT	DESCRIPTION	REQUESTED	DISTRIBUTION	COPIES
NG01R	RECORD DUMP. (POST UPDATE RETRIEVAL)	WITH EACH UPDATE	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1
NG03R	SUMMARY BY SHIP BY CALIBER.	MONTHLY	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1
NG05R	ORDNANCE EXPENDITURES BY TYPE WITHIN CALIBER.	MONTHLY	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1
NG07R	SUMMARY BY SHIP BY DAY.	MONTHLY	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1
NG08R	FIRING AND EXPENDITURE BY DAY AND BY AREA.	MONTHLY	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1
NG09R	AMMUNITION EXPENDITURE TOTAL BY AREA.	MONTHLY	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1
NG10R	TYPE ORDNANCE EXPENDITURES TOTAL BY AREA, SHIP TYPE AND CALIBER.	MONTHLY	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1

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RIT	DESCRIPTION	REQUESTED	DISTRIBUTION	COPIES
NG12R	AIRCRAFT DATA.	MONTHLY	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1
NG20R	EXPENDITURES AND LOSSES BY AREA FOR A QUARTER.	QUARTERLY	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1
NG23R	LOSS SUMMARY.	MONTHLY	J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1
NG29R	AMMO EXPENDED BY AREA, BY SHIP, BY PROVINCE	WEEKLY	J-3,FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, OSD(SA)	1

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FILE FORMAT TABLE

```
        FSJOB CREATE,CONGA
        CLASS 'SECRET'
 PROVS TAB    A002 A013 OUTPUT            PCODE
 TARES TAB    A002 A015 OUTPUT            TGCOD,LCODE
* * * * * *   CONTROL FIELDS  * * * * * *
 SDATE FIELD  006,C, ,*$,ALPHA,*      ,'' FIRING DATE
*             CHAR 1-2 YEAR
*             CHAR 3-4 MONTH
*             CHAR 5-6 DAY
 STIME FIELD  006,C, ,*$,ALPHA,*      ,'' STARTING TIME (Z)
*             CHAR 1-2 DAY FIRING BEGAN
*             CHAR 3-6 HOUR FIRING BEGAN (Z)
 ETIME FIELD  006,C, ,*$,ALPHA,*      ,'' ENDING TIME (Z)
*             CHAR 1-2 DAY FIRING ENDED
*             CHAR 3-6 HOUR FIRING ENDED (Z)
 UIC   FIELD  006,C, ,*$,ALPHA,*      ,'' SHIP UIC
 SERES FIELD  003,C, ,*$,ALPHA,*      ,'' SERIES NUMBER
 RCTRL GROUP  SDATE,STIME,ETIME,UIC  ,SERES,*$,ALPHA,*      ,'' CONTROL GR
* * * * * *   FIXED FIELDS  * * * * * *
 UDATE FIELD  005,X, ,*$,NUMER,*      ,'' DATE OF LAST UPDATE
 SHPNM FIELD  016,X, ,*$,ALPHA,*      ,'' SHIP NAME (GEN IN PREPROC)
 SHPTP FIELD  004,X, ,*$,ALPHA,*      ,'' SHIP TYPE (GEN IN PREPROC)
 HLLNO FIELD  004,X, ,*$,ALPHA,*      ,'' HULL NUMBER (GEN IN PREPROC)
 ARCOD FIELD  001,X, ,*$,ALPHA,*      ,'' AREA CODE
 COORD FIELD  008,X, ,*$,ALPHA,*      ,'' TARGET COORDS
 OPCOD FIELD  002,X, ,*$,ALPHA,*      ,'' OPERATION TYPE
*             NG FOR NAVAL GUNFIRE
*             SE FOR SEA DRAGON
 OPNAM FIELD  013,X, ,*$,ALPHA,*      ,'' OPERATION SUPPORTED
 FCSUP FIELD  007,X, ,*$,ALPHA,*      ,'' FORCE SUPPORTED
 TCODE FIELD  001,X, ,*$,ALPHA,*      ,'' PERIOD OF DAY
*             D FOR DAY
*             N FOR NIGHT
 TGCOD FIELD  002,X, ,*$,ALPHA,*TARES,'' TARGET TYPE CODE
*             REFER TO TABLE TARES
 PCODE FIELD  002,X, ,*$,ALPHA,*PROVS,'' PROVINCE CODES
*             REFER TO TABLE PROVS
 SPOTS FIELD  001,X, ,*$,ALPHA,*      ,'' SPOTTER INFO
*             N FOR NONE
*             G FOR GROUND
*             A FOR AIR
*             S FOR SHIP
* * * * * *   FIXED FRIENDLY INFO  * * * * * *
 DEDAF FIELD  003,X, ,*$,ALPHA,*      ,'' DES OR DAM FOR SHIP
 NPKIA FIELD  002,X, ,*$,NUMER,*      ,'' FRIENDLY PERSONNEL KILLED
 NPWIA FIELD  002,X, ,*$,NUMER,*      ,'' FRIENDLY PERSONNEL WOUNDED
 NPMIA FIELD  002,X, ,*$,NUMER,*      ,'' FRIENDLY PERSONNEL MISSING
 WDI   FIELD  001,X, ,*$,ALPHA,*      ,'' WHO INFLICTED DAMAGE
*             C FOR CD SITE
*             M FOR MISSILE
*             S FOR SHIP
```

```
*            A FOR AIRCRAFT
*            U FOR UNKNOWN
*            T FOR TORPEDO
*            N FOR MINE
 FRSET GROUP DEDAF,NPKIA,NPWIA,NPMIA,WDI  ,*$,ALPHA,*     ,'' FRIENDLY
* * * * * *  PERIODIC SET 1 ORDANCE  * * * * * *
 PARA1 FIELD 001,1,S,*$,ALPHA,*     ,'' PARAGRAPH ON 1
 CALEX FIELD 004,1,S,*$,ALPHA,*     ,'' CALIBER EXPENDED
 ORTYP FIELD 005,1,S,*$,ALPHA,*     ,'' ORDNANCE TYPE
 QTYEX FIELD 005,1,S,*$,NUMER,*     ,'' QUANTITY EXPENDED (ROUNDS)
 RANGE FIELD 003,1,S,*$,NUMER,*     ,'' RANGE IN THOUSANDS OF YARDS
 PSET1 GROUP PARA1,CALEX,ORTYP,QTYEX,RANGE,*$,ALPHA,*     ,'' SET 1
* * * * * *  PERIODIC SET 2 AIRCRAFT  * * * * * *
 PARA2 FIELD 001,2,S,*$,ALPHA,*     ,'' PARAGRAPH ON 2
 ACTYP FIELD 006,2,S,*$,ALPHA,*     ,'' AIRCRAFT TYPE
 NACFT FIELD 002,2,S,*$,NUMER,*     ,'' NUMBER OF SORTIES AVAILABLE
 TSORT FIELD 002,2,S,*$,NUMER,*     ,'' NUMBER OF SORTIES FLOWN
 NSEXP FIELD 002,2,S,*$,NUMER,*     ,'' NUMBER OF SORTIES EXPENDING AMMO
 PSET2 GROUP PARA2,ACTYP,NACFT,TSORT,NSEXP,*$,ALPHA,*     ,'' SET 2
* * * * * *  PERIODIC SET 3 ENEMY LOSSES  * * * * * *
 PARA3 FIELD 001,3,S,*$,ALPHA,*     ,'' PARAGRAPH ON 3
 LCODE FIELD 002,3,S,*$,ALPHA,*TARES,'' LOSS CODE
*            REFER TO TABLE TARES
 MLQTY FIELD 003,3,S,*$,NUMER,*     ,'' LOSS QUANTITY
 MLUNT FIELD 003,3,S,*$,ALPHA,*     ,'' LOSS UNITS
 MLDDD FIELD 003,3,S,*$,ALPHA,*     ,'' DES OR DAM DESIGNATION
 EPKIL FIELD 003,3,S,*$,NUMER,*     ,'' ENEMY PERSONNEL KILLED
 PSET3 GROUP PARA3,LCODE,MLQTY,MLUNT,MLDDD,EPKIL,*$,ALPHA,*     ,'' SET3
       ENDFS
```

FILE DETAIL

********** CONTROL FIELDS **********

1. MISSION FIRING DATE

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
SDATE	F	6		NUMERIC

CONTAINS FIRST TWO DIGITS FOR YEAR, E.G., 68 FOR 1968
SECOND TWO DIGITS FOR MONTH, E.G., 04 FOR APRIL
THIRD TWO DIGITS FOR DAY OF THE MONTH.

2. MISSION STARTING TIME

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
STIME	F	6		NUMERIC

CONTAINS FIRST TWO DIGITS FOR DAY FIRING BEGAN. DIGITS 3-6 FOR THE HOUR THAT THE FIRING BEGAN IN ZULU TIME.

3. MISSION ENDING TIME

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
ETIME	F	6		NUMERIC

CONTAINS FIRST TWO DIGITS FOR DAY FIRING ENDED. DIGITS 3-6 FOR THE HOUR THAT THE FIRING ENDED IN ZULU TIME.

4. UNIT IDENTIFICATION CODE OF THE FIRING SHIP

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
UIC	F	6		ALPHA

CONTAINS THE UNIT IDENTIFICATION CODE OF THE SHIP/COMMAND ORIGINATING THE MESSAGE.

5. MESSAGE SERIAL NUMBER

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
SERES	F	3		ALPHA

CONTAINS THE SERIES NUMBER OF THE OPREP-5 MESSAGE.

6. RECORD CONTROL GROUP

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE

--	-----	------	----	----------
RCTRL	G	27		ALPHA

THIS GROUP CONSISTS OF SDATE, STIME, ETIME, UIC AND SERES.

********** FIXED FIELDS **********

7. DATE OF LAST UPDATE

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
--	-----	------	----	----------
UDATE	F	5		NUMERIC

CONTAINS THE DATE WHEN THE DATA RECORD WAS LAST UPDATED.
IT INCLUDES FIRST TWO DIGITS FOR YEAR,E.G. 68 FOR 1968
DIGITS 3-5 FOR JULIAN DAY E.G., 013 FOR 13 JAN.

8. NAME OF FIRING SHIP

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
--	-----	------	----	----------
SHPNM	F	16		ALPHA

CONTAINS THE NAME OF THE FIRING SHIP, TRUNCATED TO SIXTEEN CHARACTERS IF REQUIRED.

9. TYPE OF FIRING SHIP

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
--	-----	------	----	----------
SHPTP	F	4		ALPHA

CONTAINS THE HULL TYPE OF FIRING SHIP.

10. HULL NUMBER OF THE FIRING SHIP

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
--	-----	------	----	----------
HLLNO	F	4		ALPHA

CONTAINS THE SPECIFIC HULL NUMBER OF THE FIRING SHIP.

11. AREA CODE OF FIRING MISSION

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
--	-----	------	----	----------
ARCOD	F	1		ALPHA

CONTAINS THE IDENTIFICATION OF THE CORPS AREA TO WHICH THE GUNFIRE SUPPORT WAS PROVIDED.

12. UTM TARGET COORDINATES

FIELD/

ID	GROUP	LENGTH	CODE	DATA VALUE
COARD	F	8		ALPHA

CONTAINS THE UNIVERSAL TRANSVERSE MERCATOR (UTM) COORDINATES OF THE TARGET.
IN THE 1410 VERSION, THE I.D. NAME WAS COORD. HOWEVER, IN S/360 THIS IS A RESERVED WORD. THIS MADE IT NECESSARY TO CHANGE THE NAME TO COARD.

13. TYPE OF OPERATION

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
OPCOD	F	2		ALPHA
			NG	NAVAL GUNFIRE
			SE	SEA DRAGON

CONTAINS THE TYPE OF OPERATION BEING REPORTED.

14. OPERATION SUPPORTED

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
OPNAM	F	13		ALPHA

CONTAINS THE 'NICKNAME' OF THE OPERATION SUPPORTED IF A SPECIFIC NAMED OPERATION IS INVOLVED. FOR SEA DRAGON RECORDS FIELD PROVIDES IDENT. OF RECORD AS 'SEA DRAGON' LEFT JUSTIFIED.

15. FORCE SUPPORTED

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
FCSUP	F	7		ALPHA

CONTAINS IDENTIFICATION OF THE GROUND FORCE SUPPORTED, IF AVAILABLE. IN SEA DRAGON RECORDS, THIS FIELD CONTAINS THE DATA AS TO THE INFLICTOR OF DAMAGE OR DESTRUCTION.

16. PERIOD OF DAY

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
TCODE	F	1	D	DAY
			N	NIGHT

CONTAINS AN INDICATOR WHETHER THE MISSION COMMENCED DURING THE DAY OR AT NIGHT.

17. TARGET TYPE CODE

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE

TGCOD	F	2		ALPHA
			TABLE TARES	SEE APPENDIXA

CONTAINS DESCRIPTION OF TARGET TYPE. (EXAMPLE- BUILDINDS, TRENCHES, OR TROOPS)

18. PROVINCE CODES

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
PCODE	F	2		ALPHA
			TABLE PROVS	SEE APPENDIXA

CONTAINS IDENTITY OF THE PROVINCE IN WHICH THE FIRING MISSION ENDED.

19. SPOTTER INFORMATION

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
SPOTS	F	1		ALPHA
			N	NONE
			G	GROUND
			A	AIR
			S	SHIP

CONTAINS INFORMATION CONCERNING WHAT TYPE OF SPOTTERS WERE USED FOR THE FIRING MISSION.

20. DESTRUCTION OR DAMAGE TO SHIP

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
DEDAF	F	3		ALPHA
			DES	DESTROYED
			DAM	DAMAGED

CONTAINS INFORMATION AS TO WHETHER THE FIRING SHIP HAS BEEN DESTROYED OR DAMAGED. FIELD WILL BE BLANK IF THERE IS NO DAMAGE TO THE SHIP.

21. FRIENDLY PERSONNEL KILLED

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
NPKIA	F	2		NUMERIC

CONTAINS THE NUMBER OF FRIENDLY PERSONNEL ON THE FIRING SHIP KILLED IN FIRING ACTION.

22. FRIENDLY PERSONNEL WOUNDED

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
NPWIA	F	2		NUMERIC

CONTAINS THE NUMBER OF FRIENDLY PERSONNEL ON THE FIRING SHIP WOUNDED IN ACTION.

23. FRIENDLY PERSONNEL MISSING

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
NPMIA	F	2		NUMERIC

CONTAINS THE NUMBER OF FRIENDLY PERSONNEL ON THE FIRING SHIP MISSING IN FIRING ACTION.

24. WHAT INFLICTED DAMAGE

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
WDI	F	1		ALPHA
			C	CD SITE
			M	MISSILE
			S	SHIP
			A	AIRCRAFT
			1	UNKNOWN
			T	TORPEDO
			N	MINE

CONTAINS WHICH WEAPON INFLICTED DAMAGE TO THE FIRING SHIP.

25. FRIENDLY DAMAGE INFORMATION

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
FRSET	G	10		ALPHA

THIS GROUP CONSISTS OF DEDAF, NPKIA, NPWIA, NPMIA AND WDI.

********** PERIODIC SET 1 **********

26. PARAGRAPH ON SET 1

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
PARA1	F	1		ALPHA

CONTAINS A ONE DIGIT DESIGNATOR TO IDENTIFY ENTRY IN THE D2 PARAGRAPH IN THE REPORTING MESSAGE WHICH LISTS THE DATA ON AMMUNITION EXPENDITURE CONTAINED IN SPECIFIC SUBSET OF PERIODIC SET 1.

27. CALIBER EXPENDED

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE

CALEX	F	4		ALPHA

CONTAINS THE IDENTIFICATION OF THE CALIBER OF ORDNANCE EXPENDED ON THE GIVEN TARGET DURING THE MISSION. (EXAMPLE- 5/38,40 MM)

28. ORDNANCE TYPE

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
ORTYP	F	5		ALPHA

CONTAINS THE TYPE OF ORDNANCE EXPENDED ON THE GIVEN TARGET DURING THE MISSION. (EXAMPLE- HE , VT)

29. QUANTITY EXPENDED (ROUNDS)

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
QTYEX	F	5		NUMERIC

CONTAINS THE TOTAL NUMBER OF ROUNDS OF THE INDICATED CALIBER AND TYPE EXPENDED ON THE TARGET.

30. RANGE (THOUSANDS OF YARDS)

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
RANGE	F	3		NUMERIC

CONTAINS THE RANGE TO THE TARGET IN THOUSANDS OF YARDS.

31. PERIODIC SET 1

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
PSET1	G	18		ALPHA

THIS GROUP CONSISTS OF PARA1, CALEX, ORTYP, QTYEX, AND RANGE.

********** PERIODIC SET 2 **********

32. PARAGRAPH ON SET 2

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
PARA2	F	1		ALPHA

CONTAINS A ONE DIGIT DESIGNATOR TO IDENTIFY ENTRY IN THE F1 PARAGRAPH OF THE REPORTING MESSAGE WHICH LISTS DATA ON STRUCTURES DESTROYED/ DAMAGED CONTAINED IN SPECIFIC SUBSET OF PERIODIC SET 2.

33. AIRCRAFT TYPE

FIELD/

ID	GROUP	LENGTH	CODE	DATA VALUE
ACTYP	F	6		ALPHA

CONTAINS THE AIRCRAFT INVOLVED IN A FIRING MISSION.

34. NUMBER OF SORTIES AVAILABLE

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
NACFT	F	2		NUMERIC

CONTAINS THE NUMBER OF AIRCRAFT AVAILABLE TO FLY SORTIES.

35. NUMBER OF SORTIES FLOWN

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
TSORT	F	2		NUMERIC

CONTAINS THE NUMBER OF SORTIES FLOWN DURING FIRING MISSION.

36. NUMBER OF SORTIES EXPENDING AMMUNITION

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
NSEXP	F	2		NUMERIC

CONTAINS THE NUMBER OF SORTIES THAT EXPENDED AMMUNITION DURING A FIRING MISSION.

37. PERIODIC SET 2

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
PSET2	G	13		NUMERIC

THIS GROUP CONSISTS OF PARA2, ACTYP, NACFT, TSORT AND NSEXP.

********** PERIODIC SET 3 **********

38. PARAGRAPH ON SET 3

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
PARA3	F	1		ALPHA

CONTAINS A ONE DIGIT DESIGNATOR TO IDENTIFY ENTRY IN THE K1 PARAGRAPH OF THE REPORTING MESSAGE WHICH LISTS DATA ON STRUCTURES DESTROYED/ DAMAGED CONTAINED IN SPECIFIC SUBSET OF PERIODIC SET 3.

39. ENEMY LOSS CODES

FIELD/

ID	GROUP	LENGTH	CODE	DATA VALUE
LCODE	F	2		ALPHA
			TABLE TARES	SEE APPENDIXA

CONTAINS THE TYPE OF ENEMY LOSSES.

40. QUANTITY OF ENEMY LOSS

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
MLQTY	F	3		NUMERIC

CONTAINS THE AMOUNT OF ENEMY LOSS DURING THE FIRING MISSION.

41. ENEMY LOSSES (UNITS)

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
MLUNT	F	3		ALPHA

CONTAINS THE UNIT OF MEASUREMENT FOR THE MATERIAL REPORTED.
(EXAMPLE - TNS , EA)

42. ENEMY DAMAGE INFORMATION

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
MLDDD	F	3		ALPHA
			DES	DESTROYED
			DAM	DAMAGED

CONTAINS 'DES' IF MATERIAL WAS DESTROYED AND 'DAM' IF MATERIAL WAS DAMAGED ACCORDING TO REPORTED RESULTS.

43. ENEMY PERSONNEL KILLED

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
EPKIL	F	3		NUMERIC

CONTAINS THE NUMBER OF ENEMY PERSONNEL KILLED DURING FIRING MISSION.

44. PERIODIC SET 3

ID	FIELD/ GROUP	LENGTH	CODE	DATA VALUE
PSET3	G	15		ALPHA

THIS GROUP CONSISTS OF PARA3, LCODE, MLQTY, MLUNT, MLDDD, AND EPKIL.

TABLE	TARES	01 02 30 44 0
A		WBLC OFFSHORE
AA		COMM SITE
AB		CSWY
AC		H AND I
AD		INTERDICTION PT
AE		NAVAL BASE
AF		PORT FACILITY
AG		R/R DEPOT
AI		VC/NVA POSIT
AJ		ARTILLARY SITE
AK		BUNKER
AL		INFILTRATION PT
AM		LIVESTOCK
AN		MORTAR SITE
AP		SAMPAN
AQ		ASSEMBLY AREA
AR		BASE CAMP
AS		AIRCRAFT
AT		MINEFIELD
AU		WEAPON
AV		BARGE
AW		SUPPLY RTE
AX		AREA/LZ PREP
AY		ILLUMINATION
AZ		OBSERV POST
B		WBLC BEACHED
BA		TUNNEL
BB		AUTO WEAP POSIT
BC		VILLAGE
BD		STAGING AREA
BE		SECONDARY EXP
BF		JUNK
BG		CARGO VESSEL
BH		BEACH STRAFE
BI		HOSTILE FIRE
BJ		FORTIFIED AREA
BK		FIGHTING HOLES
BL		SNIPER FIRE
BM		RECON BY FIRE
BN		TRAINING AREA
BO		TRENCH LINE
BP		UNKNOWN
C		WBLC INLAND
D		CD SITE
E		MISSILE SITE
F		RADAR SITE
G		ROAD SEGMENT
H		R/R SEGMENT
I		BRIDGE/APP
J		FERRY/APP
K		TRANSHIP AREA
L		SUPPLY AREA

M	MILITARY INSTAL
N	TROOP CONC
O	STRUCT/BUILDING
P	VEHICLE
P1	TRUCK
P2	TANK
R	CHOKE PT
S	OTHER
T	AA SITE
U	AMMO STORAGE
V	BOAT REPAIR
W	BYPASS
X	CAVE
Y	CHECK PT
Z	CMD POST
Q	POL

```
TABLE     PROVS                 02        12        F
* PROVS - PROVINCE AND AREA CODE OUTPUT CONVERSION AND INPUT VALIDATION
**        --------------              ----------------
***       A.1. FILE - COARA  2. FIELD - PROVN
****      B.1. FILE - GFOPA  2. FIELD
     ********  FILE-COMBA      FIELDS-TGLOC 4/5, AILOC 3/4
00                           UNKNOWN
01                           QUANG TRI
02                           THUA THIEN
03                           QUANG NAM
04                           QUANG TIN
05                           QUANG NGAI
06                           KONTUM
07                           BINH DINH
08                           PLEIKU
09                           PHU YEN
10                           DARLAC
11                           KHANH HOA
12                           TUYEN DUC
13                           QUANG DUC
14                           PHUOC LONG
15                           LAM DONG
16                           NINH THUAN
17                           BINH THUAN
18                           BINH TUY
19                           LONG KHANH
20                           PHUOC THANH
21                           BINH LONG
22                           TAY NINH
23                           BINH DUONG
24                           GIA DINH
25                           BIEN HOA
26                           PHUOC TUY
27                           LONG AN
28                           KIEN TUONG
29                           KIEN PHONG
30                           DINH TUONG
31                           AN GIANG
32                           VINH LONG
33                           KIEN HOA
34                           VINH BINH
35                           PHONG DINH
36                           KIEN GIANG
37                           CHUONG THIEN
38                           BA XUYEN
39                           AN XUYEN
40                           CON SON
41                           PHU BON
42                           HAU NGHIA
43                           GO CONG
44                           BAC LIEU
45                           TRUNG PHON
46                           SA DEC
```

47	CHAU DOC
48	HAUT CHHLONG
49	PHU QUOC ISL
50	DMZ
51	BUFFER ZONE
60	MUD RIVER
61	DUMP TRUCK

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TABLE     MONTS                 02        03        F
*         MONTS - THREE CHAR MONTH CODE FOR OUTPUT CONVERSION
**       --------------                 -----------------
****      1.A. FILE - COGRA  B. FIELD -
     ********  FILE-COMBA      FIELDS-MDATE 2/3
01                           JAN
02                           FEB
03                           MAR
04                           APR
05                           MAY
06                           JUN
07                           JUL
08                           AUG
09                           SEP
10                           OCT
11                           NOV
12                           DEC
```

```
     JDATS IS A RETRIEVAL SUBROUTINE THAT ENABLES THE USER TO QUERY
     ON THE SYSTEM DATE FOR A TIME PERIOD RELATIVE TO THE DATE WHEN
     SELECTING RECORDS DURING RASP. BOTH THE DATA BASE DATE AND A
     FACTOR ARE SPECIFIED IN THE RASP STATEMENT. JDATS THEN ADJUSTS
     THE SYSTEM DATE BY THE NUMBER OF DAYS SPECIFIED IN THE FACTOR.
     THE ADJUSTED DATE IS THEN COMPARED WITH THE DATA BASE DATE TO
     DETERMINE WHETHER OR NOT THE RECORD QUALIFIES. VALID LIMITS
     FOR THE FACTOR VARY FROM -365 DAYS (CODED AS M365) TO +365 DAYS
     (CODED AS 365). EXCEEDING THESE LIMITS RESULTS IN AN ABEND WITH
     A USER 333 CODE. BOTH THE DATA BASE DATE AND THE ADJUSTED
     SYSTEM DATE ARE IN JULIAN FORMAT (YYDDD). IF A FACTOR OF ZERO
     (0 OR M0) IS SPECIFIED, THE CURRENT DATE IS RETURNED FOR THE
     COMPARISON. AN ARGUMENT OF FIVE (5) BYTES IS ASSUMED TO BE AN
     ACTUAL DATE AND IS RETURNED UNALTERED FOR COMPARISON.
---EXAMPLES----
        -1- IF XDATE =JDATS= EQ 0.
            ALL RECORDS WITH XDATE = CURRENT SYSTEM DATE QUALIFY.
        -2- IF XDATE =JDATS= EQ 68010.
            ALL RECORDS WITH XDATE = 68010 WILL QUALIFY.
        -3- IF XDATE =JDATS= GT M7 AND XDATE =JDATS= LT 1.
            WEEKLY SUMMARY---ALL RECORDS WITH XDATE WITHIN THE PAST
            SEVEN DAYS (ENDING TODAY) QUALIFY.
     ---NOTES---.
        -1- LEAP YEAR IS ACCOUNTED FOR THRU 1975.
        -2- EXCEEDING FACTOR LIMITS RESULTS IN ABEND (CODE = 333).
         SPACE
         TITLE '                                                JULIAN DAC
               TE CONVERSION SUBROUTINE'
         SPACE
JDATS    CSECT
         DS    0H
         USING *,15
         B     STAR0002
         DC    AL1(5)
         DC    CL5'JDATS'
STAR0002 STM   14,12,12(13)
         LR    14,13
         LA    13,SAVE
         ST    13,8(0,14)
         ST    14,4(0,13)
         DROP  15
         BALR  12,0
         USING *,12
         L     3,4(1)              REG3 POINTS TO PARAMETER LIST.
         LH    5,0(3)              REG5 HAS LENGTH OF ARGUMENT.
         LA    4,2(3)              REG4 HAS ADDRESS OF ARGUMENT.
         LR    6,4                 SAVE ADDRESS OF ARGUMENT.
         LR    3,4                 SAVE ADDRESS OF ARGUMENT.
         AR    3,5                 REG3 HAS ADDRESS OF FUNCTION AREA.
         USING FUNCTION,3
         LH    7,=H'5'             REG7 HAS MAX. ARGUMENT LENGTH.
         CR    5,7                 CHECK MAX. LENGTH.
         BC    4,FACTOR            BRANCH IF LESS THAN 5 BYTES.
```

```
         BC     2,ERROR              BRANCH IF MORE THAN 5 BYTES.
         MVC    OUTYR(5),2(4)        RETURN ACTUAL JULIAN DATE UNCHANGED.
         BC     15,EXITA
FACTOR   CLI    0(6),C'M'            CHECK FOR MINUS SIGN.
         BC     6,NOTMINUS           IF POSITIVE--SKIP ADJUSTMENTS.
         BCTR   5,0                  REDUCE LENGTH TO ACCOUNT FOR SIGN.
         LA     4,1(4)               STEP OVER SIGN POSITION.
NOTMINUS BCTR   5,0                  REDUCE LENGTH BY 1 FOR EXECUTE.
         TIME   DEC                  SYSTEM DATE IN REG1.
         EX     5,PACK               PACK ARGUMENT.
         CP     DAYS,=P'365'         CHECK MAX POSITIVE LIMIT.
         BC     2,ERROR              BRANCH IF EXCEEDED.
         CP     DAYS,=P'-365'        CHECK MAX NEGATIVE LIMIT.
         BC     4,ERROR              BRANCH IF EXCEEDED.
         ST     1,DECTIME            STORE SYSTEM DATE.
         UNPK   SYSDATE,DECTIME      CONVERT SYSTEM DATE TO ZONED DECIMAL.
         PACK   SYSYR,SYSDATE(2)     CONVERT YEAR TO PACKED DECIMAL.
         PACK   SYSDAYS,SYSDATE+2(3)     CONVERT DAYS TO PACKED DECIMAL.
         CLI    0(6),C'M'            CHECK FOR MINUS SIGN.
         BC     8,SUBTRACT           IF MINUS--GO TO SUBTRACTION ROUTINE.
         SPACE
*                ROUTINE FOR POSITIVE ADJUSTMENTS.
         SPACE
         AP     SYSDAYS,DAYS         ADD POSITIVE FACTOR.
         CP     SYSDAYS,=P'364'      IF RESULT GT 364--CHECK LEAP YEAR.
         BC     12,RETURN            IF EQUAL OR LT 364--NO MORE CHECKS.
         CP     SYSYR,=P'68'         1968 IS LEAP YEAR.
         BC     8,LEAPYEAR
         CP     SYSYR,=P'72'         1972 IS LEAP YEAR.
         BC     8,LEAPYEAR
         CP     SYSDAYS,=P'365'
         BC     8,RETURN             FACTOR OF 365--OK FOR NON-LEAPYEAR.
         SP     SYSDAYS,=P'365'      ADJUST DAYS FOR NON LEAP YEAR.
         BC     15,BUMPYEAR          GO AND ADJUST YEAR.
LEAPYEAR SP     SYSDAYS,=P'364'      ADJUST DAYS FOR LEAP YEAR.
BUMPYEAR AP     SYSYR,=P'1'          ADJUST YEAR TO NEXT.
         BC     15,RETURN
         SPACE
*                ROUTINE FOR NEGATIVE ADJUSTMENTS.
         SPACE
SUBTRACT SP     SYSDAYS,DAYS         SUBTRACT NEGATIVE FACTOR.
         BC     2,RETURN             BRANCH IF RESULT IS POSITIVE.
         BC     8,ZERO               BRANCH IF RESULT IS ZERO.
         CP     SYSYR,=P'68'         CKECK FOR LEAP YEAR.
         BC     8,LPYEAR
         CP     SYSYR,=P'72'         CHECK FOR LEAPYEAR.
         BC     8,LPYEAR
         AP     SYSDAYS,=P'365'      ADJUST DAYS TO POSITIVE-NON LEAPYEAR.
         BC     15,SUBONE
LPYEAR   AP     SYSDAYS,=P'364'      ADJUST DAYS TO POSITIVE-LEAPYEAR.
SUBONE   SP     SYSYR,=P'1'          ADJUST YEAR TO LAST.
         BC     15,RETURN
ZERO     CP     SYSYR,=P'68'
```


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```
         BC     8,ZAP364          LEAPYEARS HAVE 364 DAYS.
         CP     SYSYR,=P'72'
         BC     8,ZAP364          LEAPYEARS HAVE 364 DAYS.
         ZAP    SYSDAYS,=P'365'   NON LEAPYEARS HAVE 365 DAYS.
         BC     15,SUBONE
ZAP364   ZAP    SYSDAYS,=P'364'   LAST DAY OF LEAPYEAR.
         BC     15,SUBONE
RETURN   UNPK   OUTYR,SYSYR       CONVERT YEAR TO ZONED DECIMAL.
         UNPK   OUTDAYS,SYSDAYS   CONVERT DAYS TO ZONED DECIMAL.
EXITA    IC     15,=C'S'          SUCCESSFUL RETURN CODE.
EXIT     PACK   SYSDAYS,OUTDAYS
         PACK   SYSYR,OUTYR
         ZAP    EIGHT,SYSYR
         MP     EIGHT,=P'1000'
         AP     EIGHT,SYSDAYS
         CVB    9,EIGHT
         ST     9,OUT1
         MVC    OUT(4),OUT1
         L      13,4(0,13)
         LM     0,12,20(13)
         L      14,12(0,13)
         MVI    12(13),X'FF'      LAST PARAMETER RETURNED.
         BR     14                RETURN TO CALLER.
PACK     PACK   DAYS,0(0,4)       PACK ARGUMENT INTO DAYS.
ERROR    ABEND  333               LIMITS EXCEEDED--CANNOT CONVERT.
*-----------------------------------------------------------------------*
         DS     0D
EIGHT    DC     PL8'00000000'
         DS     0F
OUT1     DC     F'0'
SAVE     DS     18F
DECTIME  DS     CL4
DAYS     DC     PL2'00'
SYSYR    DC     PL2'00'
SYSDAYS  DC     PL2'00'
SYSDATE  DS     CL5
OUTYR    DS     CL2
OUTDAYS  DS     CL3
FUNCTION DSECT
OUT      DS     CL4
         END
```

FILE MAINTENANCE

A. FILE MAINTENANCE.

1. TO PROCESS DATA TRANSACTIONS AND UPDATE THE CONGA FILE REQUIRES THE USE OF THE FOLLOWING PROGRAMS.

PREPROCESSOR (CONGARAO)
FMS
POST-UPDATE RETRIEVAL (NG01R)

2. THE CONGA PREPROCESSOR CHECKS THE VALIDITY OF THE DATA FIELDS IN THE INPUT TRANSACTIONS. ERRORS FOUND IN DATA FIELDS ARE FLAGGED. ERRORS FOUND IN CONTROL FIELDS CAUSE THE TRANSACTION TO BE REJECTED. THE PREPROCESSOR ALSO CONVERTS LOCAL (SEA) TIME TO ZULU TIME. INDIVIDUAL SHIP UIC'S AND HULL NUMBERS ARE CHECKED AND MATCHED TO EACH SHIP USING A SHIPNAME TABLE. SPECIFIC TARGETS ARE IDENTIFIED USING A TARGET-CODE TABLE.

THE FILE MAINTENANCE LOGIC CHECKS THE TRANSACTION FOR CARD TYPE, AND RELATES DATA TO THE DATA BASE. EXISTING DATA CAN BE CHANGED OR DELETED AND NEW DATA CAN BE ADDED. THE FMS SORTS THE DATA BASE SEQUENTIALLY BY TIME. ERRORS FOUND BY THE PREPROCESSOR ARE FLAGGED AND THE TRANSACTIONS ARE REJECTED.

THE POST-UPDATE RETRIEVAL (NG01R) PROVIDES A RECORD DUMP OF RECORDS EFFECTED BY FMS FOR QUALITY CONTROL AND EDITING OF THE UPDATE RUN.

B. TRANSACTION FORMATS AND PROCESSING

1. THERE ARE THREE (3) TYPES OF TRANSACTIONS USED IN THE CONGA FILE. THEY ARE 'A', 'C', OR '*' IN CC 2. THERE IS A TRANSACTION CODE USED WITH EACH TRANSACTION TYPE. IN THE 'A' TYPE TRANSACTION YOU MAY HAVE AN 'A' TRANSACTION CODE IN CC 1 FOR ADDING INFORMATION, 'C' FOR CHANGING INFORMATION OR 'D' FOR DELETION OF INFORMATION.
THE SAME IS TRUE FOR THE 'C' TYPE TRANSACTIONS.
IN THE '*' TYPE TRANSACTIONS YOU MAY HAVE A 'D' OR 'S' TRANSACTION CODE IN CC 1. A 'D' WILL DELETE A COMPLETE RECORD. AN 'S' WILL CALCULATE STATISTICS ON THE CONGA DATA BASE.

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2. DESCRIBE EACH INPUT TRANSACTION BY USING THE FOLLOWING FORMAT

CARD TYPE 'A'

DATA FIELD	LEFT/RIGHT PACKED JUSTIFIED	CARD COLUMNS	ENTRY
	LEFT	1	MUST BE AN 'A','D' OR 'C'
'A'	LEFT	2	MUST BE AN 'A'
BLANK		3-22	
UTM	LEFT	23-30	MUST BE BLANK OR CC 23-24 ALPHABETIC CC 25-30 NUMERIC
ARCOD	RIGHT	31	MUST BE BLANK OR A NUMBER LESS THAN 5
PCODE	LEFT	32-33	MUST HAVE VALUE IF CC 1 IS 'A' THIS VALUE IS DEFINED IN THE PC-CODE OF THE DATA DIVISION. MAY BE BLANK IF CC 1 IS 'C'
SPOTS	LEFT	34	MUST BE BLANK OR CONTAIN 'N' 'G','A' OR 'S'
TGCOD	LEFT	35-36	MUST HAVE VALUE IF CC 1 IS 'A' THIS VALUE IS DEFINED IN THE TARGET-CODE OF THE DATA DIVISION. MAY BE BLANK IF CC 1 IS 'C'
DEDAF	LEFT	37-39	MUST BE BLANK, DES, OR DAM
DPKIA	RIGHT	40-41	MUST BE BLANK OR NUMERIC
DPWIA	RIGHT	42-43	MUST BE BLANK OR NUMERIC
DPMIA	RIGHT	44-45	MUST BE BLANK OR NUMERIC
WDI	LEFT	46	MUST BE BLANK OR CONTAIN 'C', 'M', 'S', 'A', 'U', 'N', OR 'T'
TCODE	LEFT	47	MUST BE BLANK, 'D', OR 'N'
NGSE	LEFT	48-49	MUST BE 'NG', OR 'SE' WHEN CC 1 IS AN 'A'. MAY BE BLANK WHEN CC 1 IS 'C'
BLANK		50-53	
YEAR	RIGHT	54-55	MUST BE NUMERIC
MONTH	RIGHT	56-57	MUST BE NUMER AND LESS THAN 13
DAY	LEFT	58-59	CALCULATED FROM START-DAY
START-DAY	RIGHT	60-61	MUST BE NUMER AND LESS THAN 32
START-TIME	RIGHT	62-65	MUST BE NUMERIC AND LESS THAN 2401
END-DAY	RIGHT	66-67	MUST BE NUMER AND LESS THAN 32
END-TIME	RIGHT	68-71	MUST BE NUMERIC AND LESS THAN 2401
UIC	LEFT	72-77	MUST ALWAYS HAVE VALUE. THIS VALUE IS DEFINED ON THE UIC-TABLE OF THE DATA DIVISION.
SER	RIGHT	78-80	MUST BE NUMERIC

CARD TYPE 'C'

DATA FIELD	LEFT/RIGHT PACKED JUSTIFIED	CARD COLUMNS	ENTRY
	LEFT	1	MUST BE AN 'A', 'D' OR 'C'
'C'	LEFT	2	MUST BE 'C'
PAR	RIGHT	3	MUST BE NUMERIC
CALEX-ORTYP	LEFT	4-12	MUST BE BLANK OR HAVE A VALUE DEFINED IN THE AMMO-TABLE OF THE DATA DIVISION
OTYEX	RIGHT	13-17	MUST BE NUMER IF CC 4-12 HAS A VALUE.
RANGE	RIGHT	18-20	MUST BE NUMER IF CC 4-12 HAS A VALUE.
NACFT	RIGHT	21-22	MAY BE BLANK OR NUMERIC
ACTYP	LEFT	23-28	MAY BE BLANK OR HAVE A VALUE DEFINED IN THE ACT P61 OF THE DATA DIVISION.
BLANK		29-34	
MLQTY	RIGHT	35-37	MUST BE BLANK OR NUMERIC
BLANK		38-40	
MLDDD	LEFT	41-43	MUST BE BLANK, DES OR DAM
EPKIA	RIGHT	44-46	MUST BE BLANK OR NUMERIC
BLANK		47-53	
RECORD ID		54-80	SAME AS RECORD ID FOR TYPE A CARD.

CARD TYPE '*'

DATA FIELD	LEFT/RIGHT PACKED JUSTIFIED	CARD COLUMNS	ENTRY
'*'	LEFT	1	MUST BE AN *
	LEFT	2	MUST BE D OR S
BLANK	LEFT	3-80	

C. FILE MAINTENANCE PROGRAMS.

1. NEXT ATTACHED IS A MACHINE-LISTING OF THE PREPROCESSOR PROGRAM. FOLLOWING THE PREPROCESSOR IS A MACHINE-LISTING OF THE FMS LOGIC STATEMENTS.

CONGA PREPROCESSOR (CONGARAO)
THE PROGRAM WILL ACCEPT THREE (3) TYPES OF CARDS, THE FIRST TYPE HAS AN ASTERISK (*) IN CC 1. THE REMAINDER OF THE CARD IS NOT CHECKED.
THE SECOND TYPE HAS AN 'A' IN CC 2 AND AN 'A','D', OR 'C' IN CC 1. THE FIELDS THAT EDITED ARE DESCRIBED UNDER CARD TYPE 'A' OF THE EDIT RULES. THE EDIT RULES ARE LOCATED IN THE TRANSACTION FORMATS AND PROCESSING SECTION OF THIS DOCUMENT.
THE THIRD TYPE HAS A 'C' IN CC 2 AND AN 'A','D', OR 'C' IN CC 1. THE FIELDS THAT EDITED ARE DESCRIBED IN THE EDIT RULES UNDER CARD TYPE 'C'. IF EITHER CC 1-2 OR THE RECORD-ID CC 54-80 FAIL ANY OF THE EDIT TESTS, AN IMAGE OF THE RECORD IS PRINTED INDICATING THE FIRST DETECTED ERROR WITH AN ASTERISKS (*) UNDER THE LEFTMOST CHARACTER IN THE FIELD. THESE RECORDS ARE NOT WRITTED ON THE OUTPUT TAPE.
TRANSACTIONS PASSING THE RECORD-ID TEST ARE FURTHER EDITED.
IF ANY OF THE REMAINING FIELDS FAIL ANY OF THE EDIT REQUIREMENTS, AN IMAGE OF THE RECORD IS PRINTED INDICATING EACH ERROR DETECTED WITH AN ASTERISK (*) UNDER THE LEFTMOST CHARACTER IN THE FIELD.
AFTER THE RECORD COMPLETES ALL THE EDIT TESTS, IT IS WRITTEN ON THE OUTPUT TAPE. THOSE RECORDS CONTAINING ERRORS OTHER THAN RECORD-ID ERRORS WILL BE UPDATED IN LATER PROCESSING.

```
        IDENTIFICATION DIVISION.
        PROGRAM-ID. 'CONGARAO'.
        ENVIRONMENT DIVISION.
        CONFIGURATION SECTION.
        SOURCE-COMPUTER. IBM-360 I65.
        OBJECT-COMPUTER. IBM-360 I65.
        INPUT-OUTPUT SECTION.
        FILE-CONTROL.
            SELECT FILE-IN ASSIGN TO 'SYSIN' UTILITY.
            SELECT FILE-OUT ASSIGN TO 'CONGAOUT' UTILITY.
            SELECT PRINT-FILE ASSIGN TO 'ERRMSG' UTILITY.
010010 DATA DIVISION.
010030 FILE SECTION.
010050 FD  FILE-IN
010070     LABEL RECORD IS OMITTED
010090     RECORDING MODE IS F
010130     RECORD CONTAINS 80 CHARACTERS
010150     DATA RECORDS ARE TYPEA-IN, TYPEC-IN.
012010 01  TYPEA-IN.
012030     02  TYPEA-DATA.
012050         03  TRANS-CODE          PICTURE IS X.
012070         03  CARD-TYPE           PICTURE IS X.
012090         03  OPNAM               PICTURE IS X(13).
012110         03  FCSUP               PICTURE IS X(7).
012130         03  UTM.
012150             04  COORD-A         PICTURE IS XX.
012170             04  COORD-N         PICTURE IS X(6).
012190         03  ARCOD               PICTURE IS X.
012210         03  PCODE               PICTURE IS XX.
012230         03  SPOTS               PICTURE IS X.
014010         03  TGCOD               PICTURE IS XX.
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014030          03  FRIEND-LOSS.
014050              04  DEDAF              PICTURE IS XXX.
014070              04  NPKIA              PICTURE IS XX.
014090              04  NPWIA              PICTURE IS XX.
014110              04  NPMIA              PICTURE IS XX.
014130              04  WDI                PICTURE IS X.
014150          03  TCODE                  PICTURE IS X.
014170          03  NGSE                   PICTURE IS AA.
014190          03  FILLER                 PICTURE IS X(4).
014210      02  RECORD-ID.
014230          03  DATE-ID.
016010              04  YEAR               PICTURE IS 99.
                    04  YEAR-DUMMY REDEFINES YEAR PICTURE XX.
016030              04  MONTH-DAY.
016050                  05  MONTH          PICTURE IS XX.
016060                  05 DUMMY-MONTH REDEFINES MONTH PICTURE 99.
016070                  05  DAY            PICTURE IS 99.
016090          03  START-ID.
016110              04  START-DAY          PICTURE IS 99.
                    04  DAY-DUMMY REDEFINES START-DAY  PICTURE XX.
016130              04  START-TIME         PICTURE IS XXXX.
016150          03  END-ID.
016170              04  END-DAY            PICTURE IS XX.
016190              04  END-TIME           PICTURE IS XXXX.
016210          03  UIC                    PICTURE IS X(6).
016230          03  SER                    PICTURE IS XXX.
018010 01   TYPEC-IN.
018030      02  TYPEC-DATA.
018050          03  FILLER                 PICTURE IS A.
018070          03  FILLER                 PICTURE IS A.
018090          03  PAR                    PICTURE IS X.
018110          03  AMMO.
018130              04  CALEX-ORTYP.
018150                  05  CALEX          PICTURE IS XXXX.
018170                  05  ORTYP          PICTURE IS XXXXX.
018190              04  QTYEX              PICTURE IS X(5).
018210              04  RANGE              PICTURE IS XXX.
018230          03  AIRCRAFT.
018250              04  NACFT              PICTURE IS XX.
018270              04  ACTYP6.
020010                  05  ACTYP5         PICTURE IS X(5).
020030                  05  ALPHCHK1       PICTURE IS X.
020050              04  ACTYP9 REDEFINES ACTYP6.
020070                  05  ACTYP4         PICTURE IS X(4).
020090                  05  ALPHCHK2       PICTURE IS X.
020110                  05  FILLER         PICTURE IS X.
020130              04  ACTYP8 REDEFINES ACTYP6.
020150                  05  ACTYP3         PICTURE IS XXX.
020170                  05  ALPHCHK3       PICTURE IS X.
020190                  05  FILLER         PICTURE IS XX.
022010              04  ACTYP7 REDEFINES ACTYP6.
022030                  05  ACTYP2         PICTURE IS XX.
022050                  05  ALPHCHK4       PICTURE IS X.
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022070                 05  FILLER        PICTURE IS XXX.
022090             04  TSORT             PICTURE IS XX.
022110             04  NSEXP             PICTURE IS XX.
022130         03  ENEMY-LOSSES.
022150             04  LCODE             PICTURE IS XX.
022170             04  MLQTY             PICTURE IS XXX.
022190             04  MLUNT             PICTURE IS XXX.
022210             04  MLDDD             PICTURE IS XXX.
022230             04  EPKIA             PICTURE IS XXX.
022250         03  FILLER                PICTURE IS X(34).
026010 FD  FILE-OUT
026030     LABEL RECORD IS OMITTED
026050     RECORDING MODE IS F
026090     RECORD CONTAINS 80  CHARACTERS
026110     DATA RECORD IS TYPEABC-OUT.
026130 01  TYPEABC-OUT.
026150     02 TYPEABC-OUT-F.
026170         03 OTRAN-CODE        PICTURE X.
026190         03 OTRAN-REST        PICTURE X(79).
032010 FD  PRINT-FILE
032030     LABEL RECORDS ARE OMITTED
032050     RECORDING MODE IS F
032090     RECORD CONTAINS 133 CHARACTERS
032110     DATA RECORD IS RECORD-OUT, ASTR-LINE, GOOD-TRANS-PRINT.
032130 01  RECORD-OUT.
032140     02  CHAR-CNTRL                PICTURE X.
032145     02  CARD-DATA                 PICTURE IS X(80).
032146     02  FILLER-1                  PICTURE IS X(15).
032150     02  ERR-MSG                   PICTURE IS X(21).
032170     02  FILLER-2                  PICTURE IS X(10).
032190     02  REC-SEQ                   PICTURE IS 9(6).
       01  ASTR-LINE.
           02  FILLER              PICTURE X.
           02  CHAR                PICTURE X  OCCURS 80.
           02  FILLER              PICTURE X(52).
       01  GOOD-TRANS-PRINT.
           02  FILLER          PICTURE X.
           02  TRANS-PRINT         PICTURE X(80).
           02  FILLER         PICTURE X(52).
100000 WORKING-STORAGE SECTION.
           77  ERR-1               PICTURE X(21)
                   VALUE 'FIELD NOT ALPHABETIC '.
           77  ERR-2               PICTURE X(21)
                   VALUE 'FIELD NOT NUMERIC    '.
           77  ERR-3               PICTURE X(21)
                   VALUE 'FIELD SHOULD BE BLANK'.
           77  ERR-4               PICTURE X(21)
                   VALUE 'FIELD IS BLANK       '.
           77  ERR-5               PICTURE X(21)
                   VALUE 'INVALID FIELD CODE   '.
           77  ERR-6               PICTURE X(21)
                   VALUE 'INVALID TABLE ENTRY  '.
           77  ERR-7               PICTURE X(21)
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                    VALUE 'RELATED FIELD ERROR  '.
            77  KOUNT  VALUE ZERO   PICTURE 99.
            77  LINE-COUNT  VALUE ZERO        PICTURE 99.
            77  REC-OUT-KNT  VALUE ZERO  PICTURE 9(6).
            77  REC-ERR-KNT  VALUE ZERO  PICTURE 9(6).
100009      77  YEAR-FLAG            PICTURE 9.
100010 01   RECORD-COUNT                  PICTURE IS 9(6)
100030          VALUE IS ZEROS.
100050 01   UIC-COUNT                     PICTURE IS 9(6).
100070 01   PC-COUNT                      PICTURE IS 9(3).
100090 01   TGCOD-COUNT                   PICTURE IS 9(3).
       01   LCODE-COUNT PICTURE IS 9(3).
100110 01   QUOTIENT                      PICTURE IS 99V99.
100130 01   INT-QUOT REDEFINES QUOTIENT.
100150      02  FILLER                    PICTURE IS 99.
100170      02  FRACTIONAL-PART           PICTURE IS 99.
100190 01   TYPEC-ADD-CHECK               PICTURE IS A.
100210 01   CHANGE-CODE                   PICTURE IS A.
100230 01   AMMO-TABLE-COUNT              PICTURE IS 99.
100250 01   ACTYP-COUNT                   PICTURE IS 999.
100270 01   MONTH-DAY-COUNTER             PICTURE IS 99.
100290 01   ERROR-TYPE                    PICTURE IS X.
102010 01   WORK-AREA.
102030      02  TYPEA-WORK.
102050          03  A-DATA-WORK           PICTURE IS X(49).
102070          03  A-FILLER              PICTURE IS X(4).
102090      02  TYPEB-WORK REDEFINES TYPEA-WORK.
102110          03  FILLER                PICTURE IS X.
102120          03  B-CODE                PICTURE IS X.
102130          03  B-DATA-WORK           PICTURE IS X(24).
102150          03  B-FILLER              PICTURE IS X(27).
102170      02  TYPEC-WORK REDEFINES TYPEA-WORK.
102190          03  C-DATA-WORK           PICTURE IS X(46).
102210          03  C-FILLER              PICTURE IS X(7).
102230      02  ID-WORK                   PICTURE IS X(27).
104000 01   SHIP-UIC-TABLE.
104010      02  FILLER                    PICTURE IS X(32)
104020          VALUE IS 'ABADAMS,G.F.      DDG    2N04668'.
104030      02  FILLER                    PICTURE IS X(32)
104040          VALUE IS 'ABAGERHOLM        DD   826N52126'.
104050      02  FILLER                    PICTURE IS X(32)
104060          VALUE IS 'ABANTELOPE        PG    86N12585'.
104070      02  FILLER                    PICTURE IS X(32)
104080          VALUE IS 'ABANDERSON,R.B.   DD   786N03886'.
104090      02  FILLER                    PICTURE IS X(32)
104100          VALUE IS 'ABANDROSCOGGIN    WHEC  68E11301'.
104110      02  FILLER                    PICTURE IS X(32)
104120          VALUE IS 'ABBADGER          DE  1071N54066'.
104130      02  FILLER                    PICTURE IS X(32)
104140          VALUE IS 'ABBARNEY          DDG    6N04672'.
104150      02  FILLER                    PICTURE IS X(32)
104160          VALUE IS 'ABBASILONE        DD   824N52124'.
104170      02  FILLER                    PICTURE IS X(32)
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104180          VALUE IS 'ABBAUSELL          DD   845N52145'.
104190     02   FILLER                   PICTURE IS X(32)
104200          VALUE IS 'ABBERING STRAIT    WHEC 382E20667'.
104210     02   FILLER                   PICTURE IS X(32)
104220          VALUE IS 'ABBERKELEY         DDG   15N04681'.
104230     02   FILLER                   PICTURE IS X(32)
104240          VALUE IS 'ABBIBB             WHEC  31E11101'.
104250     02   FILLER                   PICTURE IS X(32)
104260          VALUE IS 'ABBIGELOW          DD   942N52201'.
104270     02   FILLER                   PICTURE IS X(32)
104280          VALUE IS 'ABBLANDY           DD   943N52202'.
104290     02   FILLER                   PICTURE IS X(32)
104300          VALUE IS 'ABBORDELON         DD   881N52181'.
104310     02   FILLER                   PICTURE IS X(32)
104320          VALUE IS 'ABBRADLEY          DE  1041N54038'.
104330     02   FILLER                   PICTURE IS X(32)
104340          VALUE IS 'ABBRINKLEY BASS    DD   887N52187'.
104350     02   FILLER                   PICTURE IS X(32)
104360          VALUE IS 'ABBRISBANE         D     41N10002'.
104370     02   FILLER                   PICTURE IS X(32)
104380          VALUE IS 'ABBROWNSON         DD   868N52168'.
104390     02   FILLER                   PICTURE IS X(32)
104400          VALUE IS 'ABBUCHANAN         DDG   14N04680'.
104410     02   FILLER                   PICTURE IS X(32)
104420          VALUE IS 'ABBUCKLEY,D.J.     DD   808N03908'.
104430     02   FILLER                   PICTURE IS X(32)
104440          VALUE IS 'ABCAMPBELL         WHEC  32E11102'.
104450     02   FILLER                   PICTURE IS X(32)
104460          VALUE IS 'ABCARPENTER        DD   825N52125'.
104470     02   FILLER                   PICTURE IS X(32)
104480          VALUE IS 'ABCASTLE ROCK      WHEC 383E11205'.
104490     02   FILLER                   PICTURE IS X(32)
104500          VALUE IS 'ABCECIL,C.P.       DD   835N52135'.
104510     02   FILLER                   PICTURE IS X(32)
104520          VALUE IS 'ABCHANDLER,T.E.    DD   717N04317'.
104530     02   FILLER                   PICTURE IS X(32)
104540          VALUE IS 'ABCHARLES BERRY    DE  1035N54033'.
104550     02   FILLER                   PICTURE IS X(32)
104560          VALUE IS 'ABCHASE            WHEC 718E11404'.
104570     02   FILLER                   PICTURE IS X(32)
104580          VALUE IS 'ABCHEVALIER        DD   805N03905'.
104590     02   FILLER                   PICTURE IS X(32)
104600          VALUE IS 'ABCLARION RIVER    LFR  409N75409'.
104610     02   FILLER                   PICTURE IS X(32)
104620          VALUE IS 'ABCOCHRANE         DDG   21N04687'.
104630     02   FILLER                   PICTURE IS X(32)
104640          VALUE IS 'ABCONE             DD   866N52166'.
104650     02   FILLER                   PICTURE IS X(32)
104660          VALUE IS 'ABCOOK INLET       WHEC 384E11207'.
104670     02   FILLER                   PICTURE IS X(32)
104680          VALUE IS 'ABCORRY            DD   817N52117'.
104690     02   FILLER                   PICTURE IS X(32)
104700          VALUE IS 'ABCRAIG,J.R.       DD   885N52185'.
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104710     02  FILLER                        PICTURE IS X(32)
104720         VALUE IS 'ABCROCKET              PG    88N12601'.
104730     02  FILLER                        PICTURE IS X(32)
104740         VALUE IS 'ABDALLAS               WHEC 716E11402'.
104750     02  FILLER                        PICTURE IS X(32)
104760         VALUE IS 'ABDAMATO               DD   871N52171'.
104770     02  FILLER                        PICTURE IS X(32)
104780         VALUE IS 'ABDAVID,A.             DE  1050N54045'.
104790     02  FILLER                        PICTURE IS X(32)
104800         VALUE IS 'ABDAVIDSON             DE  1045N54041'.
104810     02  FILLER                        PICTURE IS X(32)
104820         VALUE IS 'ABDEHAVEN              DD   727N04327'.
104830     02  FILLER                        PICTURE IS X(32)
104840         VALUE IS 'ABDUANE                WHEC  33E11103'.
104850     02  FILLER                        PICTURE IS X(32)
104860         VALUE IS 'ABDUPONT               DD   941N52200'.
104870     02  FILLER                        PICTURE IS X(32)
104880         VALUE IS 'ABEDSON                DD   946N04662'.
104890     02  FILLER                        PICTURE IS X(32)
104900         VALUE IS 'ABEPPERSON             DD   719N04319'.
104910     02  FILLER                        PICTURE IS X(32)
104920         VALUE IS 'ABEVERSOLE             DD   789N03889'.
104930     02  FILLER                        PICTURE IS X(32)
104940         VALUE IS 'ABFECHTELER            DD   870N52170'.
104950     02  FILLER                        PICTURE IS X(32)
104960         VALUE IS 'ABFISKE                DD   842N52142'.
104970     02  FILLER                        PICTURE IS X(32)
104980         VALUE IS 'ABFORSTER              DFR  334N53334'.
104990     02  FILLER                        PICTURE IS X(32)
105000         VALUE IS 'ABFOX,M.C.             DD   829N52129'.
105010     02  FILLER                        PICTURE IS X(32)
105020         VALUE IS 'ABFRANCIS HAMMOND DE  1067N54062'.
105030     02  FILLER                        PICTURE IS X(32)
105040         VALUE IS 'ABFURSE                DD   882N52182'.
105050     02  FILLER                        PICTURE IS X(32)
105060         VALUE IS 'ABGALLUP               PG    85N12584'.
105070     02  FILLER                        PICTURE IS X(32)
105080         VALUE IS 'ABGREENE,E.A.          DD   711N04311'.
105090     02  FILLER                        PICTURE IS X(32)
105100         VALUE IS 'ABGRESHAM              WHEC 387E11210'.
105110     02  FILLER                        PICTURE IS X(32)
105120         VALUE IS 'ABGOLDSBOROUGH         DDG   20N04686'.
105130     02  FILLER                        PICTURE IS X(32)
105140         VALUE IS 'ABGURKE                DD   783N03883'.
105150     02  FILLER                        PICTURE IS X(32)
105160         VALUE IS 'ABHAMILTON             WHEC 715E11401'.
105170     02  FILLER                        PICTURE IS X(32)
105180         VALUE IS 'ABHAMNER               DD   718N04318'.
105190     02  FILLER                        PICTURE IS X(32)
105200         VALUE IS 'ABHANSON               DD   832N52132'.
105210     02  FILLER                        PICTURE IS X(32)
105220         VALUE IS 'ABHENDERSON            DD   785N03885'.
105230     02  FILLER                        PICTURE IS X(32)
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105240          VALUE IS 'ABHEPBURN          DE  1055N54050'.
105250     02   FILLER                   PICTURE IS X(32)
105260          VALUE IS 'ABHIGBEE           DD   806N03906'.
105270     02   FILLER                   PICTURE IS X(32)
105280          VALUE IS 'ABHOEL             DDG   13N04679'.
105290     02   FILLER                   PICTURE IS X(32)
105300          VALUE IS 'ABHOLDER           DD   819N52119'.
105310     02   FILLER                   PICTURE IS X(32)
105320          VALUE IS 'ABHOLLISTER        DD   788N03888'.
105330     02   FILLER                   PICTURE IS X(32)
105340          VALUE IS 'ABHULL             DD   945N04661'.
105350     02   FILLER                   PICTURE IS X(32)
105360          VALUE IS 'ABINGHAM           WHEC  35E11104'.
105370     02   FILLER                   PICTURE IS X(32)
105380          VALUE IS 'ABISBELL,A.J.      DD   869N52169'.
105390     02   FILLER                   PICTURE IS X(32)
105400          VALUE IS 'ABJOHN PAUL JONES DDG   32N52192'.
105410     02   FILLER                   PICTURE IS X(32)
105420          VALUE IS 'ABJOHNSTON         DD   821N52121'.
105430     02   FILLER                   PICTURE IS X(32)
105440          VALUE IS 'ABJOSEPH STRAUSS  DDG   16N04682'.
105450     02   FILLER                   PICTURE IS X(32)
105460          VALUE IS 'ABJOHN S MCCAIN   DDG   36N52228'.
105470     02   FILLER                   PICTURE IS X(32)
105480          VALUE IS 'ABKEPPLER          DD   765N03865'.
105490     02   FILLER                   PICTURE IS X(32)
105500          VALUE IS 'ABKLAMATH          WHEC  66E11304'.
105510     02   FILLER                   PICTURE IS X(32)
105520          VALUE IS 'ABKNOX             DE  1052N54047'.
105530     02   FILLER                   PICTURE IS X(32)
105540          VALUE IS 'ABKYES,J.E.        DD   787N03887'.
105550     02   FILLER                   PICTURE IS X(32)
105560          VALUE IS 'ABKRETCHMER        DER  329N03029'.
105570     02   FILLER                   PICTURE IS X(32)
105580          VALUE IS 'ABKRAUS,R.E.       DD   849N52149'.
105590     02   FILLER                   PICTURE IS X(32)
105600          VALUE IS 'ABLEARY            DD   879N52179'.
105610     02   FILLER                   PICTURE IS X(32)
105620          VALUE IS 'ABLANG             DE  1060N54055'.
105630     02   FILLER                   PICTURE IS X(32)
105640          VALUE IS 'ABLARSON,E.F.      DD   830N52130'.
105650     02   FILLER                   PICTURE IS X(32)
105660          VALUE IS 'ABLLOYD THOMAS     DD   764N03864'.
105670     02   FILLER                   PICTURE IS X(32)
105680          VALUE IS 'ABLOCKWOOD         DE  1064N54059'.
105690     02   FILLER                   PICTURE IS X(32)
105700          VALUE IS 'ABMANLEY           DD   940N52199'.
105710     02   FILLER                   PICTURE IS X(32)
105720          VALUE IS 'ABMAHAN            DLG   11N52236'.
105730     02   FILLER                   PICTURE IS X(32)
105740          VALUE IS 'ABMELLON           WHEC 717E11403'.
105750     02   FILLER                   PICTURE IS X(32)
105760          VALUE IS 'ABMENDOTA          WHEC  69E11305'.
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105770     02  FILLER                    PICTURE IS X(32)
105780         VALUE IS 'ABMORTON           DD   948N04664'.
105790     02  FILLER                    PICTURE IS X(32)
105800         VALUE IS 'ABMCKEAN           DD   784N03884'.
105810     02  FILLER                    PICTURE IS X(32)
105820         VALUE IS 'ABMCCORMICK,L.     DDG    8N04674'.
105830     02  FILLER                    PICTURE IS X(32)
105840         VALUE IS 'ABMACKENZIE,G.K.   DD   836N52136'.
105850     02  FILLER                    PICTURE IS X(32)
105860         VALUE IS 'ABMULLINNIX        DD   944N52203'.
105870     02  FILLER                    PICTURE IS X(32)
105880         VALUE IS 'ABMCCARD,R.H.      DD   822N52122'.
105890     02  FILLER                    PICTURE IS X(32)
105900         VALUE IS 'ABMCCAFFERY        DD   860N5260'.
105910     02  FILLER                    PICTURE IS X(32)
105920         VALUE IS 'ABMINNETONKA       WHEC  67E11306'.
105930     02  FILLER                    PICTURE IS X(32)
105940         VALUE IS 'ABMASON,L.F.       DD   825N52152'.
105950     02  FILLER                    PICTURE IS X(32)
105960         VALUE IS 'ABMEREDITH         DD   890N52190'.
105970     02  FILLER                    PICTURE IS X(32)
105980         VALUE IS 'ABNEWPORT NEWS     CA   148N03648'.
105990     02  FILLER                    PICTURE IS X(32)
106000         VALUE IS 'ABNOA              DD   841N52141'.
106010     02  FILLER                    PICTURE IS X(32)
106020         VALUE IS 'ABNEW              DD   818N52118'.
106030     02  FILLER                    PICTURE IS X(32)
106040         VALUE IS 'ABOBRIEN           DD   725N04325'.
106050     02  FILLER                    PICTURE IS X(32)
106060         VALUE IS 'ABOHARE            DD   887N52189'.
106070     02  FILLER                    PICTURE IS X(32)
106080         VALUE IS 'ABOWASCO           WHEC  39E11307'.
106090     02  FILLER                    PICTURE IS X(32)
106100         VALUE IS 'ABORLECK           DD   886N52186'.
106110     02  FILLER                    PICTURE IS X(32)
106120         VALUE IS 'ABOZBOURN          DD   846N52146'.
106130     02  FILLER                    PICTURE IS X(32)
106140         VALUE IS 'ABOUELLET          DE  1077N54072'.
106150     02  FILLER                    PICTURE IS X(32)
106160         VALUE IS 'ABOCALLAHAN        DE  1051N54046'.
106170     02  FILLER                    PICTURE IS X(32)
106180         VALUE IS 'ABOKLAHOMA CITY    CLG    5N03591'.
106190     02  FILLER                    PICTURE IS X(32)
106200         VALUE IS 'ABOWENS,J.C.       DD   776N03876'.
106210     02  FILLER                    PICTURE IS X(32)
106220         VALUE IS 'ABPOWER            DD   839N52139'.
106230     02  FILLER                    PICTURE IS X(32)
106240         VALUE IS 'ABPARSONS          DDG   33N04665'.
106250     02  FILLER                    PICTURE IS X(32)
106260         VALUE IS 'ABPERRY            DD   844N52144'.
106270     02  FILLER                    PICTURE IS X(32)
106280         VALUE IS 'ABPONTCHARTRAIN    WHEC  70E11308'.
106290     02  FILLER                    PICTURE IS X(32)
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106300          VALUE IS 'ABPROVIDENCE      CLG    6N03582'.
106310     02   FILLER                    PICTURE IS X(32)
106320          VALUE IS 'ABPERRY,N.K.      DD   883N52183'.
106310     02   FILLER                    PICTURE IS X(32)
106320          VALUE IS 'ABGLENNON         DD   840N52140'.
106330     02   FILLER                    PICTURE IS X(32)
106340          VALUE IS 'ABPARKS,F.B.      DD   884N52184'.
106350     02   FILLER                    PICTURE IS X(32)
106360          VALUE IS 'ABPURVIS,H.       DD   709N04309'.
106370     02   FILLER                    PICTURE IS X(32)
106380          VALUE IS 'ABROBISON         DDG   12N04678'.
106390     02   FILLER                    PICTURE IS X(32)
106400          VALUE IS 'ABRICH            DD   820N52120'.
106410     02   FILLER                    PICTURE IS X(32)
106420          VALUE IS 'ABRUSH            WHEC 723E11409'.
106430     02   FILLER                    PICTURE IS X(32)
106440          VALUE IS 'ABROWAN           DD   782N03882'.
106450     02   FILLER                    PICTURE IS X(32)
106460          VALUE IS 'ABROGERS          DD   876N52176'.
106470     02   FILLER                    PICTURE IS X(32)
106480          VALUE IS 'ABROARK           DE  1053N54048'.
106490     02   FILLER                    PICTURE IS X(32)
106500          VALUE IS 'ABR.S. EDWARDS    DD   950N04666'.
106510     02   FILLER                    PICTURE IS X(32)
106520          VALUE IS 'ABROBERT L WILSON DD   847N52147'.
106530     02   FILLER                    PICTURE IS X(32)
106540          VALUE IS 'ABRATHBURNE       DE  1057N54052'.
106550     02   FILLER                    PICTURE IS X(32)
106560          VALUE IS 'ABRUPERTUS        DD   851N52151'.
106570     02   FILLER                    PICTURE IS X(32)
106580          VALUE IS 'ABSEBAGO          WHEC  42E11309'.
106590     02   FILLER                    PICTURE IS X(32)
106600          VALUE IS 'ABSPENCER         WHEC  36E11105'.
106610     02   FILLER                    PICTURE IS X(32)
106620          VALUE IS 'ABSTRONG          DD   758N03858'.
106630     02   FILLER  PICTURE X(32)
106640          VALUE IS 'ABSHELTON         DD   790N03890'.
106650     02   FILLER  PICTURE X(32)
106660          VALUE IS 'ABSOMERS          DDG   34N04663'.
106670     02   FILLER  PICTURE X(32)
106680          VALUE IS 'ABSELLERS         DDG   11N04677'.
106690     02   FILLER  PICTURE X(32)
106700          VALUE IS 'ABSAMPLE          DE  1048N54043'.
106710     02   FILLER  PICTURE X(32)
106712          VALUE IS 'ABSARSFIELD       DD   837N52137'.
106715     02   FILLER                    PICTURE IS X(32)
106720          VALUE IS 'ABSHERMAN         WHEC 720E11406'.
106730     02   FILLER                    PICTURE IS X(32)
106740          VALUE IS 'ABST FRANCIS RIVERLFR  525N75525'.
106750     02   FILLER                    PICTURE IS X(32)
106760          VALUE IS 'ABSTEINAKER       DD   863N52163'.
106770     02   FILLER                    PICTURE IS X(32)
106780          VALUE IS 'ABSOUTHERLAND     DD   743N03843'.
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106790     02  FILLER                    PICTURE IS X(32)
106800         VALUE IS 'ABSTICKELL          DD   888N52188'.
106810     02  FILLER                    PICTURE IS X(32)
106820         VALUE IS 'ABSTODDERT,B.       DDG   22N04688'.
106830     02  FILLER                    PICTURE IS X(32)
106840         VALUE IS 'ABSTRIBLING         DD   867N52167'.
106850     02  FILLER                    PICTURE IS X(32)
106860         VALUE IS 'ABTAUSSIG           DD   746N03846'.
106870     02  FILLER                    PICTURE IS X(32)
106880         VALUE IS 'ABTANEY             WHEC  37E11106'.
106890     02  FILLER                    PICTURE IS X(32)
106900         VALUE IS 'ABTOWERS            DDG    9N04675'.
106910     02  FILLER                    PICTURE IS X(32)
106920         VALUE IS 'ABTERRELLCNTY       LST 1157N58157'.
106930     02  FILLER                    PICTURE IS X(32)
106940         VALUE IS 'ABTUCKER,J.W.       DD   875N52175'.
106950     02  FILLER                    PICTURE IS X(32)
106960         VALUE IS 'ABVOGELESANG        DD   862N52162'.
106970     02  FILLER                    PICTURE IS X(32)
106980         VALUE IS 'ABVERNON CNTY       LST 1161N58161'.
106990     02  FILLER                    PICTURE IS X(32)
107000         VALUE IS 'ABWADDELL           DDG   24N04961'.
107010     02  FILLER                    PICTURE IS X(32)
107020         VALUE IS 'ABWINDHAM CNTY      LST 1170N58170'.
107030     02  FILLER                    PICTURE IS X(32)
107040         VALUE IS 'ABWINONA            WHEC  65E11312'.
107050     02  FILLER                    PICTURE IS X(32)
107060         VALUE IS 'ABWILTSIE           DD   716N04316'.
107070     02  FILLER                    PICTURE IS X(32)
107080         VALUE IS 'ABWADDELL           DDG   24N04971'.
107090     02  FILLER                    PICTURE IS X(32)
107100         VALUE IS 'ABWHIPPLE           DE  1062N54057'.
107110     02  FILLER                    PICTURE IS X(32)
107120         VALUE IS 'ABWASHTENAW CNTY    LST 1166N58166'.
107130     02  FILLER                    PICTURE IS X(32)
107140         VALUE IS 'ABWASHOE CNTY       LST 1165N58165'.
107150     02  FILLER                    PICTURE IS X(32)
107160         VALUE IS 'ABWINNEBAGO         WHEC  40E11311'.
107170     02  FILLER                    PICTURE IS X(32)
107180         VALUE IS 'ABWHITE RIVER       LFR  536N75536'.
107190     02  FILLER                    PICTURE IS X(32)
107200         VALUE IS 'ABWHITFIELD CNTY    LST 1169N58169'.
107210     02  FILLER                    PICTURE IS X(32)
107220         VALUE IS 'ABWACHUSETT         WHEC  44E11310'.
107230     02  FILLER                    PICTURE IS X(32)
107240         VALUE IS 'ABWARRINGTON        DD   843N52143'.
107250     02  FILLER                    PICTURE IS X(32)
107260         VALUE IS 'ABWILSON,H.B.       DDG    7N04673'.
107270     02  FILLER                    PICTURE IS X(32)
107280         VALUE IS 'ABWARE,C.H.         DD   865N52165'.
107290     02  FILLER                    PICTURE IS X(32)
107300         VALUE IS 'ABWESTCHESTER CNTYLST 1167N58167'.
107310     02  FILLER                    PICTURE IS X(32)
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107320          VALUE IS 'ABYAKUTAT          WHEC 380E11218'.
107330      02  FILLER                    PICTURE IS X(32)
107340          VALUE IS 'AB77.1.1                   NA6791'.
107350      02  FILLER                    PICTURE IS X(32)
107360          VALUE IS 'AB77.1.2                   NA6792'.
107370      02  FILLER                    PICTURE IS X(64)
107380          VALUE IS SPACES.
107390 01   NAME-NR-REDF REDEFINES SHIP-UIC-TABLE.
107400      02  SHIP-UIC-TABLE-REDEF OCCURS 167.
170160          03  FILLER                PICTURE IS XX.
170170          03  SHIP-NAME-NR-TABLE    PICTURE IS X(24).
170190          03  UIC-TABLE             PICTURE IS X(6).
172010 01   ACTYP-TABLE.
172030      02  FILLER                    PICTURE IS X(42)
172050          VALUE IS 'A-1          A-3   A-4   A-6   A-7   AC-47 '.
172070      02  FILLER                    PICTURE IS X(42)
172090          VALUE IS 'AC-119AC-130B-26  B-52  B-57  B-66  F-100 '.
172110      02  FILLER                    PICTURE IS X(42)
172130          VALUE IS 'F-102 F-104 F-105 F-111 F-4   F-5   F-8   '.
172150      02  FILLER                    PICTURE IS X(42)
172170          VALUE IS 'FC-47 A-37  TA-4  T-28  TF-9  TF-102AP-2  '.
172190      02  FILLER                    PICTURE IS X(42)
172210          VALUE IS 'AH-1  CH-3  CH-21 CH-34 CH-37 CH-46 CH-47 '.
174010      02  FILLER                    PICTURE IS X(42)
174030          VALUE IS 'CH-53 CH-54 H-43  HH-3  HH-43 HH-53 OH-6  '.
174050      02  FILLER                    PICTURE IS X(42)
174070          VALUE IS 'OH-13 OH-23 OH-58 SH-3  UH-1  UH-2  UH-34 '.
174090      02  FILLER                    PICTURE IS X(42)
174110          VALUE IS 'O-1   O-2   OV-1  OV-10 CV-2  TO-1  E-1   '.
174130      02  FILLER                    PICTURE IS X(42)
174150          VALUE IS 'E-2   EA-1  EA-3  SP-2  EA-6  EC-47 EC-121'.
174170      02  FILLER                    PICTURE IS X(42)
174190          VALUE IS 'EF-10 OP-2  P-3   RA-3  RA-5  RB-26 RB-57 '.
174210      02  FILLER                    PICTURE IS X(42)
174230          VALUE IS 'RB-66 JC-47 RC-47 RC-130RC-135RF-101RF-4  '.
176010      02  FILLER                    PICTURE IS X(42)
176030          VALUE IS 'RF-8  RT-28 U-2   C-1   C-2   C-45  C-47  '.
176050      02  FILLER                    PICTURE IS X(42)
176070          VALUE IS 'C-54  C-117 C-118 C-119 C-123 C-124 C-130 '.
176090      02  FILLER                    PICTURE IS X(42)
176110          VALUE IS 'C-141 EKA-3 HU-16 HC-47 HC-54 HC-130KA-3  '.
176130      02  FILLER                    PICTURE IS X(42)
176150          VALUE IS 'KA-4  KA-6  KC-130KC-135      SC-47 UC-123'.
176170      02  FILLER                    PICTURE IS X(42)
176190          VALUE IS 'US-2  U-1   U-3   U-6   U-8   U-10  U-17  '.
176210      02  FILLER                    PICTURE IS X(42)
176230          VALUE IS 'U-21  T-39  VC-123VC-47 VC-54 C-7   L-19  '.
178010      02  FILLER                    PICTURE IS X(42)
178030          VALUE IS 'S-2   OV-21       UH-23 UH-21 E-3   O-3   '.
178050      02  FILLER                    PICTURE IS X(42)
178070          VALUE IS 'EB-66 EB-66BEB-66CEB-66EPC-6  YO-3  ENDTAB'.
178090 01   AIR-TYPE-6 REDEFINES ACTYP-TABLE.
178110      02  ACTYP61                   PICTURE IS X(6) OCCURS 133.
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182010 01  AMMO-CAL-TYPE.
182030     02  FILLER                    PICTURE IS X(9)
182050         VALUE IS '16/5HE   '.
182070     02  FILLER                    PICTURE IS X(9)
182090         VALUE IS '16/5HC   '.
182110     02  FILLER                    PICTURE IS X(9)
182130         VALUE IS '16/5AP   '.
182150     02  FILLER                    PICTURE IS X(9)
182170         VALUE IS '8/55HE   '.
           02  FILLER                    PICTURE IS X(9)
182170         VALUE IS '8/55HEPD '.
           02  FILLER                    PICTURE IS X(9)
182170         VALUE IS '8/55HCPD '.
182190     02  FILLER                    PICTURE IS X(9)
182210         VALUE IS '8/55HC   '.
184010     02  FILLER                    PICTURE IS X(9)
184030         VALUE IS '8/55AP   '.
184050     02  FILLER                    PICTURE IS X(9)
184070         VALUE IS '6/47HC   '.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '6/47HECVT'.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/38HECVT'.
184090     02  FILLER                    PICTURE IS X(9)
184110         VALUE IS '6/47AP   '.
184130     02  FILLER                    PICTURE IS X(9)
184150         VALUE IS '5/54HE   '.
184170     02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/54HECVT'.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/54VTNSD'.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/54HEPD '.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/38HCPD '.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/38VTSD '.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/38HEPD '.
           02  FILLER                    PICTURE IS X(9)
184190         VALUE IS '5/54HC   '.
184210     02  FILLER                    PICTURE IS X(9)
184211         VALUE IS '5/54AAC  '.
184230     02  FILLER                    PICTURE IS X(9)
184231         VALUE IS '5/54ACC  '.
186010     02  FILLER                    PICTURE IS X(9)
186030         VALUE IS '5/54VT   '.
186050     02  FILLER                    PICTURE IS X(9)
186070         VALUE IS '5/54ILLUM'.
186090     02  FILLER                    PICTURE IS X(9)
186110         VALUE IS '5/54COM  '.
186111     02  FILLER                    PICTURE IS X(9)
186112         VALUE IS '5/54RAP  '.
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186130     02  FILLER                    PICTURE IS X(9)
186150         VALUE IS '5/54WP   '.
186170     02  FILLER                    PICTURE IS X(9)
186190         VALUE IS '5/54W    '.
186210     02  FILLER                    PICTURE IS X(9)
186230         VALUE IS '5/38HEPD '.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/38VTNSD'.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/38HCVT '.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/38HE   '.
188010     02  FILLER                    PICTURE IS X(9)
188030         VALUE IS '5/38HCPDF'.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '5/38HC   '.
188050     02  FILLER                    PICTURE IS X(9)
188070         VALUE IS '5/38AAC  '.
188090     02  FILLER                    PICTURE IS X(9)
188110         VALUE IS '5/38VT   '.
188130     02  FILLER                    PICTURE IS X(9)
188150         VALUE IS '5/38ILLUM'.
188170     02  FILLER                    PICTURE IS X(9)
188190         VALUE IS '5/38COM  '.
188210     02  FILLER                    PICTURE IS X(9)
188230         VALUE IS '5/38WP   '.
190010     02  FILLER                    PICTURE IS X(9)
190030         VALUE IS '5/38CVT  '.
190050     02  FILLER                    PICTURE IS X(9)
190070         VALUE IS '5/38RAP  '.
190090     02  FILLER                    PICTURE IS X(9)
190110         VALUE IS '5/38W    '.
190130     02  FILLER                    PICTURE IS X(9)
190150         VALUE IS '3/50HE   '.
190170     02  FILLER                    PICTURE IS X(9)
190190         VALUE IS '3/50HC   '.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '4/38HE   '.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '4/38WP   '.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '4/38ILLUM'.
           02  FILLER                    PICTURE IS X(9)
               VALUE IS '4/38VT   '.
190210     02  FILLER                    PICTURE IS X(9)
190230         VALUE IS '3/50AP   '.
192010     02  FILLER                    PICTURE IS X(9)
192030         VALUE IS '3/50VT   '.
192040     02  FILLER                    PICTURE IS X(9)
192045         VALUE IS '3/50AAC '.
192050     02  FILLER                    PICTURE IS X(9)
192070         VALUE IS '5/SSMK-7 '.
192090     02  FILLER                    PICTURE IS X(9)
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192110          VALUE IS '5/SSMK-10'.
192130      02  FILLER                     PICTURE IS X(9)
192150          VALUE IS '5/SSMK-12'.
192170      02  FILLER                     PICTURE IS X(9)
192190          VALUE IS '81MMW    '.
194010      02  FILLER                     PICTURE IS X(9)
194030          VALUE IS '40MM     '.
194074      02  FILLER                     PICTURE IS X(9)
194075          VALUE IS '5/54CVT  '.
194078      02  FILLER                     PICTURE IS X(9)
194079          VALUE IS '6/47HE   '.
194082      02  FILLER                     PICTURE IS X(9)
194083          VALUE IS '6/47WP   '.
194085      02  FILLER                     PICTURE IS X(9)
194086          VALUE IS '50CA     '.
194088      02  FILLER                     PICTURE IS X(9)
194089          VALUE IS '81MM     '.
            02  FILLER                     PICTURE IS X(9)
                VALUE IS '54NSD    '.
194090      02  FILLER                     PICTURE IS X(9)
194095          VALUE IS SPACES.
194096      02  FILLER                     PICTURE IS X(9)
194097          VALUE IS '5/54HCVT '.
194100 01   CAL-TYPE-TABLE REDEFINES AMMO-CAL-TYPE.
            02  AMMO-TABLE                 PICTURE IS X(9) OCCURS 62.
196010 01   TARGET-TABLE.
196030      02  FILLER                     PICTURE IS X(40)
196050          VALUE IS 'A AAABACADAEAFAGAIAJAKALAMANAOAPAQARASAT'.
196060      02  FILLER                     PICTURE IS X(26)
196065          VALUE IS 'AUAVAWAXAYAZB BABBBCBDBEBF'.
196070      02  FILLER                     PICTURE IS X(34)
196090          VALUE IS        'C D E F G H I J K L M N O P P1P2Q '.
196110      02  FILLER                     PICTURE IS X(20)
196130          VALUE IS 'R S T U V W X Y Z ZZ'.
196150 01   TARGET-REDF REDEFINES TARGET-TABLE.
196170      02  TARGET-CODE                PICTURE IS XX OCCURS 57.
198010 01   PC-TABLE.
198030      02  FILLER                     PICTURE IS X(40)
198050          VALUE IS '0001020304050607080910111213141516171819'.
198070      02  FILLER                     PICTURE IS X(40)
198090          VALUE IS '2021222324252627282930313233343536373839'.
198110      02  FILLER                     PICTURE IS X(30)
198130          VALUE IS '404142434445464748495051606199'.
198150 01   PC-REDF REDEFINES PC-TABLE.
198170      02  PC-CODE                    PICTURE IS XX OCCURS 55.
200010 01   DATE-FILLER.
200030      02  FILLER                     PICTURE IS X(24)
200050          VALUE IS '013102280331043005310630'.
200070      02  FILLER                     PICTURE IS X(24)
200090          VALUE IS '073108310930103111301231'.
200110 01   DATE-REDEF REDEFINES DATE-FILLER.
200130      02  MONTH-DAY-TABLE      OCCURS 12 TIMES.
                03  MONTH-TABLE            PICTURE XX.
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                03  DAY-TABLE                PICTURE XX.
500010 PROCEDURE DIVISION.
500030 OPEN-ALL.
500050     OPEN INPUT FILE-IN.
500070     OPEN OUTPUT FILE-OUT.
500090     OPEN OUTPUT PRINT-FILE.
       SKIP-PAGE.
           MOVE SPACES TO RECORD-OUT.
           MOVE 1 TO CHAR-CNTRL.
           WRITE  RECORD-OUT AFTER ADVANCING 0 LINES.
           MOVE SPACE TO CHAR-CNTRL.
           MOVE ZEROS TO LINE-COUNT.
500110 READ-ALL.
500130     MOVE SPACES TO WORK-AREA.
500150     READ FILE-IN AT END GO TO CLOSE-ALL.
500170     ADD 1 TO RECORD-COUNT.
500220     MOVE 'A' TO ERROR-TYPE.
500230     GO TO TEST-ID.
502010 TEST-ID.
502020     IF TRANS-CODE IS EQUAL TO '*' GO TO ASTER-WRITE.
           IF YEAR       IS NOT NUMERIC MOVE 54 TO KOUNT
             MOVE ERR-2 TO ERR-MSG, GO TO ID-ERROR.
           IF MONTH      IS NOT NUMERIC MOVE 56 TO KOUNT
             MOVE ERR-2 TO ERR-MSG, GO TO ID-ERROR.
           IF MONTH NOT LESS 13 MOVE 56 TO KOUNT
             MOVE ERR-5 TO ERR-MSG, GO TO ID-ERROR.
           IF START-DAY  IS NOT NUMERIC MOVE 60 TO KOUNT
             MOVE ERR-2 TO ERR-MSG, GO TO ID-ERROR.
           IF START-DAY NOT LESS 32 MOVE 60 TO KOUNT
             MOVE ERR-5 TO ERR-MSG, GO TO ID-ERROR.
           IF START-TIME IS NOT NUMERIC MOVE 62 TO KOUNT
             MOVE ERR-2 TO ERR-MSG, GO TO ID-ERROR.
           IF START-TIME NOT LESS 2401 MOVE 62 TO KOUNT
             MOVE ERR-5 TO ERR-MSG, GO TO ID-ERROR.
           IF END-DAY    IS NOT NUMERIC MOVE 66 TO KOUNT
             MOVE ERR-2 TO ERR-MSG, GO TO ID-ERROR.
           IF END-DAY NOT LESS 32 MOVE 66 TO KOUNT
             MOVE ERR-5 TO ERR-MSG, GO TO ID-ERROR.
           IF END-TIME   IS NOT NUMERIC MOVE 68 TO KOUNT
             MOVE ERR-2 TO ERR-MSG, GO TO ID-ERROR.
           IF END-TIME NOT LESS 2401 MOVE 68 TO KOUNT
             MOVE ERR-5 TO ERR-MSG, GO TO ID-ERROR.
504090     PERFORM UIC-CHECK THRU UIC-EXIT.
504110     IF SHIP-NAME-NR-TABLE (UIC-COUNT)  IS EQUAL TO SPACES
           MOVE 72 TO KOUNT, MOVE ERR-6 TO ERR-MSG, GO TO ID-ERROR.
           IF SER        IS NOT NUMERIC MOVE 78 TO KOUNT
             MOVE ERR-2 TO ERR-MSG, GO TO ID-ERROR.
506010 TRANS-CODE-A-CHECK.
506030     IF TRANS-CODE IN TYPEA-IN IS NOT EQUAL TO 'A'
506050     GO TO TRANS-CODE-S-CHECK.
506090     GO TO TYPE-RECORD-TEST.
506110 TRANS-CODE-S-CHECK.
506130     IF TRANS-CODE IN TYPEA-IN IS NOT EQUAL TO 'C'
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506150      GO TO TRANS-CODE-D-CHECK.
506190      GO TO TYPE-RECORD-TEST.
508010 TRANS-CODE-D-CHECK.
508030      IF TRANS-CODE IS NOT EQUAL TO 'D'
            MOVE  1 TO KOUNT, MOVE ERR-5 TO ERR-MSG, GO TO ID-ERROR.
510010 TYPE-RECORD-TEST.
510030      IF CARD-TYPE IN TYPEA-IN IS EQUAL TO 'A' GO TO TYPEA-CHECK.
510050      IF CARD-TYPE IN TYPEA-IN IS EQUAL TO 'C' GO TO TYPEC-CHECK.
            MOVE 2 TO KOUNT, MOVE ERR-5 TO ERR-MSG.
            GO TO ID-ERROR.
512010 TYPEA-CHECK.
            PERFORM TRANS-CODE-CONVERT THRU TRANS-CODE-EXIT.
            PERFORM DAY-TIME-CONVERT THRU DAY-TIME-EXIT.
512030      IF TRANS-CODE IS EQUAL TO 'N' GO TO TYPEA-ADD.
512070      IF TRANS-CODE IS EQUAL TO 'D' GO TO TYPEA-DELETE.
512110      IF TRANS-CODE IS EQUAL TO 'S' GO TO TYPEA-CHANGE.
514010 TYPEA-ADD.
514020      IF UTM IS EQUAL TO SPACES GO TO TA-A1.
514025      IF COORD-A IS NUMERIC GO TO TA-A3.
514030      IF COORD-A IS NOT ALPHABETIC
            MOVE 23 TO KOUNT MOVE ERR-1 TO ERR-MSG PERFORM A-DATA-ERROR.
514050      IF COORD-N IS NOT NUMERIC
            MOVE 25 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM A-DATA-ERROR.
514060 TA-A1.
514090      PERFORM ARCOD-CHECK THRU ARCOD-EXIT.
514100 TA-A2.
514110      IF PCODE IS EQUAL TO SPACES
            MOVE 32 TO KOUNT MOVE ERR-4 TO ERR-MSG PERFORM A-DATA-ERROR
514130      ELSE PERFORM PCODE-CHECK THRU PCODE-EXIT.
514135 TA-A3.
514150      IF SPOTS IS EQUAL TO SPACES GO TO TA-A4.
514170      PERFORM SPOTS-CHECK THRU SPOTS-EXIT.
514180 TA-A4.
514190      IF TGCOD IS EQUAL TO SPACE
            MOVE 35 TO KOUNT MOVE ERR-4 TO ERR-MSG PERFORM A-DATA-ERROR
514210      ELSE PERFORM TGCOD-CHECK THRU TGCOD-EXIT.
516010      PERFORM DEDAF-CHECK THRU DEDAF-EXIT.
516030      PERFORM NPKIA-CHECK THRU NPKIA-EXIT.
516050      PERFORM NPWIA-CHECK THRU NPWIA-EXIT.
516070      PERFORM NPMIA-CHECK THRU NPMIA-EXIT.
516090      PERFORM WDI-CHECK THRU WDI-EXIT.
516130      PERFORM TCODE-CHECK THRU TCODE-EXIT.
516150      PERFORM NGSE-CHECK THRU NGSE-EXIT.
516190      PERFORM BUILD-A-RECORD THRU BUILD-A-RECORD-EXIT.
516210      PERFORM BUILD-B-RECORD THRU BUILD-B-RECORD-EXIT.
516230      GO TO READ-ALL.
518010 TYPEA-DELETE.
518050      PERFORM BUILD-A-RECORD THRU BUILD-A-RECORD-EXIT.
518070      GO TO READ-ALL.
520010 TYPEA-CHANGE.
520030      MOVE 'B' TO CHANGE-CODE.
520050      IF UTM IS EQUAL TO SPACES GO TO TC-1.
520055      IF COORD-A IS NUMERIC GO TO TC-2.
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520070      IF COORD-A IS NOT ALPHABETIC
            MOVE 23 TO KOUNT MOVE ERR-1 TO ERR-MSG PERFORM A-DATA-ERROR.
520090      IF COORD-N IS NOT NUMERIC
            MOVE 25 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM A-DATA-ERROR.
520110      MOVE 'C' TO CHANGE-CODE.
520130 TC-1.
520170      IF ARCOD IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
520180      PERFORM ARCOD-CHECK THRU ARCOD-EXIT.
520181      IF PCODE IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
520190      PERFORM PCODE-CHECK THRU PCODE-EXIT.
520195 TC-2.
520250      IF SPOTS IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
520251      PERFORM SPOTS-CHECK THRU SPOTS-EXIT.
522030      IF TGCOD IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
522040      PERFORM TGCOD-CHECK THRU TGCOD-EXIT.
522070      IF DEDAF IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
522080      PERFORM DEDAF-CHECK THRU DEDAF-EXIT.
522110      IF NPKIA IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
522120      PERFORM NPKIA-CHECK THRU NPKIA-EXIT.
522150      IF NPWIA IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
522160      PERFORM NPWIA-CHECK THRU NPWIA-EXIT.
522170      IF NPMIA IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
522180      PERFORM NPMIA-CHECK THRU NPMIA-EXIT.
522181      IF WDI   IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
            PERFORM WDI-CHECK THRU WDI-EXIT.
522190      IF TCODE IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
522200      PERFORM TCODE-CHECK THRU TCODE-EXIT.
524030      IF NGSF IS NOT EQUAL TO SPACE MOVE 'C' TO CHANGE-CODE
524040      PERFORM NGSF-CHECK THRU NGSF-EXIT.
524050      IF CHANGE-CODE IS EQUAL TO 'B'
            MOVE  1 TO KOUNT MOVE ERR-7 TO ERR-MSG PERFORM A-DATA-ERROR.
524090      PERFORM BUILD-A-RECORD THRU BUILD-A-RECORD-EXIT.
524110      GO TO READ-ALL.
526010 TYPEC-CHECK.
            PERFORM TRANS-CODE-CONVERT THRU TRANS-CODE-EXIT.
            PERFORM DAY-TIME-CONVERT THRU DAY-TIME-EXIT.
526050      IF TRANS-CODE IS EQUAL TO 'D' GO TO TYPEC-DELETE.
528010 TYPEC-ADD-CHANGE.
528020      MOVE 'N' TO TYPEC-ADD-CHECK.
528030      IF PAR IS NOT NUMERIC
            MOVE  3 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM C-DATA-ERROR.
528050      IF AMMO IS EQUAL TO SPACES GO TO TYPEC-ADD-1.
528070      MOVE 'A' TO TYPEC-ADD-CHECK.
            IF CALEX-ORTYP NOT EQUAL SPACES
528130      PERFORM CALEX-CHECK THRU CALEX-EXIT.
            IF QTYEX EQUAL SPACES OR QTYEX IS NUMERIC NEXT SENTENCE ELSE
            MOVE 13 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM C-DATA-ERROR.
            IF RANGE EQUAL SPACES GO TO TYPEC-ADD-1.
528210      IF RANGE IS NOT NUMERIC
009390      MOVE 18 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM C-DATA-ERROR.
009400 TYPEC-ADD-1.
009410      IF AIRCRAFT IS EQUAL TO SPACES GO TO TYPEC-ADD-2.
009420      MOVE 'A' TO TYPEC-ADD-CHECK.
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009430     IF NACFT IS EQUAL TO SPACES GO TO TC-A1.
009440     IF NACFT IS NOT NUMERIC
009450     MOVE 21 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM C-DATA-ERROR.
009460 TC-A1.
009470     IF ACTYP6 NOT EQUAL SPACES
009480     PERFORM ACTYP-CHECK THRU ACTYP-EXIT.
009490     IF LCODE NOT EQUAL SPACES MOVE 'A' TO TYPEC-ADD-CHECK
009500     PERFORM LCODE-CHECK THRU LCODE-EXIT.
009510 TYPEC-ADD-2.
009520     IF MLQTY IS EQUAL TO SPACES GO TO TYPEC-ADD-3.
009530     MOVE 'A' TO TYPEC-ADD-CHECK.
009540     IF MLQTY IS NOT NUMERIC
009550     MOVE 35 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM C-DATA-ERROR.
009560 TYPEC-ADD-3.
009570     IF MLDDD NOT EQUAL SPACES
009580     PERFORM DEDAF-C-CHECK THRU DEDAF-C-EXIT
009590     MOVE 'A' TO TYPEC-ADD-CHECK.
009600     IF EPKIA IS EQUAL TO SPACES GO TO TYPEC-ADD-4.
009610     MOVE 'A' TO TYPEC-ADD-CHECK.
009620     IF EPKIA IS NOT NUMERIC
009630     MOVE 44 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM C-DATA-ERROR.
009640 TYPEC-ADD-4.
009650     IF TYPEC-ADD-CHECK IS NOT EQUAL TO 'A'
009660     MOVE  1 TO KOUNT MOVE ERR-7 TO ERR-MSG PERFORM C-DATA-ERROR.
009670     PERFORM BUILD-C-RECORD THRU BUILD-C-RECORD-EXIT.
009680     GO TO READ-ALL.
009690 TYPEC-DELETE.
009700     PERFORM BUILD-C-RECORD THRU BUILD-C-RECORD-EXIT.
009710     GO TO READ-ALL.
009720 ARCOD-CHECK.
009730     IF ARCOD IS EQUAL TO SPACES GO TO ARCOD-EXIT.
009740     IF ARCOD IS NOT NUMERIC
009750     MOVE 31 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM A-DATA-ERROR
009760       GO TO ARCOD-EXIT.
009770     IF ARCOD IS NOT LESS THAN 5
009780     MOVE 31 TO KOUNT MOVE ERR-5 TO ERR-MSG PERFORM A-DATA-ERROR.
009790 ARCOD-EXIT.
009800     EXIT.
009810 PCODE-CHECK.
009820     MOVE ZEROS TO PC-COUNT.
009830 PCODE-ADD-ONE.
009840     ADD 1 TO PC-COUNT.
009850     IF PCODE IS EQUAL TO PC-CODE (PC-COUNT) GO TO PCODE-EXIT.
009860     IF PC-CODE (PC-COUNT) IS EQUAL TO 99
009870     MOVE 32 TO KOUNT MOVE ERR-6 TO ERR-MSG PERFORM A-DATA-ERROR
009880       GO TO PCODE-EXIT.
009890     GO TO PCODE-ADD-ONE.
009900 PCODE-EXIT.
009910     EXIT.
009920 SPOTS-CHECK.
009930     IF SPOTS IS EQUAL TO SPACE GO TO SPOTS-EXIT.
009940     IF SPOTS IS EQUAL TO 'N' GO TO SPOTS-EXIT.
009950     IF SPOTS IS EQUAL TO 'G' GO TO SPOTS-EXIT.
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009960      IF SPOTS IS EQUAL TO 'A' GO TO SPOTS-EXIT.
009970      IF SPOTS IS EQUAL TO 'S' GO TO SPOTS-EXIT.
009980      MOVE 34 TO KOUNT MOVE ERR-5 TO ERR-MSG PERFORM A-DATA-ERROR.
009990 SPOTS-EXIT.
010000      EXIT.
010010 TGCOD-CHECK.
010020      MOVE ZEROS TO TGCOD-COUNT.
010030 TGCOD-ADD-ONE.
010040      ADD 1 TO TGCOD-COUNT.
010050      IF TGCOD IS EQUAL TO TARGET-CODE (TGCOD-COUNT)
010060      GO TO TGCOD-EXIT.
010070      IF TARGET-CODE (TGCOD-COUNT) IS EQUAL TO 'ZZ'
010080      MOVE 35 TO KOUNT MOVE ERR-6 TO ERR-MSG
010090      PERFORM A-DATA-ERROR  GO TO TGCOD-EXIT.
010100      GO TO TGCOD-ADD-ONE.
010110 TGCOD-EXIT.
010120      EXIT.
010130 LCODE-CHECK.
010140      MOVE ZEROS TO LCODE-COUNT.
010150 LCODE-ADD-ONE.
010160      ADD 1 TO LCODE-COUNT.
010170      IF LCODE EQUAL TARGET-CODE (LCODE-COUNT) GO TO LCODE-EXIT.
010180      IF TARGET-CODE (LCODE-COUNT) NOT EQUAL 'ZZ'
010190      GO TO LCODE-ADD-ONE.
010200      MOVE 33 TO KOUNT MOVE ERR-6 TO ERR-MSG.
010210 LCODE-EXIT.
010220      EXIT.
010230 DEDAF-CHECK.
010240      IF DEDAF IS EQUAL TO SPACES GO TO DEDAF-EXIT.
010250      IF DEDAF IS EQUAL TO 'DES' GO TO DEDAF-EXIT.
010260      IF DEDAF IS EQUAL TO 'DAM' GO TO DEDAF-EXIT.
010270      IF DEDAF IS EQUAL TO 'CAP' GO TO DEDAF-EXIT.
010280      IF DEDAF IS EQUAL TO 'SEC' GO TO DEDAF-EXIT.
010290      MOVE 37 TO KOUNT MOVE ERR-5 TO ERR-MSG PERFORM A-DATA-ERROR.
010300 DEDAF-EXIT.
010310      EXIT.
010320 NPKIA-CHECK.
010330      IF NPKIA IS EQUAL TO SPACE GO TO NPKIA-EXIT.
010340      IF NPKIA IS NOT NUMERIC
010350      MOVE 40 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM A-DATA-ERROR.
010360 NPKIA-EXIT. EXIT.
010370 NPWIA-CHECK.
010380      IF NPWIA IS EQUAL TO SPACE GO TO NPWIA-EXIT.
010390      IF NPWIA IS NOT NUMERIC
010400      MOVE 42 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM A-DATA-ERROR.
010410 NPWIA-EXIT. EXIT.
010420 NPMIA-CHECK.
010430      IF NPMIA IS EQUAL TO SPACE GO TO NPMIA-EXIT.
010440      IF NPMIA IS NOT NUMERIC
010450      MOVE 44 TO KOUNT MOVE ERR-2 TO ERR-MSG PERFORM A-DATA-ERROR.
010460 NPMIA-EXIT. EXIT.
010470 WDI-CHECK.
010480      IF WDI IS EQUAL TO SPACE GO TO WDI-EXIT.
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010490      IF WDI IS EQUAL TO 'C' GO TO WDI-EXIT.
010500      IF WDI IS EQUAL TO 'M' GO TO WDI-EXIT.
010510      IF WDI IS EQUAL TO 'S' GO TO WDI-EXIT.
010520      IF WDI IS EQUAL TO 'A' GO TO WDI-EXIT.
010530      IF WDI IS EQUAL TO 'U' GO TO WDI-EXIT.
010540      IF WDI IS EQUAL TO 'N' GO TO WDI-EXIT.
010550      IF WDI IS EQUAL TO 'T' GO TO WDI-EXIT.
010560      MOVE 46 TO KOUNT MOVE ERR-5 TO ERR-MSG PERFORM A-DATA-ERROR.
010570 WDI-EXIT.
010580      EXIT.
010590 TCODE-CHECK.
010600      IF TCODE IS EQUAL TO SPACE GO TO TCODE-EXIT.
010610      IF TCODE IS EQUAL TO 'D' GO TO TCODE-EXIT.
010620      IF TCODE IS EQUAL TO 'N' GO TO TCODE-EXIT.
010630      MOVE 47 TO KOUNT MOVE ERR-5 TO ERR-MSG PERFORM A-DATA-ERROR.
010640 TCODE-EXIT.
010650      EXIT.
010660 NGSE-CHECK.
010670      IF NGSE IS EQUAL TO 'NG' GO TO NGSE-EXIT.
010680      IF NGSE IS EQUAL TO 'SE' GO TO NGSE-EXIT.
010690      MOVE 48 TO KOUNT MOVE ERR-5 TO ERR-MSG PERFORM A-DATA-ERROR.
010700 NGSE-EXIT.
010710      EXIT.
010720 CALEX-CHECK.
010730      MOVE ZEROS TO AMMO-TABLE-COUNT.
010740 CALEX-ADD-ONE.
010750      ADD 1 TO AMMO-TABLE-COUNT.
010760      IF CALEX-ORTYP IS EQUAL TO AMMO-TABLE (AMMO-TABLE-COUNT)
010770      GO TO CALEX-EXIT.
010780      IF AMMO-TABLE (AMMO-TABLE-COUNT) IS EQUAL TO SPACES
010790      MOVE  4 TO KOUNT MOVE ERR-6 TO ERR-MSG
010800      PERFORM C-DATA-ERROR, GO TO CALEX-EXIT.
010810      GO TO CALEX-ADD-ONE.
010820 CALEX-EXIT.
010830      EXIT.
010840 ACTYP-CHECK.
010850      MOVE ZEROS TO ACTYP-COUNT.
010860 ACTYP6-CHECK.
010870      ADD 1 TO ACTYP-COUNT.
010880      IF ACTYP6 IS EQUAL TO ACTYP61 (ACTYP-COUNT)
010890      GO TO ACTYP-EXIT.
010900      IF ACTYP61 (ACTYP-COUNT) IS EQUAL TO 'ENDTAB'
010910      MOVE 23 TO KOUNT MOVE ERR-6 TO ERR-MSG
010920      PERFORM C-DATA-ERROR, GO TO ACTYP-EXIT.
010930      GO TO ACTYP6-CHECK.
010940 ACTYP-EXIT.
010950      EXIT.
010960 UIC-CHECK.
010970      MOVE ZEROS TO UIC-COUNT.
010980 UIC-ADD-ONE.
010990      ADD 1 TO UIC-COUNT.
011000      IF UIC-TABLE (UIC-COUNT) IS EQUAL TO SPACES
011010      GO TO UIC-EXIT.
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011020      IF UIC IS EQUAL TO UIC-TABLE (UIC-COUNT)
011030      GO TO UIC-EXIT.
011040      GO TO UIC-ADD-ONE.
011050 UIC-EXIT.
011060      EXIT.
011070 DAY-TIME-CONVERT.
011080      IF START-TIME IS NOT LESS THAN 1600 GO TO DATE-TIME-ADD.
011090      MOVE START-DAY TO DAY.
011100      GO TO DAY-TIME-EXIT.
011110 DATE-TIME-ADD.
011120      ADD 1    START-DAY GIVING DAY.
011140      PERFORM MONTH-DAY-CHECK THRU MONTH-DAY-EXIT.
011150 DAY-TIME-EXIT.
011151      EXIT.
011160 MONTH-DAY-CHECK.
011170      MOVE ZEROS TO MONTH-DAY-COUNTER.
011180 CHECK-MONTH.
011190      ADD 1 TO MONTH-DAY-COUNTER.
011200      IF MONTH NOT EQUAL MONTH-TABLE (MONTH-DAY-COUNTER)
011210        GO TO CHECK-MONTH.
011220 CHECK-DAY.
011230      IF DAY GREATER DAY-TABLE (MONTH-DAY-COUNTER)
011240        GO TO NEXT-MONTH.
011250      GO TO MONTH-DAY-EXIT.
011260 NEXT-MONTH.
011261      MOVE  0  TO YEAR-FLAG.
011270      MOVE 01 TO DAY.
011271      ADD 1 TO DUMMY-MONTH.
011272      IF MONTH GREATER THAN 12 MOVE 9 TO YEAR-FLAG.
011273      IF YEAR-FLAG IS NOT EQUAL 9 GO TO MONTH-DAY-EXIT.
011274      MOVE 01 TO MONTH.
011275      ADD 1 TO YEAR.
011276 MONTH-DAY-EXIT.
011278      EXIT.
011279 CHANGE-REASON.
011290      NOTE  * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
011291      ABOVE SUB-ROUTINE MODIFIED BY B313,
011292      ON 26 APRIL 1971 TO CORRECT EOM INCREMENTATION,
011293      TO FIRST DAY OF NEXT MONTH.
011300 BUILD-A-RECORD.
011310      MOVE RECORD-ID TO ID-WORK.
011320      MOVE TYPEA-DATA TO A-DATA-WORK.
011330      MOVE SPACES TO A-FILLER.
011340      PERFORM ALL-TAPE-WRITE THRU ALL-TAPE-WRITE-EXIT.
011350      IF ERROR-TYPE NOT EQUAL 'C'
011360      PERFORM ALL-TRANS-PRINT THRU ALL-TRANS-EXIT.
011370 BUILD-A-RECORD-EXIT.
011380      EXIT.
011390 BUILD-B-RECORD.
011400      MOVE RECORD-ID TO ID-WORK.
011410      MOVE 'B' TO B-CODE.
011420      MOVE SHIP-NAME-NR-TABLE (UIC-COUNT) TO B-DATA-WORK.
011430      MOVE SPACES TO B-FILLER.
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011440      PERFORM ALL-TAPE-WRITE THRU ALL-TAPE-WRITE-EXIT.
011450      IF ERROR-TYPE NOT EQUAL 'C'
011460      PERFORM ALL-TRANS-PRINT THRU ALL-TRANS-EXIT.
011470 BUILD-B-RECORD-EXIT.
011480      EXIT.
011490 BUILD-C-RECORD.
011500      MOVE RECORD-ID TO ID-WORK.
011510      MOVE TYPEC-DATA TO C-DATA-WORK.
011520      MOVE SPACES TO C-FILLER.
011530      PERFORM ALL-TAPE-WRITE THRU ALL-TAPE-WRITE-EXIT.
011540      IF ERROR-TYPE NOT EQUAL 'C'
011550      PERFORM ALL-TRANS-PRINT THRU ALL-TRANS-EXIT.
011560 BUILD-C-RECORD-EXIT.
011570      EXIT.
011580 ALL-TAPE-WRITE.
011590      MOVE SPACES TO TYPEABC-OUT.
011600      MOVE WORK-AREA TO TYPEABC-OUT-F.
011610      WRITE TYPEABC-OUT.
011620      ADD 1 TO REC-OUT-KNT.
011630 ALL-TAPE-WRITE-EXIT.
011640      EXIT.
011650 DEDAF-C-CHECK.
011660      IF MLDDD IS EQUAL TO 'DES' GO TO DEDAF-C-EXIT.
011670      IF MLDDD IS EQUAL TO 'DAM' GO TO DEDAF-C-EXIT.
011680      IF MLDDD EQUAL 'SEC' GO TO DEDAF-C-EXIT.
011690      IF MLDDD EQUAL 'CAP' GO TO DEDAF-C-EXIT.
011700      MOVE 41 TO KOUNT MOVE ERR-5 TO ERR-MSG PERFORM C-DATA-ERROR.
011710 DEDAF-C-EXIT,
011720      EXIT,
011730 ERROR-PRINT,
011740      MOVE TYPEA-IN TO CARD-DATA.
011750      MOVE SPACES TO FILLER-1, FILLER-2.
011760      MOVE RECORD-COUNT TO REC-SEQ.
011770      WRITE RECORD-OUT AFTER ADVANCING 2 LINES.
011780      MOVE SPACES TO ASTR-LINE.
011790      MOVE '*' TO CHAR (KOUNT).
011800      WRITE ASTR-LINE AFTER ADVANCING 1 LINES.
011810      ADD 1 TO REC-ERR-KNT.
011820      ADD 03 TO LINE-COUNT.
011830      IF LINE-COUNT GREATER 54 PERFORM SKIP-PAGE.
       ERROR-PRINT-EXIT. EXIT.
       GET-NEXT-RECORD.
900090      GO TO READ-ALL.
902010 ID-ERROR.
902050      GO TO ERROR-PRINT.
904070 A-DATA-ERROR.
904080      MOVE 'C' TO ERROR-TYPE.
904110      PERFORM ERROR-PRINT THRU ERROR-PRINT-EXIT.
904130 C-DATA-ERROR.
904140      MOVE 'C' TO ERROR-TYPE.
            PERFORM ERROR-PRINT THRU ERROR-PRINT-EXIT.
906010 ASTER-WRITE.
906030      MOVE TYPEA-IN TO WORK-AREA.
```

```
            PERFORM ALL-TAPE-WRITE THRU ALL-TAPE-WRITE-EXIT.
            GO TO READ-ALL.
910010 TRANS-CODE-CONVERT.
910030      IF TRANS-CODE IS EQUAL TO 'A' MOVE 'N' TO TRANS-CODE.
910050      IF TRANS-CODE IS EQUAL TO 'C' MOVE 'S' TO TRANS-CODE.
910070 TRANS-CODE-EXIT.
910090      EXIT.
       ALL-TRANS-PRINT.
            MOVE SPACES TO GOOD-TRANS-PRINT.
            MOVE WORK-AREA TO TRANS-PRINT.
            WRITE GOOD-TRANS-PRINT AFTER ADVANCING 2 LINES.
            ADD 02 TO LINE-COUNT.
            IF LINE-COUNT GREATER 56 PERFORM SKIP-PAGE.
       ALL-TRANS-EXIT. EXIT.
950010 CLOSE-ALL.
            PERFORM SKIP-PAGE.
950030      CLOSE FILE-IN.
950050      CLOSE FILE-OUT.
950130      CLOSE PRINT-FILE.
            DISPLAY ' INPUT RECORDS  ', RECORD-COUNT.
            DISPLAY ' OUTPUT RECORDS ', REC-OUT-KNT.
            DISPLAY ' ERROR RECORDS  ', REC-ERR-KNT.
            DISPLAY ' END OF JOB'.
950150      STOP RUN.
```


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THE FOLLOWING STATEMENT WILL BUILD A NEW RECORD CONTAINING FIXED SET INFORMATION.

THE FOLLOWING LOGIC STATEMENT WILL PROCESS THE 'AA' TRANSACTION TYPE.

```
T0080     STARTCONGA    CONGO     NA      DS
T0080     STARTCONGA    CONGO     SA      DS
T0080     STARTCONGA    CONGO     NA      ASP
TRANS     FIELD0001     0001 2    NA
CARDT     FIELD0002     0001 3    NA
OPNAM     FIELD0003     0013 0    NA
FCSUP     FIELD0016     0007 0    NA
LATLONG   FIELD0023     0011 0    NA
COORD     FIELD0023     0008 0    NA
ARCOD     FIELD0031     0001 0    NA
PCODE     FIELD0032     0002 0    NA
SPOTS     FIELD0034     0001 0    NA
TGCOD     FIELD0035     0002 0    NA
DEDAF     FIELD0037     0003 0    NA
NPKIA     FIELD0040     0002 0    NA
NPWIA     FIELD0042     0002 0    NA
NPMIA     FIELD0044     0002 0    NA
WDI       FIELD0046     0001 0    NA
TCODE     FIELD0047     0001 0    NA
OPCOD     FIELD0048     0002 0    NA
RCTRL     FIELD0054     0027 1    NA
          POOL
          CON   W150/350,2
          BLQ   SEC
          CLR   W1/500
          MNU   2,W350/350
          BRA   FIRST
SEC       CLR   W1/303
FIRST     MAL   $RCTRL,W250/276
          BNR   START
          COA   $OPCOD,'SE'
          BNE   NAVAL
          COA   '0',$COORD
          BLT   CUTM
          LNK   CONV
          COA   W218/225,COARD
          BNE   CONT
          BRA   DUPE
CUTM      COA   $COORD,COARD
          BNE   CONT
DUPE      MAL   'DUPE',W300/303
          MAL   'DUPLICATE RECORD ID',W1/30
PRT       MAL   'A',W40/40
          MAL   T2/80,W41/119
          PRT   W1/120
          PCH   W40/119
          BNR   DEL
```

```
          HLT
DEL       DDR
          HLT
NAVAL     COA   $TGCOD,TGCOD
          BNE   CONT
          BEQ   DUPE
START     ADD   1,W480/484,W480/484
CONT      SDT   UDATE
          COA   '0',$COORD
          BLT   MUTM
          BPO   MLAT
          LNK   CONV
MLAT      MAL   W218/225,COARD
          MAL   ' ',ARCOD
          MAL   '  ',PCODE
          BRA   MSPOT
MUTM      MAL   $COORD,COARD
          MAL   $ARCOD,ARCOD
          MAL   $PCODE,PCODE
MSPOT     MAL   $SPOTS,SPOTS
          MAL   $OPNAM,OPNAM
          MAL   $FCSUP,FCSUP
          MAL   $TGCOD,TGCOD
          MAL   $DEDAF,DEDAF
          MNU   $NPKIA,NPKIA
          MNU   $NPWIA,NPWIA
          MNU   $NPMIA,NPMIA
          MAL   $WDI,WDI
          MAL   $ICODE,ICODE
          MAL   $OPCOD,OPCOD
          HLT
CONV      CLR   W201/225
          MAL   $LATLONG,W201/211
          MAL   '08',W216/217
          GEN   W201/217,GEOCON,I,W218/225
          BNV   ERR1
          SPO
          RET
ERR1      CLR   W1/120
          MAL   'INVALID LATLONG-REC NOT BUILT',W1/30
          BRA   PRT
          END
```

THE FOLLOWING LOGIC STATEMENT WILL CHANGE ANY FIELD VALUE IN AN EXISTING FIXED SET.

THE FOLLOWING LOGIC STATEMENT WILL PROCESS THE 'CA' TRANSACTION TYPE.

```
T0080     STARTCONGA    CONGO      SA        ASP
TRANS     FIELD0001     0001 2     SA
CARDT     FIELD0002     0001 3     SA
OPNAM     FIELD0003     0013 0     SA
FCSUP     FIELD0016     0007 0     SA
LATLONG   FIELD0023     0011 0     SA
COORD     FIELD0023     0008 0     SA
ARCOD     FIELD0031     0001 0     SA
PCODE     FIELD0032     0002 0     SA
SPOTS     FIELD0034     0001 0     SA
TGCOD     FIELD0035     0002 0     SA
DEDAF     FIELD0037     0003 0     SA
NPKIA     FIELD0040     0002 0     SA
NPWIA     FIELD0042     0002 0     SA
NPMIA     FIELD0044     0002 0     SA
WDI       FIELD0046     0001 0     SA
TCODE     FIELD0047     0001 0     SA
OPCOD     FIELD0048     0002 0     SA
RCTRL     FIELD0054     0027 1     SA
          POOL
          CON   W350/350,2
          BEQ   SEC
          CLR   W1/500
          MNU   2,W350/350
          BRA   FIRST
SEC       CLR   W1/249
FIRST     BNR   ERR1
          COA   $RCTRL,W250/276
          BNE   START
          COA   W300/303,'DUPE'
          BEQ   ERR2
START     SDT   UDATE
          COA   '0',$COORD
          BLT   MUTM
          CLR   W201/225
          MAL   $LATLONG,W201/211
          MAL   '08',W216/217
          GEN   W201/217,GEOCON,I,W218/225
          BNV   ERR3
          MAL   W218/225,COARD
          MAL   ' ',ARCOD
          MAL   '  ',PCODE
          BRA   MSPOT
MUTM      MAC   $COORD,COARD
          MAC   $ARCOD,ARCOD
          MAC   $PCODE,PCODE
MSPOT     MAC   $SPOTS,SPOTS
```

```
          MAC   $OPNAM,OPNAM
          MAC   $FCSUP,FCSUP
          MAC   $TGCOD,TGCOD
          MAC   $DEDAF,DEDAF
          MNC   $NPKIA,NPKIA
          MNC   $NPWIA,NPWIA
          MNC   $NPMIA,NPMIA
          MAC   $WDI,WDI
          MAC   $TCODE,TCODE
          MAC   $UPCOD,OPCOD
          HLT
ERR1      MAL   'CHANGE CARD FOUND NO MATCH',W1/30
          LNK   ROUTE
          DDR
          HLT
ERR2      MAL   'PRIOR AA CARD WAS REJECTED',W1/30
          LNK   ROUTE
          HLT
ERR3      MAL   'INVALID LATLONG-REC NOT CHG',W1/30
          LNK   ROUTE
          HLT
ROUTE     MAL   T1/80,W40/119
          MAL   'C',W40/40
          PRT   W1/120
          PCH   W40/119
          RET
          HLT
          END
```

THE FOLLOWING LOGIC STATEMENT WILL DELETE NON-CONTROL FIELDS IN THE FIXED SET OR DELETE A COMPLETE RECORD.

THE FOLLOWING LOGIC STATEMENT WILL PROCESS THE 'DA' TRANSACTION TYPE.

```
T0080     STARTCONGA    CONGO     DA        ASP
TRANS     FIELD0001     0001 2    DA
CARDT     FIELD0002     0001 3    DA
DATAA     FIELD0003     0047 0    DA
RCTRL     FIELD0054     0027 1    DA
          POOL
          CON   W350/350,2
          BEQ   SEC
          CLR   W1/500
          MNU   2,W350/350
          BRA   FIRST
SEC       CLR   W1/249
FIRST     BNR   ERR1
          COA   $RCTRL,W250/276
          BNE   START
          COA   W300/303,'DUPE'
          BEQ   ERR2
START     SDT   UDATE
          COA   T3/3,'X'
          BNE   FLD2
          MAL   '              ',OPNAM
          MAL   'X',W199/199
FLD2      COA   T16/16,'X'
          BNE   FLD3
          MAL   '        ',FCSUP
          MAL   'X',W199/199
FLD3      COA   T23/23,'X'
          BNE   FLD4
          MAL   '        ',COARD
          MAL   'X',W199/199
FLD4      COA   T31/31,'X'
          BNE   FLD5
          MAL   ' ',ARCOD
          MAL   'X',W199/199
FLD5      COA   T32/32,'X'
          BNE   FLD6
          MAL   '  ',PCODE
          MAL   'X',W199/199
FLD6      COA   T34/34,'X'
          BNE   FLD7
          MAL   ' ',SPOTS
          MAL   'X',W199/199
FLD7      COA   T35/35,'X'
          BNE   FLD8
          MAL   '  ',TGCOD
          MAL   'X',W199/199
FLD8      COA   T37/37,'X'
          BNE   FLD9
```

```
          MAL   '   ',DEDAF
          MAL   'X',W199/199
FLD9      COA   T40/40,'X'
          BNE   FLD10
          MAL   '  ',NPKIA
          MAL   'X',W199/199
FLD10     COA   T42/42,'X'
          BNE   FLD11
          MAL   '  ',NPWIA
          MAL   'X',W199/199
FLD11     COA   T44/44,'X'
          BNE   FLD12
          MAL   '  ',NPMIA
          MAL   'X',W199/199
FLD12     COA   T46/46,'X'
          BNE   FLD13
          MAL   ' ',WDI
          MAL   'X',W199/199
FLD13     COA   T47/47,'X'
          BNE   FLD14
          MAL   ' ',TCODE
          MAL   'X',W199/199
FLD14     COA   T48/48,'X'
          BNE   DELET
          MAL   '  ',OPCOD
          MAL   'X',W199/199
DELET     COA   W199/199,'X'
          BEQ   QUIT
          ADD   1,W485/489,W485/489
          MAL   'RECORD DELETED VIA DA TRANS',W1/30
          MAL   RCTRL,W40/70
          PRT   W1/70
          DDR
          HLT
ERR1      MAL   'DELETE CARD FOUND NO MATCH',W1/30
          LNK   ROUTE
          DDR
          HLT
ERR2      MAL   'PRIOR AA CARD WAS REJECTED',W1/30
          LNK   ROUTE
          HLT
ROUTE     MAL   T1/80,W40/119
          PRT   W1/120
          PCH   W40/119
          RET
QUIT      HLT
          END
```

THE FOLLOWING LOGIC STATEMENT WILL ADD DATA TO A NEWLY CREATED FIXED SET.

THE FOLLOWING LOGIC STATEMENT WILL PROCESS THE 'AA' TRANSACTION TYPE.

THERE ARE TWO TRANSACTION CODES GENERATED FROM THE 'AA' TRANSACTION TYPE. THE 'NB' TRANSACTION CODE PROCESSED BY THE FOLLOWING LOGIC STATEMENT PROCESSES INFORMATION ON SHIP NAMES, SHIP TYPES AND HULL NUMBERS.

```
T0080     STARTCONGA    CONGO      NB        ASP
TRANS     FIELD0001     0001 2     NB
CARDT     FIELD0002     0001 3     NB
SHPNM     FIELD0003     0016 0     NB
SHPTP     FIELD0019     0004 0     NB
HLLNO     FIELD0023     0004 0     NB
RCTRL     FIELD0054     0027 1     NB
          POOL
          CON   W350/350,2
          BEQ   SEC
          CLR   W1/500
          MNU   2,W350/350
          BRA   FIRST
SEC       CLR   W1/249
FIRST     BNR   ERR1
          COA   $RCTRL,W250/276
          BNE   ERR2
          MAL   $SHPNM,SHPNM
          MAL   $SHPTP,SHPTP
          MAL   $HLLNO,HLLNO
          HLT
ERR1      MAL   'GEN AB CARD FOUND NO MATCH',W1/30
          LNK   ROUTE
          DDR
          HLT
ERR2      MAL   'GEN AB CARD NOT IN SEQUENCE',W1/30
          LNK   ROUTE
          HLT
ROUTE     MAL   T1/80,W40/119
          MAL   'A',W40/40
          PRT   W1/120
          RET
          HLT
          END
```

THE FOLLOWING LOGIC STATEMENT WILL ADD PERIODIC SET 1, 2, OR 3 FOR AN EXISTING OR NEWLY CREATED FIXED SET.

THE FOLLOWING LOGIC STATEMENT WILL PROCESS THE 'AC' TRANSACTION TYPE.

```
T0080     STARTCONGA    CONGO     NC        ASP
TRANS     FIELD0001     0001 2    NC
CARDT     FIELD0002     0001 3    NC
PARAA     FIELD0003     0001 0    NC
CALEX     FIELD0004     0004 0    NC
ORTYP     FIELD0008     0005 0    NC
QTYEX     FIELD0013     0005 0    NC
RANGE     FIELD0018     0003 0    NC
NACFT     FIELD0021     0002 0    NC
ACTYP     FIELD0023     0006 0    NC
TSORT     FIELD0029     0002 0    NC
NSEXP     FIELD0031     0002 0    NC
LCODE     FIELD0033     0002 0    NC
MLQTY     FIELD0035     0003 0    NC
MLUNT     FIELD0038     0003 0    NC
MLDDD     FIELD0041     0003 0    NC
EPKIL     FIELD0044     0003 0    NC
RCTRL     FIELD0054     0027 1    NC
          POOL
          CON   W350/350,2
          BEQ   SEC
          CLR   W1/500
          MNU   2,W350/350
          BRA   FIRST
SEC       CLR   W1/749
FIRST     DNR   ERR1
          COA   $RCTRL,W250/276
          BNE   START
          COA   W300/303,'DUPE'
          BEQ   ERR2
START     SDT   UDATE
          COA   T4/20,'
          BEQ   TRY2
          POS   CALEX,BUILD
AGAIN     NOP
          COA   $PARAA,PARA1
          BEQ   ERR3
          STP   CALEX,AGAIN
BUILD     BSS   CALEX
          MAL   $PARAA,PARA1
          MAL   $CALEX,CALEX
          MAL   $ORTYP,ORTYP
          MNU   $QTYEX,QTYEX
          MNU   $RANGE,RANGE
TRY2      COA   T21/32,'
          BEQ   TRY3
          POS   NACFT,BLD
BACK      NOP
```

```
          COA   $PARAA,PARA2
          BEQ   ERR3
          STP   NACFT,BACK
BLD       BSS   NACFT
          MAL   $PARAA,PARA2
          MNU   $NACFT,NACFT
          MAL   $ACTYP,ACTYP
          MNU   $TSORT,TSORT
          MNU   $NSEXP,NSEXP
TRY3      COA   T33/46,'
          BEQ   QUIT
          POS   LCODE,BILD
OVER      NOP
          COA   $PARAA,PARA3
          BEQ   ERR3
          STP   LCODE,OVER
BILD      BSS   LCODE
          MAL   $PARAA,PARA3
          MAL   $LCODE,LCODE
          MNU   $MLQTY,MLQTY
          MAL   $MLUNT,MLUNT
          MAL   $MLDDD,MLDDD
          MNU   $EPKIL,EPKIL
QUIT      HLT
ERR1      MAL   'TYPE AC CARD FOUND NO MATCH',W1/30
          LNK   ROUTE
          DDR
          HLT
ERR2      MAL   'PRIOR AA CARD WAS REJECTED',W1/30
          LNK   ROUTE
          HLT
ROUTE     MAL   T1/80,W40/119
          MAL   'A',W40/40
          PRT   W1/120
          PCH   W40/119
          RET
          HLT
ERR3      MAL   'RECORD ALREADY EXIST',W1/30
          MAL   T1/80,W40/119
          MAL   'A',W40/40
          PRT   W1/120
          HLT
          END
```

THE FOLLOWING LOGIC STATEMENT WILL CHANGE PERIODIC SET 1, 2, OR 3.

THE FOLLOWING LOGIC STATEMENT WILL PROCESS THE 'CC' TRANSACTION TYPE.

```
T0080    STARTCONGA   CONGO     SC        ASP
TRANS    FIELD0001    0001 2    SC
CARDT    FIELD0002    0001 3    SC
PARAA    FIELD0003    0001 0    SC
CALEX    FIELD0004    0004 0    SC
ORTYP    FIELD0008    0005 0    SC
QTYEX    FIELD0013    0005 0    SC
RANGE    FIELD0018    0003 0    SC
NACFT    FIELD0021    0002 0    SC
ACTYP    FIELD0023    0006 0    SC
TSORT    FIELD0029    0002 0    SC
NSEXP    FIELD0031    0002 0    SC
LCODE    FIELD0033    0002 0    SC
MLQTY    FIELD0035    0003 0    SC
MLUNT    FIELD0038    0003 0    SC
MLDDD    FIELD0041    0003 0    SC
EPKIL    FIELD0044    0003 0    SC
RCTRL    FIELD0054    0027 1    SC
         POOL
         CON   W350/350,2
         BEQ   SEC
         CLR   W1/500
         MNU   2,W350/350
         BRA   FIRST
SEC      CLR   W1/249
FIRST    BNR   ERR1
         COA   $RCTRL,W250/276
         BNE   START
         COA   W300/303,'DUPE'
         BEQ   ERR2
START    SDT   UDATE
         COA   T4/20,'                    '
         BEQ   TRY2
         MAL   'OK',W203/204
         POV   $PARAA,PARA1,NOGO1
         MAC   $CALEX,CALEX
         MAC   $ORTYP,ORTYP
         MNC   $QTYEX,QTYEX
         MNC   $RANGE,RANGE
         BRA   TRY2
NOGO1    MAL   1,W200/200
TRY2     COA   T21/32,'                   '
         BEQ   TRY3
         MAL   'OK',W203/204
         POV   $PARAA,PARA2,NOGO2
         MNC   $NACFT,NACFT
         MAC   $ACTYP,ACTYP
         MNC   $TSORT,TSORT
         MNC   $NSEXP,NSEXP
```

```
         BRA  TRY3
NOGO2    MAL  2,W201/201
TRY3     COA  T33/46,'
         BEQ  QUIT
         MAL  'OK',W203/204
         POV  $PARAA,PARA3,NOGO3
         MAC  $LCODE,LCODE
         MNC  $MLQTY,MLQTY
         MAC  $MLUNT,MLUNT
         MAC  $MLDDD,MLDDD
         MNC  $EPKIL,EPKIL
         BRA  QUIT
NOGO3    MAL  3,W202/202
QUIT     COA  W203/204,'OK'
         BNE  ERR6
         CON  W200/200,1
         BEQ  ERR3
NO2      CON  W201/201,2
         BEQ  ERR4
NO3      CON  W202/202,3
         BEQ  ERR5
         HLT
ERR3     MAL  'PARA NO ON PER 1 NO MATCH',W1/30
         LNK  ROUTE
         BRA  NO2
ERR4     MAL  'PARA NO ON PER 2 NO MATCH',W1/30
         LNK  ROUTE
         BRA  NO3
ERR5     MAL  'PARA NO ON PER 3 NO MATCH',W1/30
         LNK  ROUTE
         HLT
ERR6     MAL  'TYPE CC CARD WITH NO INFO',W1/30
         LNK  ROUTE
         HLT
ERR1     MAL  'TYPE CC CARD FOUND NO MATCH',W1/30
         LNK  ROUTE
         DDR
         HLT
ERR2     MAL  'PRIOR AA CARD WAS REJECTED',W1/30
         LNK  ROUTE
         HLT
ROUTE    MAL  T1/80,W40/119
         MAL  'C',W40/40
         PRT  W1/120
         PCH  W40/119
         RET
         HLT
         END
```

THE FOLLOWING LOGIC STAREMENT WILL DELETE FIELDS IN PERIODIC SET 1, 2, OR 3. IT WILL ALSO DELETE A SUBSET IN PERIODIC SET 1, 2, OR 3.

THE FOLLOWING LOGIC STATEMENT WILL PROCESS THE 'DC' TRANSACTION TYPE.

```
T0080     STARTCONGA    CONGO     DC        ASP
TRANS     FIELD0001     0001 2    DC
CARDT     FIELD0002     0001 3    DC
PARAA     FIELD0003     0001 0    DC
DATAC     FIELD0004     0043 0    DC
RCTRL     FIELD0054     0027 1    DC
          POOL
          CON   W350/350,2
          BEQ   SEC
          CLR   W1/500
          MNU   2,W350/350
          BRA   FIRST
SEC       CLR   W1/249
FIRST     BNR   ERR1
          COA   $RCTRL,W250/276
          BNE   START
          COA   W300/303,'DUPE'
          BEQ   ERR2
START     SDT   UDATE
          COA   T4/4,'X'
          BNE   TRY2
          MAL   'X',W199/199
          POV   $PARAA,PARA1,NOGO1
          DSC   CALEX
          BRA   TRY2
NOGO1     MAL   1,W200/200
TRY2      COA   T21/21,'X'
          BNE   TRY3
          MAL   'X',W199/199
          POV   $PARAA,PARA2,NOGO2
          DSC   ACTYP
          BRA   TRY3
NOGO2     MAL   2,W201/201
TRY3      COA   T33/33,'X'
          BNE   QUIT
          MAL   'X',W199/199
          POV   $PARAA,PARA3,NOGO3
          DSC   LCODE
          BRA   QUIT
NOGO3     MAL   3,W202/202
QUIT      COA   W199/199,'X'
          BNE   ERR6
          CON   W200/200,1
          BEQ   ERR3
NO2       CON   W201/201,2
          BEQ   ERR4
NO3       CON   W202/202,3
          BEQ   ERR5
```

```
         HLT
ERR6     MAL   'TYPE DC CARD WITH NO X',W1/30
         LNK   ROUTE
         HLT
ERR3     MAL   'PARA NO ON PER 1 NO MATCH',W1/30
         LNK   ROUTE
         BRA   NO2
ERR4     MAL   'PARA NO ON PER 2 NO MATCH',W1/30
         LNK   ROUTE
         BRA   NO3
ERR5     MAL   'PARA NO ON PER 3 NO MATCH',W1/30
         LNK   ROUTE
         HLT
ERR1     MAL   'TYPE DC CARD FOUND NO MATCH',W1/30
         LNK   ROUTE
         DDR
         HLT
ERR2     MAL   'PRIOR AA CARD WAS REJECTED',W1/30
         LNK   ROUTE
         HLT
ROUTE    MAL   T1/80,W40/119
         PRT   W1/120
         PCH   W40/119
         RET
         HLT
         END
```


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THE FOLLOWING LOGIC STATEMENT WILL DELETE A COMPLETE RECORD.

THE FOLLING LOGIC STATEMENT WILL PROCESS THE '*' TRANSACTION TYPE.

```
T0080          STARTCONGA    CONGO     *D        ASP
     TRANS     FIELD0001     0001 0    *D
     CARDT     FIELD0002     0001 0    *D
     SDATE     FIELD0054     0006 0    *D
     UIC       FIELD0072     0006 0    *D
     SERES     FIELD0078     0003 0    *D
               POOL
               CON   W350/350,2
               BEQ   SEC
               CLR   W1/500
               MNU   2,W350/350
               BRA   FIRST
     SEC       CLR   W1/70
     FIRST     COA   $SDATE,SDATE
               BNE   QUIT
               COA   $UIC,UIC
               BNE   QUIT
               COA   $SERES,SERES
               BNE   QUIT
               ADD   1,W485/489,W485/489
               MAL   'RECORD DELETED VIA *D TRANS',W1/30
               MAL   RCTRL,W40/70
               PRT   W1/70
               DDR
     QUIT      HLT
               END
```

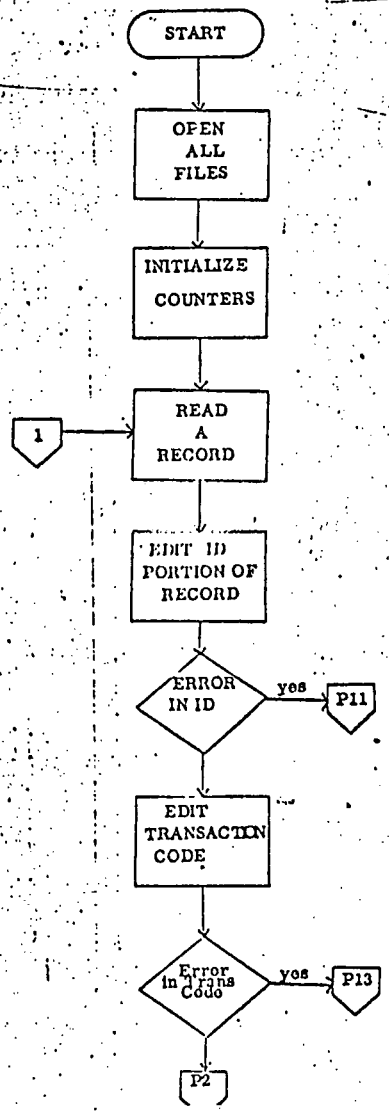
THE FOLLOWING LOGIC STATEMENT IS A RANGE TO CALCULATE STATISTICS ON THE CONGA DATA BASE.

```
T0080     STARTCONGA    CONGO     *S        ASP
          POOL
*             RANGE STATEMENT TO CALCULATE
*             STATISTICS ON THE CONGA DATA BASE
*
*             RECORDS PRIOR TO UPDATE IN W495/500
*             RECORDS ADDED TO FILE IN W480/484
*             RECORDS DELETED FROM FILE IN W485/489
*             RECORDS AFTER THE UPDATE IS W495/500
*             PLUS W480/484 MINUS W485/489
*
          CON   W350/350,2
          BEQ   SEC
          CLR   W1/500
          MNU   2,W350/350
          BRA   FIRST
SEC       CLR   W1/70
FIRST     ADD   1,W495/500,W495/500
          SMR   FINAL
          HLT
FINAL     MAL   ' ',W1/1
          PRT   W1/1
          PRT   W1/1
          MAL   'RECORDS PRIOR TO UPDATE',W30/52
          MUL   W495/500,10,W65/71
          PRT   W30/70
          PRT   W1/1
          CLR   W30/70
          MAL   'RECORDS ADDED TO FILE',W30/50
          MUL   W480/484,10,W66/71
          PRT   W30/70
          PRT   W1/1
          CLR   W30/70
          MAL   'RECORDS DELETED FROM FILE',W30/54
          MUL   W485/489,10,W66/71
          PRT   W30/70
          PRT   W1/1
          CLR   W30/70
          MAL   'RECORDS AFTER FMS UPDATE',W30/53
          ADD   W480/484,W495/500,W495/500
          SUB   W495/500,W485/489,W495/500
          MUL   W495/500,10,W65/71
          PRT   W30/70
          HLT
          END
          STOP
```

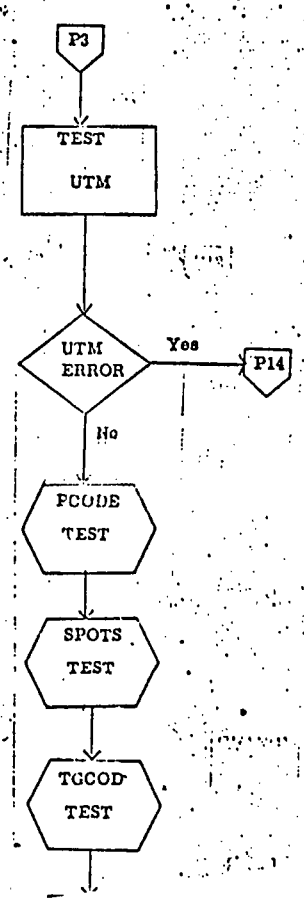
D. FILE MAINTENANCE FLOW CHARTS.

1. NEXT ATTACHED IS A FLOW CHART FOR THE PREPROCESSOR PROGRAM, ALSO A FLOW CHART FOR THE FMS LOGIC.

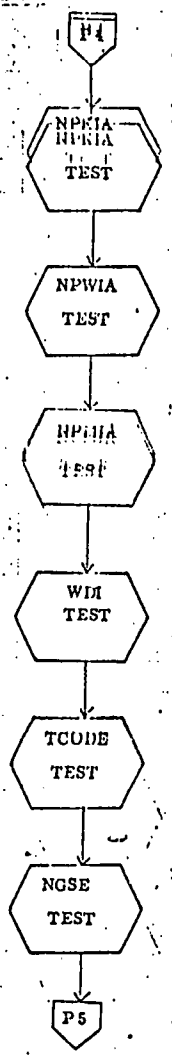
NARA Reference Copy Page #120



NARA Reference Copy Page #121

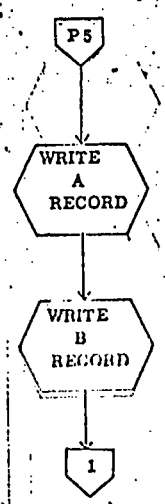


NARA Reference Copy Page #122



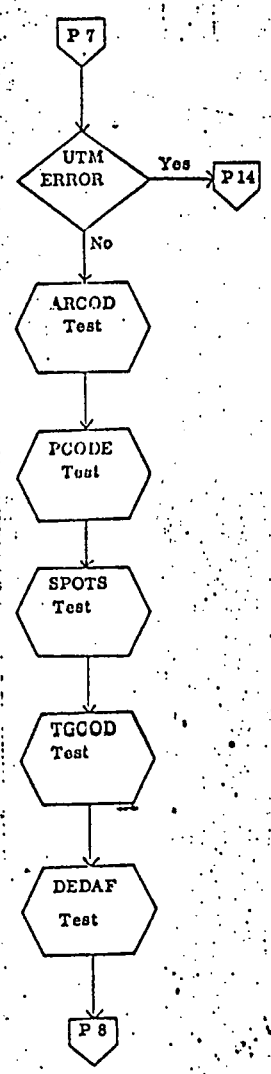
UNCLASSIFIED

NARA Reference Copy Page #123

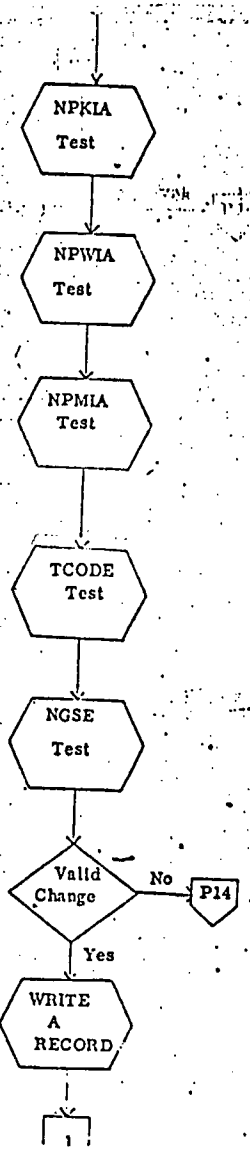


NARA Reference Copy Page #124

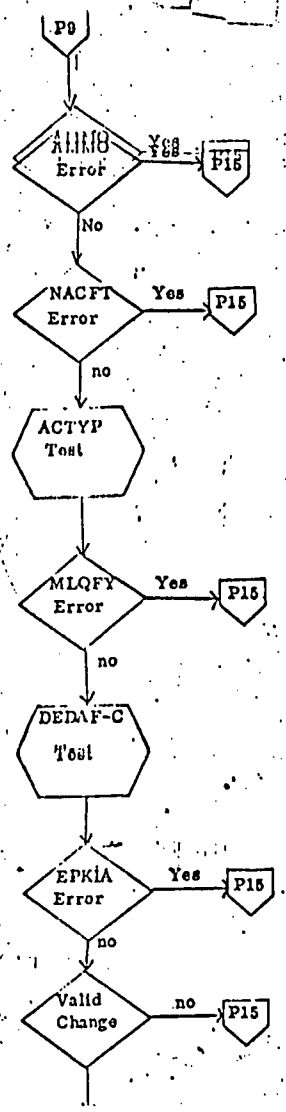
NARA Reference Copy Page #125

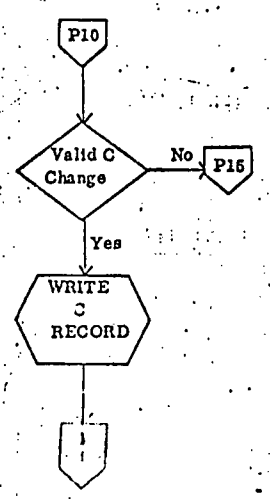


NARA Reference Copy Page #126

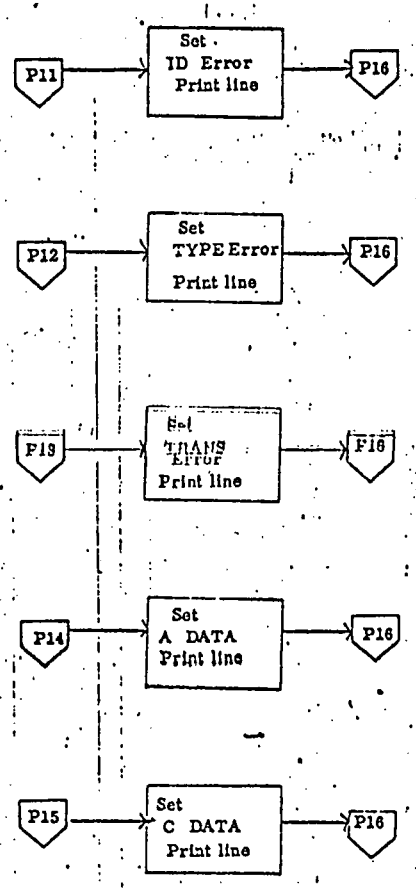


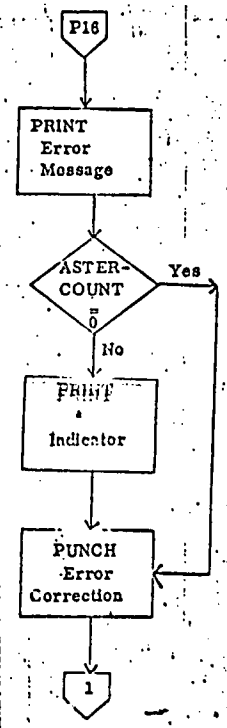
NARA Reference Copy Page #127


P9
ALIMO Error
Yes
P15
No
NACFT Error
Yes
P15
no
ACTYP Test
MLQFY Error
Yes
P15
no
DEDAF-C Test
EPKIA Error
Yes
P15
no
Valid Change
no
P15

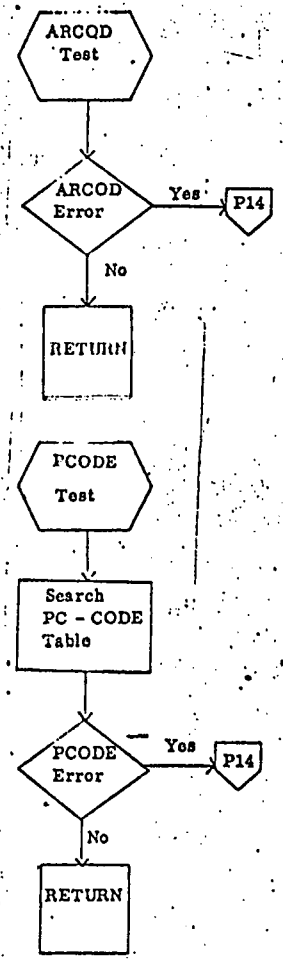


NARA Reference Copy Page #129

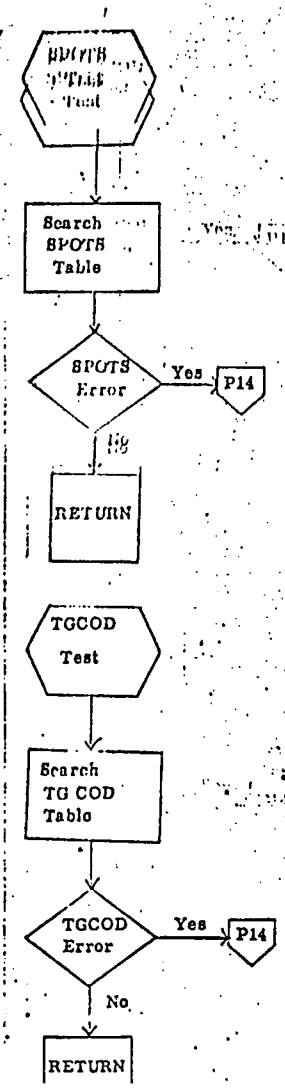

P11
Set
ID Error
Print line
P16
P12
Set
TYPE Error
Print line
P16
P13
Set
TRANS
Error
Print line
P16
P14
Set
A DATA
Print line
P16
P15
Set
C DATA
Print line
P16



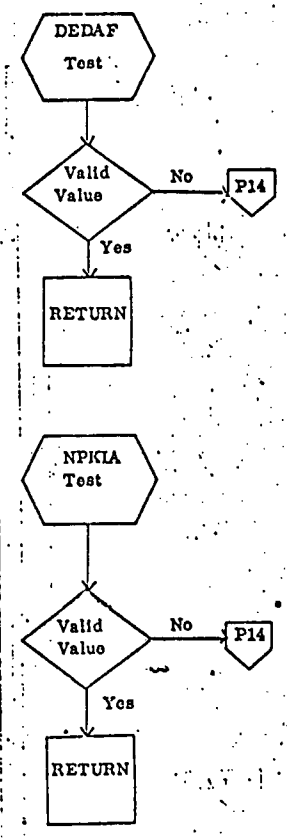
NARA Reference Copy Page #131



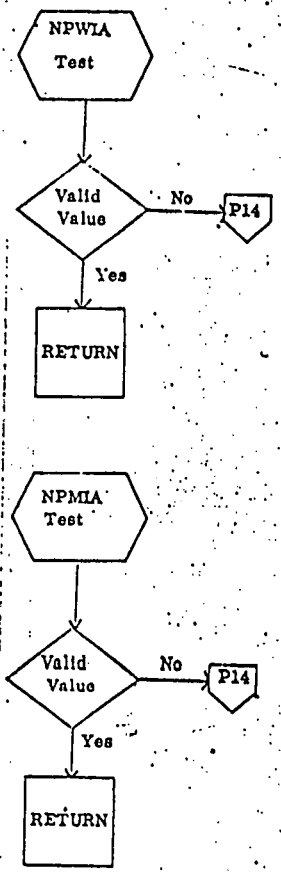
NARA Reference Copy Page #132



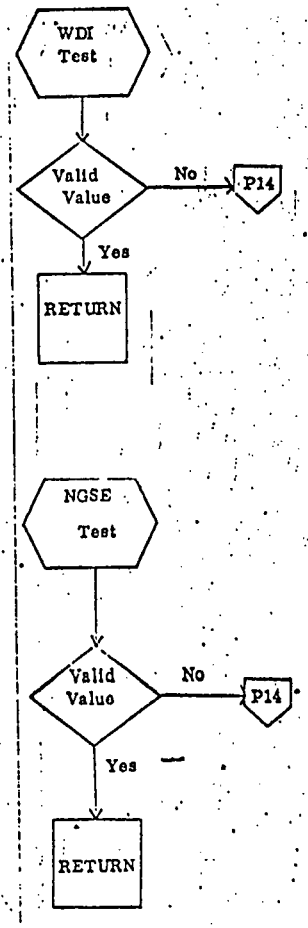
NARA Reference Copy Page #133



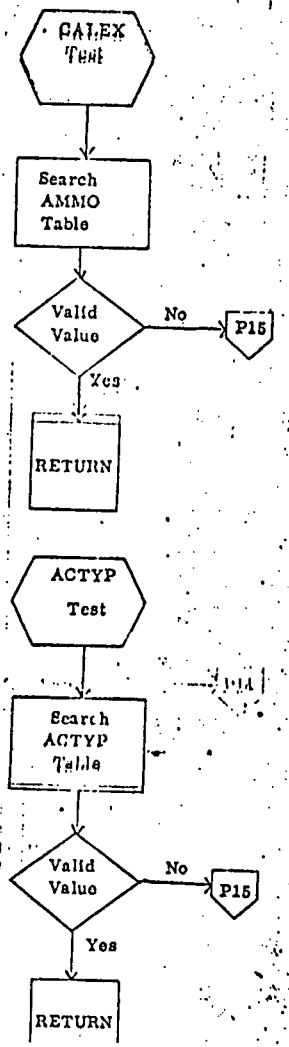
NARA Reference Copy Page #134



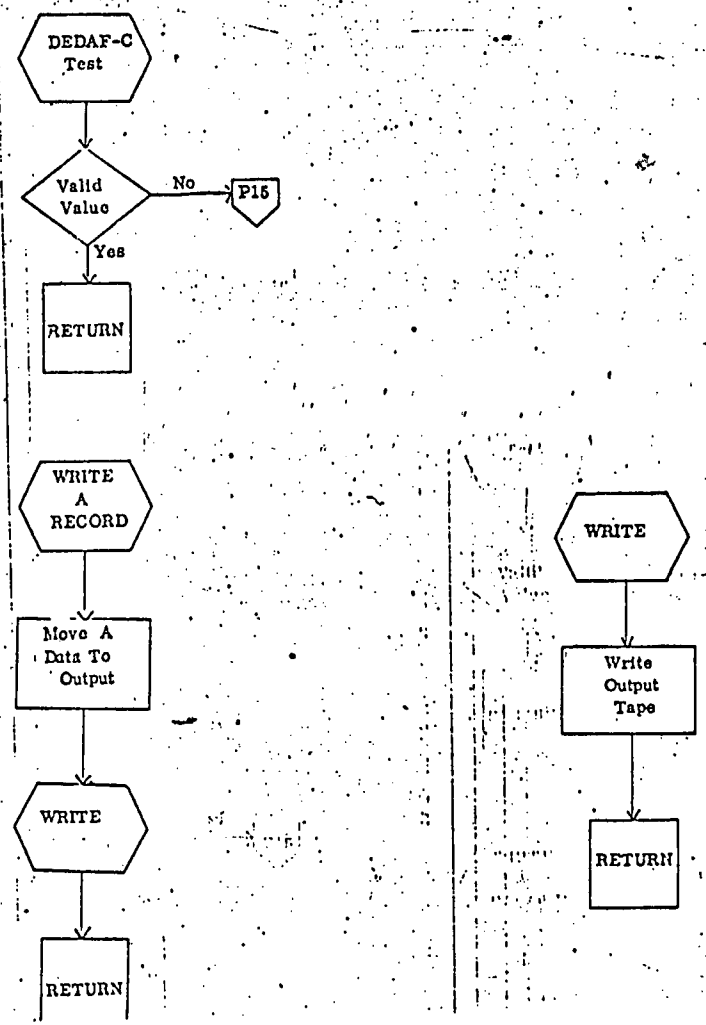
NARA Reference Copy Page #135



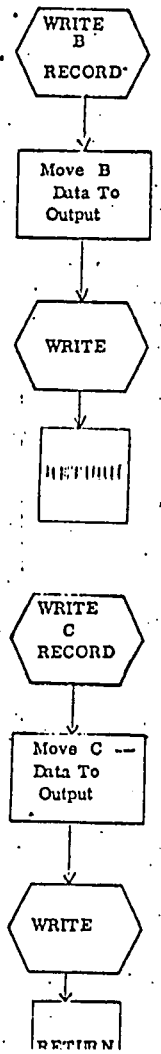
NARA Reference Copy Page #136



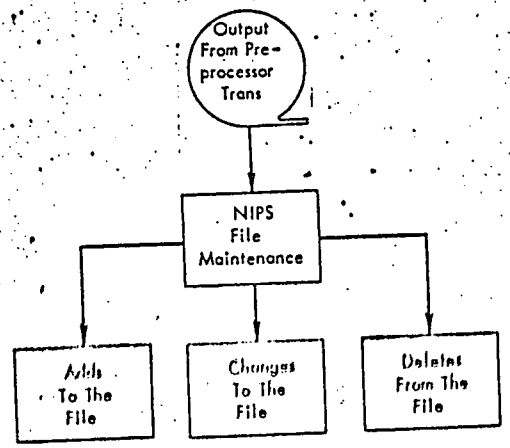
NARA Reference Copy Page #137



NARA Reference Copy Page #138



NARA Reference Copy Page #139



NARA Reference Copy Page #140

E. FMS REPORTS.

ERROR LISTINGS ARE CLASSIFIED

FOLLOWING IS A SAMPLE FORMAT, WITHOUT THE CLASSIFIED TRANSACTION, OF THE FM LOGIC STATEMENTS.

TRANSACTION	MESSAGE	DESCRIPTION
XXXXXXXXXXXXXXXX	DUPLICATE RECORD ID	THIS RECORD ALREADY EXISTS ON THE DATA BAS
XXXXXXXXXXXXXXXX	CHANGE CARD FOUND NO MATCH	THERE WAS NO RECORD TO MATCH THE CHANGE TRANSACTION.
XXXXXXXXXXXXXXXX	PRIOR AA CARD WAS REJECTED	THE TRANSACTION TO ADD THIS RECORD WAS REJECTED.
XXXXXXXXXXXXXXXX	RECORD DELETED VIA 'DA' TRANS.	THIS RECORD DELETED BY A 'DA' TRANSACTION.
XXXXXXXXXXXXXXXX	DELETE CARD FOUND NO MATCH	THERE WAS NO RECORD TO MATCH THIS TRANSACTION.
XXXXXXXXXXXXXXXX	GEN AB CARD FOUND NO MATCH	THERE WAS NO RECORD TO MATCH THIS TRANSACTION.
XXXXXXXXXXXXXXXX	GEN AB CARD NOT IN SEQUENCE	THIS TRANSACTION WAS OUT OF SEQUENCE.
XXXXXXXXXXXXXXXX	TYPE AC CARD FOUND NO MATCH	THERE WAS NO RECORD TO MATCH THIS TRANSACTION.
XXXXXXXXXXXXXXXX	RECORD ALREADY EXIST	THIS RECORD ALREADY EXISTS ON THE DATA BAS
XXXXXXXXXXXXXXXX	PARA NO ON PER 1 NO MATCH	THERE WAS NOT A PARAGRAPH NO TO MATCH TRANSACTION.
XXXXXXXXXXXXXXXX	PARA NO ON PER 2 NO MATCH	SAME AS ABOVE

TRANSACTION	MESSAGE	DESCRIPTION
XXXXXXXXXXXXXXXX	PARA NO ON PER 3 NO MATCH	SAME AS ABOVE
XXXXXXXXXXXXXXXX	TYPE CC CARD WITH NO INFO	THIS TRANSACTION HAD NO CHANGE INFORMATION.
XXXXXXXXXXXXXXXX	TYPE CC CARD FOUND NO MATCH	THERE WAS NO RECORD TO MATCH THIS TRANSACTION.
XXXXXXXXXXXXXXXX	TYPE DC CARD WITH NO 'X'	THIS TRANSACTION HAD NO CHANGE INFORMATION
XXXXXXXXXXXXXXXX	TYPE DC CARD FOUND NO MATCH	THERE WAS NO RECORD TO MATCH THIS TRANSACTION.
XXXXXXXXXXXXXXXX	RECORD DELETED VIA '*D' TRANS	THIS RECORD DELETED WITH A 'DA' TRANSACTION.
	RECORDS PRIOR TO UPDATE	THIS IS THE NUMBER OF RECORDS ON THE FILE BEFORE UPDATE.
	RECORDS ADDED TO FILE	THIS IS THE NUMBER OF RECORDS ADDED TO THE FILE BY THIS UPDATE.
	RECORDS DELETED FROM FILE	THIS IS THE NUMBER OF RECORDS DELETED FROM THE FILE BY THIS UPDATE

A. RETRIEVAL FOR NG01R

1. NG01R, REVISED MARCH, 1969

2. THE PURPOSE OF THE RETRIEVAL IS TO SHOW TOTALS OF ORDNANCE EXPENDED BY SHIP TYPE FOR A CORPS AREA. INFORMATION RETRIEVED RELATES TO ORDNANCE TYPES BY SHIP TYPE AND CORPS AREA FOR PERIOD QUERIED.

3. QUERY

```
TITLE NG01R/01.
LIMIT SDATE BT XXXXXX/XXXXXX.
IF UDATE GE XXXXX.
SORT -  -,UIC,-          -,SDATE.
```

B. OUTPUT FOR NG01R.

1. ATTACHED IS A MACHINE LISTING OF NG01R

2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG01R.

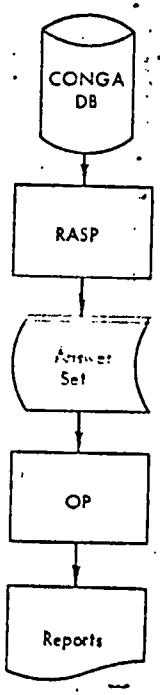
3. NG01R PRODUCES 'TYPE AMMUNITION EXPENDITURE TOTALS'.

```
CREATE RITID=NG01R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT, LINES 50
DEFINE AC 'CORPS AREA'
DEFINE RP 'ROUTE PKG'
DEFINE NG 'NAVAL GUNFIRE'
DEFINE SE 'SEA DRAGON'
DEFINE ST '      '
DEFINE SW 'A'
*
HEADER1, 082, '***SECRET***'
HEADER2, 012, 'REPORT NG01R'
SPACE 2
HEADER3, 013, NG IF SORT 4-5 EQ 'NG'
HEADER3, 010  SE IF SORT 4-5 EQ 'SE'
HEADER4, 010, 'DATA AS OF'
HEADER4, 017, SORT 24-25 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST 3-4 TABLE MONTS IF SW EQ 'B'
HEADER4,020, '19'
HEADER4, 022, SORT 22-23 IF SW EQ 'A'
HEADER4, 022, ST 1-2 IF SW EQ 'B'
HEADER4, 114, 'DATE OF REPORT-'
HEADER4, 126, OPDATE
HEADER4 081 'C-O-N-G-A R-E-C-O-R-D D-U-M-P'
LINE1, IF SW EQ 'A'
LINE1, MOVE SORT 22-27 TO ST
LINE1, MOVE 'B' TO SW
LINE1, IF SW EQ 'Z'
LINE2 050 '*****************************************************'
LINE2 100 '*****************************************************'
LINE2 132 '*********************************'
SPACE 3 BEFORE LINE3
LINE3, 012, 'CONTROL DATE'
LINE3, 015, SDATE 5-6
LINE3, 019, SDATE 3-4 TABLE MONTS
LINE3, 022, '19'
LINE3, 024, SDATE 1-2
LINE3, 041, 'DATE OF UPDATE'
LINE3, 048, UDATE
SPACE 2
LABEL6A, 132, '* * * *R E C O R D  C O N T R O L * * * * * *'
LABEL6B, 040 AC 1-5 IF SORT 4-5 EQ 'NG'
LABEL6B, 040 RP 1-5 IF SORT 4-5 EQ 'SE'
LABEL6B 122 'PERIOD  OP  *DATE OF   STARTING   ENDING   SHIP'
```

```
LABEL6B, 132, 'SERIES'
LABEL6C, 029, 'OPERATION NAME   FORCE    UTM'
LABEL6C, 039, AC 7-10 IF SORT 4-5 EQ 'NG'
LABEL6C, 039 RP 7-9 IF SORT 4-5 EQ 'SE'
LABEL6C, 073, 'PROVINCE    SPOT  TYPE OF TARGET'
LABEL6C, 094, 'OF DAY TYPE *FIRING'
LABEL6C, 132, 'DAY TIME  DAY TIME  UIC     NUMBER'
LABEL6D, 088, '*'
LINE6, 015, OPNAM
LINE6, 024, FCSUP
LINE6, 034, COARD
LINE6, 037, ARCOD
LINE6, 053, PCODE TABLE PROVS
LINE6, 055, SPOTS
LINE6, 074, TGCOD TABLE TARES
LINE6, 078, TCODE
LINE6, 085, OPCOD
LINE6, 088, '*'
LINE6, 090, SDATE 1-2
LINE6, 091, '/'
LINE6, 093, SDATE 3-4
LINE6, 094, '/'
LINE6, 096, SDATE 5-6
LINE6  100, STIME 1-2
LINE6, 106, STIME 3-6
LINE6, 110, ETIME 1-2
LINE6, 116, ETIME 3-6
LINE6, 124, UIC
LINE6, 141, SORTS
LINE9, 088, '*'
LINE12, 088, '*'
LABEL15A, 118, '*S H I P  I N F O R M A T I O N'
LABEL15B 118 '*      NAME        TYPE    HULL'
LINE15, 088, '*'
LINE15 104 SHPNM
LINE15 110 SHPTP
LINE15, 118, HLLNO
LINE18 132 '* * * * * * * * * * * * * * * * * * * * * * * *'
SPACE 2
LABEL21A, 071, 'DEGREE OF     * * *  P E R S O N N E L * * * *'
LABEL21A, 084, 'DAMAGE'
LABEL21B, 072, 'DAMAGE        KILLED          WOUNDED  MISSING'
LABEL21B, 086, 'INFLICTED BY'
LINE21, IF DEDAF NE '   ' AND NPKIA NE  00  AND NPWIA NE  00  AND      C
LINE21, NPMIA NE  00  AND WDI NE ' '
LINE21, IF FRSET NE '0000000000'
LINE21, 016, 'FRIENDLY LOSSES '
LINE21, 028, DEDAF
LINE21, 043, NPKIA
LINE21, 060, NPWIA
LINE21, 069, NPMIA
LINE21, 080, WDI
SPACE 2
```

```
LABEL24A, 073, 'PARAGRAPH     40 R D N A N C E  E-X P E N D E D*'
LABEL24A, 082, 'RANGE TO'
LABEL24B, 073, 'NUMBER        CALIBER          TYPE     QUANTITY'
LABEL24B, 080, 'TARGET'
LINE24, ALL
LINE24, IF PSCT1 1-4 GT 0000
LINE24, 020, 'AMMUNITION EXPENDED '
LINE24, 029, PARA1
LINE24, 044, CALEX
LINE24, 061, ORTYP
LINE24, 071, QTYEX
LINE24, 077, RANGE EDIT ' 0 '
LINE24, 083, '00 YDS'
SPACE 2
LABEL27A, 089, '* * * * *'
LABEL27A 064 'PARAGRAPH     * * * * * A I R C R A F T'
LABEL27A, 079, 'S O R T I E S'
LABEL27B, 070, 'NUMBER        AVAILABLE         TYPE    FLOWN'
LABEL27B, 088, 'EXPENDING AMMO'
LINE27, ALL
LINE27, IF PSCT2 1-4 GT 0000
LINE27, 021, 'AIRCRAFT INFORMATION '
LINE27, 029, PARA2
LINE27, 045, NACFT
LINE27, 062, ACTYP
LINE27, 069, TSORT
LINE27, 082, NSEXP
SPACE 2
LABEL30A, 077, 'PARAGRAPH     * * * * * M A T E R I E L  L O S S E S'
LABEL30A, 099, '* * * * *   PERSONNEL'
LABEL30B, 070, 'NUMBER        TYPE OF LOSS     QUANTITY UNITS'
LABEL30B, 097, 'DEGREE OF DAM    KILLED'
LINE30, ALL
LINE30, IF PSCT3 1-4 GT 0000
LINE30, 013, 'ENEMY LOSSES '
LINE30, 029, PARA3
LINE30, 054, LCODE TABLE TARES
LINE30, 062, MLQTY
LINE30, 069, MLUNT
LINE30, 082, MLODD
LINE30, 096, EPKIL
SPACE 2
LINE33, IF SORT 4-30 COMPLETE
LINE33,MOVE 'A' TO SW
LINE33A, IF SW NE SW
SPACE 2 BEFORE TRAILER1
TRAILER1, 082, '***SECRET***'
TRAILER1, 125, 'PAGE'
TRAILER1, 132, PAGENO
END
```

RETRIEVALS



UNCLASSIFIED

REPORT NG01R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY

C-O-N-G-A R-E-C-O-R-D D-U-M-P

DATE OF REPORT-ED MMM YYYY

CONTROL DATE ED MMM YYYY DATE OF UPDATE YYEDD

OPERATION NAME	FORCE	UTM	COORD AREA	PROVINCE	SPOT	TYPE OF TARGET	PERIOD OF DAY	TYPE	DATE OF FIRING	STARTING DAY TIME	ENDING DAY TIME	UIC	SERIES NUMBER
X OPNAM	X FCSUP	X-COORD-X	N X	PCODE	X X	X TGCOD	X TCODE	OPCOD	YY/MM/DD	DD HHMM	DD HHMM	X UIC X	NNN

SHIP INFORMATION

NAME	TYPE	HULL
X SHPNM	X SHPTP	HLLNO

	DEGREE OF DAMAGE	PERSONNEL KILLED	WOUNDED	MISSING	DAMAGE INFLICTED BY
FRIENDLY LOSSES	XXX	NNN	NNN	NNN	X

	PARAGRAPH NUMBER	ORDNANCE CALIBER	TYPE	EXPENDED QUANTITY	RANGE TO TARGET
AMMUNITION EXPENDED	N	XXXX	XXXXX	NNNNN	NNNOOYDS
	N	XXXX	XXXXX	NNNNN	NNNOOYDS
	N	XXXX	XXXXX	NNNNN	NNNOOYDS

	PARAGRAPH NUMBER	AIRCRAFT SORTIES AVAILABLE	TYPE	FLOWN	EXPENDING AMMO
AIRCRAFT INFORMATION	N	NN	XXXXXX	NN	NN
	N	NN	XXXXXX	NN	NN

	PARAGRAPH NUMBER	MATERIEL LOSSES TYPE OF LOSS	QUANTITY	UNITS	DEGREE OF DAM	PERSONNEL KILLED
ENEMY LOSSES	N	X LCODE	X NNN	XXX	XXX	NNN
	N	X LCODE	X NNN	XXX	XXX	NNN

PAGE NNNNNNN

UNCLASSIFIED

A. RETRIEVAL FOR NG03R

1. NG03R, REVISED MARCH, 1969

2. THE PURPOSE OF THE RETRIEVAL IS TO PROVIDE A FIRING SUMMARY BY SHIP TYPE GIVING THE TOTAL OF EACH TYPE OF CALIBER EXPENDED. THE INFORMATION RETRIEVED RELATES ONLY TO SHIP TYPES AND CALIBER EXPENDED FOR THE PERIOD QUERIED.

3. QUERY

```
TITLE NG03/03.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE.
SORT SDATE 1/4,-        -,OPCOD,-A-,SHPTP,UIC.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE.
SORT SDATE 1/4,-        -,OPCOD,-B-,SDATE.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND QTYEX GT 0.
SORT SDATE 1/4,-        -,OPCOD,-C-,UIC.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND QTYEX GT 0.
SORT SDATE 1/4,-        -,OPCOD,-Y-,CALEX,ORTYP.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND (LCODE NE - - OR MLQTY NE 0 OR EPKIL NE 0)
AND QTYEX GT 0.
SORT SDATE 1/4,-        -,OPCOD,-Z-,UIC,SDATE,RCTRL.
```

B. OUTPUT FOR NG03R.

1. ATTACHED IS A MACHINE LISTING OF NG03R.

2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG03R.

3. NG03R PRODUCES 'SUPPORT OPERATIONS FIRING SUMMARY'.

```
CREATE RITID=NG03R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT, LINES 45
DEFINE HULL, '    '
DEFINE FLAG, 3
DEFINE AMMO, 7
DEFINE SHIPS  2
DEFINE XA 3
DEFINE XB 4
DEFINE XC 7
DEFINE XD  9
DEFINE NMR, 5
DEFINE DNR, 5
DEFINE TERC, 7
DEFINE NG 'NAVAL GUNFIRE'
DEFINE SE 'SEA DRAGON'
DEFINE ST '            '
DEFINE SW 'A'
HEADER1, 082, '***[redacted]***'
HEADER2, 012, 'REPORT NG03R'
SPACE 2
HEADER3, 013, NG IF SORT 16-17 EQ 'NG'
HEADER3, 010, SE IF SORT 16-17 EQ 'SE'
HEADER4, 010, 'DATA AS OF'
HEADER4, 013, SORT 8-9 IF SW EQ 'A'
HEADER4, 013, ST 5-6 IF SW EQ 'B'
HEADER4, 017, SORT 6-7 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST 3-4 TABLE MONTS IF SW EQ 'B'
HEADER4,020, '19'
HEADER4, 022, SORT 4-5 IF SW EQ 'A'
HEADER4, 022, ST 1-2 IF SW EQ 'B'
HEADER4, 027, 'THRU' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 027, 'THRU' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 030, SORT 14-15 IF SW EQ 'A'
HEADER4, 030, ST 11-12 IF SW EQ 'B'
HEADER4, 034, SORT 12-13 TABLE MONTS IF SW EQ 'A'
HEADER4, 034, ST 9-10 TABLE MONTS IF SW EQ 'B'
HEADER4, 037, '19' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 037, '19' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 039, SORT 10-11 IF SW EQ 'A'
HEADER4, 039, ST 7-8 IF SW EQ 'B'
HEADER4, 114, 'DATE OF REPORT-'
HEADER4, 126, OPDATE
HEADER4, 083, 'S-U-P-P-O-R-T  O-P-E-R-A-T-I-O-N-S'
SPACE 2
```

```
HEADER5  078, 'F-I-R-I-N-G  S-U-M-M-A-R-Y'
HEADER5, 001, ' '
COMPUTE XC EQ TOTAL OF QTYEX IF SORT 18-18 EQ 'Y'
LINE1, IF SW EQ 'A'
LINE1, MOVE SORT 4-15 TO ST
LINE1, MOVE 'B' TO SW
LINE1, IF SW EQ 'Z'
LINE2, IF UIC CHANGES AND SORT 18-18 EQ 'A'
LINE2, ADD 1 TO SHIPS
LINE2A, IF AMMO NE AMMO
LINE3, IF SHPTP CHANGES AND SORT 18-18 EQ 'A' AND FLAG EQ 0
LINE3, MOVE SHPTP TO HULL
LINE3, ADD 1 TO FLAG
LINE3A, IF AMMO NE AMMO
LINE4, IF SHPTP CHANGES AND SORT 18-18 EQ 'A' AND FLAG EQ 1
LINE4, 037, 'SHIP TYPES PROVIDING SUPPORT'
LINE4, 053, 'TYPE'
LINE4, 075, 'NUMBER'
LINE5, IF SHPTP CHANGES AND SORT 18-18 EQ 'A' AND FLAG GT 1
LINE5, 053, HULL
LINE5, SUB 1 FROM SHIPS IF FLAG EQ 2
LINE5, 071, SHIPS
LINE5, RESET SHIPS TO 0
LINE5, ADD 1 TO FLAG
LINE5, MOVE SHPTP TO HULL
LINE8, IF SHPTP CHANGES AND SORT 18-18 EQ 'A' AND FLAG EQ 1
LINE8, ADD 1 TO FLAG
LINE8A, IF AMMO NE AMMO
LINE11, IF SORT 18-18 CHANGES AND SORT 18-18 EQ 'B'
LINE11, 053, HULL
LINE11, ADD 1 TO SHIPS
LINE11, 071, SHIPS
SPACE 3
LINE14, IF SORT 18-18 CHANGES AND SORT 18-18 EQ 'Y'
LINE14, 026, 'ORDNANCE EXPENDED'
LINE14, 085, 'CALIBER              TYPE      NUMBER'
LINE17, SCAN
LINE17, IF SORT 18-18 EQ 'Y'
LINE17, ADD QTYEX TO AMMO
LINE17A, IF FLAG NE FLAG
LINE19, SCAN
LINE19, IF SORT 19-27 COMPLETE AND SORT 18-18 EQ 'Y'
LINE19, 053, CALEX
LINE19, 074, ORTYP
LINE19, 086, AMMO
LINE19, RESET AMMO TO 0
LINE21 IF RCTRL CHANGES AND SORT 18-18 EQ 'C'
LINE21, ADD 1 TO XB
LINE21A, IF XB NE XB
LINE24, IF UIC CHANGES AND SORT 18-18 EQ 'C'
LINE24, ADD 1 TO XA
LINE24A , IF XB NE XB
LINE28, ADD 1 TO NMR IF SORT 18-18 EQ 'Z'
```

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```
LINE28A, IF XB NE XB
LINE30, IF SORT 4-9 COMPLETE AND SORT 18-18 EQ 'Z'
LINE30, MOVE 'A' TO SW
LINE30A, IF SW NE SW
SPACE 3 BEFORE FINALLINE1
FINALLINE1, 032, 'SHIPS PROVIDING SUPPORT'
FINALLINE1, 053 XA
FINALLINE1, COMPUTE XD EQ XB MUL 10 DIV XA
FINALLINE1, COMPUTE TERC EQ  NMR MUL 10000 DIV XB IF XB GT 0
SPACE 2
FINALLINE2, 029, 'TOTAL MISSIONS FIRED'
FINALLINE2, 053, XB
SPACE 2
FINALLINE3, 040, 'AVERAGE MISSIONS FIRED PER SHIP'
FINALLINE3, 058, XD EDIT '      0. '
FINALLINE4, 042, 'TOTAL ROUNDS OF ORDNANCE EXPENDED'
FINALLINE4, 057, XC
FINALLINE5, 044, 'PERCENT OF FIRINGS AGAINST TARGETS'
FINALLINE5, 075, 'PERCENTAGE                FIRINGS'
FINALLINE6, 044, 'WITH REPORTED RESULTS'
FINALLINE6, 056, TERC EDIT '      .  '
FINALLINE6, 074, NMR
SPACE 3
TRAILER1, 082, '***SECRET***'
TRAILER1, 125, 'PAGE'
TRAILER1, 132, PAGENO
END
```

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REPORT MG03R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

DATE OF REPORT-DD MMM YYYY

	S-U-P-P-O-R-T F-I-R-I-N-G	O-P-E-R-A-T-I-O-N-S S-U-M-M-A-R-Y	
SHIP TYPES PROVIDING SUPPORT	TYPE	NUMBER	
	XXXX	NN	
	XXXX	NN	
	XXXX	NN	
ORDNANCE EXPENDED	CALIBER	TYPE	NUMBER
	XXXX	XXXXX	NNNNNNN
	XXXX	XXXXX	NNNNNNN
	XXXX	XXXXX	NNNNNNN
SHIPS PROVIDING SUPPORT	NUM		
TOTAL MISSIONS FIRED	NNNN		
AVERAGE MISSIONS FIRED PER SHIP	NNNNNNNN.N		
TOTAL ROUNDS OF ORDNANCE EXPENDED	NNNNNNNN		
PERCENT OF FIRINGS AGAINST TARGETS WITH REPORTED RESULTS	PERCENTAGE NNNNN.NN	FIRINGS NNNNN	

PAGE NNNNNNN

A. RETRIEVAL FOR NG05R.

1. NG05R, REVISED MARCH, 1969

2. THE PURPOSE OF THE RETRIEVAL IS TO PROVIDE A LISTING SHOWING TOTALS OF ORDNANCE TYPES EXPENDED. THE INFORMATION RETRIEVED RELATES TO CALIBER AND ORDNANCE TYPES FOR THE PERIOD QUERIED.

3. QUERY

```
TITLE NG05R/05.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND QTYEX GT 0.
SORT SDATE 1/4,-        -,OPCOD,CALEX,ORTYP.
```

B. OUTPUT FOR NG05R

1. ATTACHED IS A MACHINE LISTING OF NG05R.

2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG05R.

3. NG05R PRODUCES 'TYPE AMMUNITION EXPENDITURE TOTALS'

```
CREATE RITID=NG05R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT, LINES 45
DEFINE AMT 10
DEFINE STORE1 11
DEFINE STORE2 12
DEFINE NG 'NAVAL GUNFIRE'
DEFINE SE 'SEA DRAGON'
DEFINE ST '              '
DEFINE SW 'A'
HEADER1, 082, '***SECRET***'
HEADER2, 012, 'REPORT NG05R'
SPACE 2
HEADER3, 013, NG IF SORT 16-17 EQ 'NG'
HEADER3, 010, SE IF SORT 16-17 EQ 'SE'
HEADER4, 010, 'DATA AS OF'
HEADER4, 013, SORT 8-9 IF SW EQ 'A'
HEADER4, 013, ST 5-6 IF SW EQ 'B'
HEADER4, 017, SORT 6-7 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST 3-4 TABLE MONTS IF SW EQ 'B'
HEADER4,020, '19'
HEADER4, 022, SORT 4-5 IF SW EQ 'A'
HEADER4, 022, ST 1-2 IF SW EQ 'B'
HEADER4, 027, 'THRU' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 027, 'THRU' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 030, SORT 14-15 IF SW EQ 'A'
HEADER4, 030, ST 11-12 IF SW EQ 'B'
HEADER4, 034, SORT 12-13 TABLE MONTS IF SW EQ 'A'
HEADER4, 034, ST 9-10 TABLE MONTS IF SW EQ 'B'
HEADER4, 037, '19' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 037, '19' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 039, SORT 10-11 IF SW EQ 'A'
HEADER4, 039, ST 7-8 IF SW EQ 'B'
HEADER4, 082, 'TYPE AMMUNITION EXPENDITURE TOTALS'
HEADER4, 114, 'DATE OF REPORT-'
HEADER4, 126, OPDATE
SPACE 2
HEADER6, 071, 'CALIBER                          ORDNANCE TYPE'
HEADER6, 107, 'AMOUNT EXPENDED'
HEADER7, 001  ' '
HEADER8, 001  ' '
COMPUTE AMT EQ TOTAL OF QTYEX
LINE1, IF SW EQ 'A'
LINE1, MOVE SORT 4-15 TO ST
```

```
LINE1, MOVE 'B' TO SW
LINE1A, IF SW EQ 'Z'
LINE5, SCAN
LINE5, IF SORT 4-26 COMPLETE
LINE5, 031, CALEX
LINE5, 067, ORTYP
LINE5, 103 AMT 4-10
LINE5 ADD AMT 5-10 TO STORE1
LINE5, RESET AMT
SPACE 2 BEFORE LINE10
LINE10, SCAN
LINE10, IF SORT 4-21 COMPLETE
LINE10, 058, 'TOTAL CALIBER'
LINE10, 063, CALEX
LINE10, 072, 'EXPENDED'
LINE10, 084, STORE1 4-11
LINE10, ADD STORE1 TO STORE2
LINE10, RESET STORE1
LINE30, IF SORT 4-30 COMPLETE
LINE30, MOVE 'A' TO SW
LINE30A, IF SW NE SW
SPACE 4 BEFORE FINALLINE1
FINALLINE1, 077, 'TOTAL AMMUNITION EXPENDED THIS PERIOD'
FINALLINE1, 091, STORE2 4-12
TRAILER1, 082, '***SECRET***'
TRAILER1, 125, 'PAGE'
TRAILER1, 132, PAGENO
END
```

[redacted] UNCLASSIFIED [redacted]

REPORT NG05R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

TYPE AMMUNITION EXPENDITURE TOTALS

DATE OF REPORT-DD MM YYYY

CALIBER	ORDNANCE TYPE	AMOUNT EXPENDED
XXXX	XXXXX	NNNNNNNN
XXXX	XXXXX	NNNNNNNN
XXXX	XXXXX	NNNNNNNN

TOTAL CALIBER XXXX EXPENDED NNNNNNNN

TOTAL AMMUNITION EXPENDED THIS PERIOD NNNNNNNNN

PAGE NNNNNNN

A. RETRIEVAL FOR NG07R

1. NG07R, REVISED MARCH, 1969

2. THE PURPOSE OF THE RETRIEVAL IS TO PROVIDE A LISTING OF GUNFIRE SUPPORT BY SHIP NAME. THE INFORMATION RETRIEVED RELATES TO A SPECIFIC SHIP GIVING THE NUMBER OF FIRINGS AND INITIAL ESTIMATES OF RESULTS FOR PERIOD QUERIED.

3. QUERY

```
TITLE NG07R/07.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE.
SORT UIC,SDATE,-N-,OPNAM 1/5,ARCOD,-A-,-          -.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND (LCODE EQ -O - OR EPKIL GT 0).
SORT UIC,SDATE,-N-,OPNAM 1/5,ARCOD,-B-,PARA3,-          -.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND QTYEX GT 0.
SORT UIC,SDATE,-N-,OPNAM 1/5,ARCOD,-C-,CALEX,ORTYP,SERES 3/3.
```

B. OUTPUT FOR NG07R

1. ATTACHED IS A MACHINE LISTING OF NG07R.

2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG07R.

3. NG07R PRODUCES 'GUNFIRE SUPPORT SUMMARY BY SHIP'.

```
CREATE RITID=NG07R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT LINES 42
DEFINE AC 'CORPS AREA'
DEFINE LB 'A'
DEFINE AMR 7
DEFINE NR 7
DEFINE NMR 3
DEFINE NS 3
DEFINE NT 3
DEFINE, MD 1
DEFINE, NC 1
DEFINE,NF  3
DEFINE LR '       '
DEFINE ST '       '
DEFINE RP 'ROUTE PKG'
DEFINE SW 'A'
DEFINE SE 'SEA DRAGON'
DEFINE NG 'NAVAL GUNFIRE'
DEFINE NK 3
+
HEADER1, 002, '***[redacted]***'
HEADER2, 012, 'REPORT NG07R'
SPACE 2
HEADER3, 013, NG IF SORT 16-16 EQ 'N'
HEADER3, 010, SE IF SORT 16-16 EQ 'S'
HEADER4, IF SORT 16-16 EQ 'S'
HEADER4, 010, 'DATA AS OF'
HEADER4, 013, SORT 8-9 IF SW EQ 'A'
HEADER4, 013, ST 5-6 IF SW EQ 'B'
HEADER4, 017, SORT 6-7 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST 3-4 TABLE MONTS IF SW EQ 'B'
HEADER4, 020, '19'
HEADER4, 022, SORT 4-5 IF SW EQ 'A'
HEADER4, 022, ST 1-2 IF SW EQ 'B'
HEADER4, 114, 'DATE OF REPORT-'
HEADER4, 126 OPDATE
HEADER5, IF SORT 16-16 EQ 'N'
HEADER5, 010,'DATA AS OF'
HEADER5, 013, SORT 14-15 IF LB EQ 'A'
HEADER5, 013, LR 5-6 IF LB EQ 'B'
HEADER5, 017, SORT 12-13 TABLE MONTS IF LB EQ 'A'
HEADER5, 020, '19'
HEADER5, 022, SORT 10-11 IF LB EQ 'A'
HEADER5, 022, LR 1-2 IF LB EQ 'B'
```

```
HEADER5, 114 'DATE OF REPORT-'
HEADER5, 126, OPDATE
HEADER6, 065, 'G-U-N-F-I-R-E  S-U-P-P-O-R-T'
HEADER6, 094, 'S-U-M-M-A-R-Y  B-Y  D-A-T-E' IF SORT 16-16 EQ 'S'
HEADER6, 094, 'S-U-M-M-A-R-Y  B-Y  S-H-I-P' IF SORT 16-16 EQ 'N'
SPACE 2
HEADER7, 106, '- - - - - ENEMY  - - - - -'
HEADER7, 111, 'AVE'
HEADER8, 025,'SHIP HULL'
HEADER8, 032, RP 1-5 IF SORT 16-16 EQ 'S'
HEADER8, 032, AC 1-5 IF SORT 16-16 EQ 'N'
HEADER8, 061, 'OPERATION   NO.  OF'
HEADER8, 089, '--AMMO EXPENDED-- PERSONNEL'
HEADER8, 112, 'STRUCTURES  MATL  MEAN'
HEADER8, 132, 'CASUALTIES  SERIES'
HEADER9, 011, 'FIRING SHIP'
HEADER9, 024, 'TYPE NO.'
HEADER9, 030, RP 7-9 IF SORT 16-16 EQ 'S'
HEADER9, 031, AC 7-10 IF SORT 16-16 EQ 'N'
HEADER9, 037, 'DATE'
HEADER9, 061, 'SUPPORTED   FIRINGS'
HEADER9, 078, 'CAL  TYPE  RNDS'
HEADER9, 100, 'KIA    DES    DMGD'
HEADER9, 120, 'DMGD  RANGE TO OWN'
HEADER9, 130, 'SHIP  NO.'
COMPUTE NMR EQ NMR + 1 IF RANGE NE  000  AND SORT 23-23 EQ 'C'          C
COMPUTE AND RANGE NOT EQ '    '
COMPUTE AMR EQ TOTAL OF RANGE IF SORT 23-23 EQ 'C'                      C
COMPUTE AND RANGE NOT EQ '    '
COMPUTE NK EQ TOTAL OF EPKIL IF SORT 23-23 EQ 'C'                       C
COMPUTE AND EPKIL NOT EQ '    '
COMPUTE NR EQ TOTAL OF QTYEX IF SORT 23-23 EQ 'C'                       C
COMPUTE AND QTYEX NOT EQ '      '
COMPUTE NS EQ TOTAL OF MLQTY IF MLDDD EQ 'DES' AND LCODE EQ 'D ' AND    C
COMPUTE SORT 23-23 EQ 'B' AND MLQTY NOT EQ '    '
COMPUTE NT EQ TOTAL OF MLQTY IF MLDDD EQ 'DAM' AND LCODE EQ 'D ' AND    C
COMPUTE SORT 23-23 EQ 'B'  AND MLQTY NOT EQ '    '
LINE1, IF SORT 16-16 EQ 'S' AND SW EQ 'A'
LINE1, MOVE SORT 4-9 TO ST
LINE1, MOVE 'B' TO SW
LINE1, IF SW EQ 'Z'
LINE2, IF SORT 16-16 EQ 'N' AND LB EQ 'A'
LINE2,  MOVE SORT 10-15 TO LR
LINE2, MOVE 'B' TO LB
LINE2, IF LB EQ 'Z'
LINE3 MOVE 000 TO NK IF NK LT 001
LINE3 MOVE 000 TO NS IF NS LT 001
LINE3 MOVE 000 TO NT IF NT LT 001
LINE3A IF NT NE NT
LINE4  IF RCTRL CHANGES AND SORT 23-23 EQ 'A'
LINE4 ADD 1 TO NF
LINE4A IF NF NE NF
LINE5 IF SORT 23-23 EQ 'A'
```

```
LINE5 RESET NC TO 1 IF DEDAF NE '    '
LINE5A IF NF NE NF
LINE6, IF SORT 23-23 EQ 'B'
LINE6 RESET MD TO 1 IF PSCT3 1-4 GT 0000
LINE6A IF MD NE MD
LINE8, IF SORT 16-16 EQ 'N' AND SORT 10-15 CHANGES
LINE8, 001, ' '
LINE9, IF SORT 16-16 EQ 'N' AND SORT 4-9 CHANGES
LINE9, 001, ' '
LINE12, SCAN
LINE12, IF SORT 4-33 COMPLETE AND SORT 23-23 EQ 'C'
LINE12, 016 SHPNM IF NF GT 0
LINE12,  021, SHPTP IF NF GT 0
LINE12, 026, HLLNO IF NF GT 0
LINE12, 029, ARCOD IF NF GT 0
LINE12,  032, SDATE 5-6 IF NF GT 0
LINE12, 036, SDATE 3-4 TABLE MONTS IF NF GT 0
LINE12, 039, SDATE 1-2 IF NF GT 0
LINE12, 053, OPNAM IF NF GT 0
LINE12, 059, NF IF NF GT 0
LINE12, 066, CALEX
LINE12, 072, ORTYP
LINE12, 081,NR
LINE12,086 NK IF NF GT 0
LINE12,093,NS IF NF GT 0
LINE12,099,NT IF NF GT 0
LINE12, 105, 'YES' IF MD EQ 1 AND NF GT 0
LINE12, 105, 'NO' IF MD EQ 0 AND NF GT 0
LINE12 112 AMR DIV NMR IF NMR GT 0
LINE12, 117, '00YDS'
LINE12, 120, 'NO' IF NC EQ 0 AND NF GT 0
LINE12, 121, 'YES' IF NC EQ 1 AND NF GT 0
LINE12, 130, SERES IF NF GT 0
LINE12, RESET AMR
LINE12, RESET NMR
LINE12, RESET MD TO 0
LINE12, RESET NC TO 0
LINE12, RESET NF TO 0
LINE12, RESET NK TO 0
LINE12, RESET NR TO 0
LINE12, RESET NS TO 0
LINE12, RESET NT TO 0
LINE30, IF SORT 4-33 COMPLETE AND SORT 16-16 EQ 'S'
LINE30, MOVE 'B' TO SW
LINE30A, IF SW NE SW
LINE31, IF SORT 4-33 COMPLETE AND SORT 16-16 EQ 'N'
LINE31, MOVE 'B' TO LB
LINE31A, IF SW NE SW
SPACE 3 BEFORE FINALLINE1
FINALLINE1 72 'END OF REPORT'
SPACE 2 BEFORE TRAILER1
TRAILER1, 082, '***SECRET***'
TRAILER1, 125, 'PAGE'
```

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REPORT NGO7R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

DATE OF REPORT-DD MMM YYYY

G-U-N-F-I-R-E S-U-P-P-O-R-T S-U-M-M-A-R-Y B-Y S-H-I-P

FIRING SHIP	SHIP HULL TYPE NO.	CORPS AREA	DATE	OPERATION SUPPORTED	NO. OF FIRINGS	AMMO EXPENDED CAL	AMMO EXPENDED TYPE	AMMO EXPENDED RNDS	PERSONNEL HIA	STRUCTURES DES	STRUCTURES DMGD	NATL DMGD	MEAN RANGE TO OWN SHIP	CASUALTIES	SERIES NO.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

END OF REPORT

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A. RETRIEVAL FOR NG08R.

1. NG08R REVISED MARCH, 1969

2. THE PURPOSE OF THE RETRIEVAL IS TO PROVIDE A SUMMARY OF FIRINGS BY DATE. THE INFORMATION RETRIEVED RELATES TO ORDNANCE EXPENDED BY CORPS AREA AND DAMAGE INFLICTED BY CORPS AREA, BY DATE, FOR A GIVEN PERIOD QUERIED.

3. QUERY

```
TITLE NG08R/08.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND QTYEX GT 0
AND  (EPKIL GT 0 OR LCODE EQ -0 - OR SDATE GT 0).
SORT SDATE 1/4,-        -,OPCOD,SDATE.
```

B. OUTPUT FOR NG08R.

1. ATTACHED IS A MACHINE LISTING OF NG08R.

2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG08R.

3. NG08R PRODUCES 'FIRINGS BY DATE'.

```
CREATE RITID=NG08R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT, LINES 45
DEFINE CA1 7
DEFINE CA2 7
DEFINE CA3 7
DEFINE CA4 7
DEFINE, RE1, 5
DEFINE,RE2,5
DEFINE,RE3,5
DEFINE,RE4,5
DEFINE,NE1, 3
DEFINE,NE2, 3
DEFINE,NE3, 3
DEFINE,NE4, 3
DEFINE,NA1, 3
DEFINE,NA2, 3
DEFINE,NA3, 3
DEFINE,NA4, 3
DEFINE S1 '
DEFINE KA, 16
DEFINE AKA, 16
DEFINE ANE1, 4
DEFINE ANE2, 4
DEFINE ANE3, 4
DEFINE ANE4, 4
DEFINE ANA1, 4
DEFINE ANA2, 4
DEFINE ANA3, 4
DEFINE ANA4, 4
DEFINE ACA1, 5
DEFINE ACA2, 5
DEFINE ACA3, 5
DEFINE ACA4, 5
DEFINE ARE1, 8
DEFINE ARE2, 8
DEFINE ARE3, 8
DEFINE ARE4, 8
DEFINE TC, 6
DEFINE TR, 6
DEFINE NG 'NAVAL GUNFIRE'
DEFINE SE 'SEA DRAGON'
DEFINE SW 'A'
DEFINE AC 'CORPS AREA'
```

```
DEFINE RP 'ROUTE PKG'
HEADER1, 082, '***S[redacted]***'
HEADER2, 012, 'REPORT NG08R'
SPACE 2
HEADER3, 013, NG IF SORT 16-17 EQ 'NG'
HEADER3, 010, SE IF SORT 16-17 EQ 'SE'
HEADER4, 010, 'DATA AS OF'
HEADER4, 013, SORT 8-9 IF SW EQ 'A'
HEADER4, 013, ST 5-6 IF SW EQ 'B'
HEADER4, 017, SORT 6-7 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST 3-4 TABLE MONTS IF SW EQ 'B'
HEADER4,020, '19'
HEADER4, 022, SORT 4-5 IF SW EQ 'A'
HEADER4, 022, ST 1-2 IF SW EQ 'B'
HEADER4, 027, 'THRU' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 027, 'THRU' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 030, SORT 14-15 IF SW EQ 'A'
HEADER4, 030, ST 11-12 IF SW EQ 'B'
HEADER4, 034, SORT 12-13 TABLE MONTS IF SW EQ 'A'
HEADER4, 034, ST 9-10 TABLE MONTS IF SW EQ 'B'
HEADER4, 037, '19' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 037, '19' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 039, SORT 10-11 IF SW EQ 'A'
HEADER4, 039, ST 7-8 IF SW EQ 'B'
HEADER4, 078, 'F-I-R-I-N-G-S  B-Y  D-A-T-E'
HEADER4, 114, 'DATE OF REPORT-'
HEADER4, 126, OPDATE
SPACE 2
HEADER4, 054, 'NO. FIRINGS / ROUNDS EXPENDED FOR'
HEADER5, 059, AC IF SORT 16-17 EQ 'NG'
HEADER5, 057, RP IF SORT 16-17 EQ 'SE'
HEADER6, 059, 'S' IF SORT 16-17 EQ 'NG'
HEADER6, 058, 'S' IF SORT 16-17 EQ 'SE'
HEADER6 081  AC IF SORT 16-17 EQ 'NG'
HEADER6 095  AC IF SORT 16-17 EQ 'NG'
HEADER6 111  AC IF SORT 16-17 EQ 'NG'
HEADER6 125  AC IF SORT 16-17 EQ 'NG'
HEADER6 080  RP IF SORT 16-17 EQ 'SE'
HEADER6 094  RP IF SORT 16-17 EQ 'SE'
HEADER6 110  RP IF SORT 16-17 EQ 'SE'
HEADER6, 083, '1'
HEADER6, 097, '2'
HEADER6, 113, '3'
HEADER6 124  RP IF SORT 16-17 EQ 'SE'
HEADER6, 127, '4'
HEADER7, 114, 'STRUCTURES     STRUCTURES     STRUCTURES'
HEADER7, 129, 'STRUCTURES'
HEADER8, 004, 'DATE'
HEADER8 019  AC IF SORT 16-17 EQ 'NG'
HEADER8 034  AC IF SORT 16-17 EQ 'NG'
HEADER8 049  AC IF SORT 16-17 EQ 'NG'
HEADER8 064  AC IF SORT 16-17 EQ 'NG'
HEADER8 018 RP IF SORT 16-17 EQ 'SE'
```

```
HEADER8 033 RP IF SORT 16-17 EQ 'SE'
HEADER8 048 RP IF SORT 16-17 EQ 'SE'
HEADER8 063 RP IF SORT 16-17 EQ 'SE'
HEADER8, 021, '1'
HEADER8, 036, '2'
HEADER8, 051, '3'
HEADER8, 066, '4'
HEADER8, 113, 'KIA  DES  DAM  KIA  DES  DAM  KIA  DES  DAM'
HEADER8, 128, 'KIA  DES  DAM'
HEADER9, 001, ' '
*USE CA1 THRU CA4 FOR PERCENT IN AREA FOR NO. FIRINGS
*USE RE1 THRU RE4 FOR PERCENT IN AREA FOR  ROUNDS EXPENDED
*USE ACA1 THRU ACA3 FOR GRAND TOTALS FOR KIA, DES, DAM
COMPUTE CA1 EQ COUNT OF UIC IF ARCOD EQ '1'
COMPUTE CA2 EQ COUNT OF UIC IF ARCOD EQ '2'
COMPUTE CA3 EQ COUNT OF UIC IF ARCOD EQ '3'
COMPUTE CA4 EQ COUNT OF UIC IF ARCOD EQ '4'
COMPUTE RE1 EQ TOTAL OF QTYEX IF ARCOD EQ '1'                          C
COMPUTE AND QTYEX NOT EQ '     '
COMPUTE RE2 EQ TOTAL OF QTYEX IF ARCOD EQ '2'                          C
COMPUTE AND QTYEX NOT EQ '     '
COMPUTE RE3 EQ TOTAL OF QTYEX IF ARCOD EQ '3'                          C
COMPUTE AND QTYEX NOT EQ '     '
COMPUTE RE4 EQ TOTAL OF QTYEX IF ARCOD EQ '4'                          C
COMPUTE AND QTYEX NOT EQ '     '
COMPUTE NE1 EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDDD EQ 'DES' AND  C
COMPUTE ARCOD EQ '1' AND MLQTY NOT EQ '    '
COMPUTE NE2 EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDDD EQ 'DES' AND  C
COMPUTE ARCOD EQ '2' AND MLQTY NOT EQ '    '
COMPUTE NE3 EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDDD EQ 'DES' AND  C
COMPUTE ARCOD EQ '3' AND MLQTY NOT EQ '    '
COMPUTE NE4 EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDDD EQ 'DES' AND  C
COMPUTE ARCOD EQ '4' AND MLQTY NOT EQ '    '
COMPUTE NA1 EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDDD EQ 'DAM' AND  C
COMPUTE ARCOD EQ '1' AND MLQTY NOT EQ '    '
COMPUTE NA2 EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDDD EQ 'DAM' AND  C
COMPUTE ARCOD EQ '2' AND MLQTY NOT EQ '    '
COMPUTE NA3 EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDDD EQ 'DAM' AND  C
COMPUTE ARCOD EQ '3' AND MLQTY NOT EQ '    '
COMPUTE NA4 EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDDD EQ 'DAM' AND  C
COMPUTE ARCOD EQ '4' AND MLQTY NOT EQ '    '
COMPUTE CA1 EQ CA1 & 0
COMPUTE CA2 EQ CA2 & 0
COMPUTE CA3 EQ CA3 & 0
COMPUTE CA4 EQ CA4 & 0
COMPUTE RE1 EQ RE1 & 0
COMPUTE RE2 EQ RE2 & 0
COMPUTE RE3 EQ RE3 & 0
COMPUTE RE4 EQ RE4 & 0
COMPUTE KA 1-4 EQ KA 1-4 & 0
COMPUTE KA 5-8 EQ KA 5-8 & 0
COMPUTE KA 9-12 EQ KA 9-12 & 0
COMPUTE KA 13-16 EQ KA 13-16 & 0
```

```
COMPUTE NE1 EQ NE1 & 0
COMPUTE NE2 EQ NE2 & 0
COMPUTE NE3 EQ NE3 & 0
COMPUTE NE4 EQ NE4 & 0
COMPUTE NA1 EQ TO NA1 & 0
COMPUTE NA2 EQ TO NA2 & 0
COMPUTE NA3 EQ TO NA3 & 0
COMPUTE NA4 EQ TO NA4 & 0
LINE1, IF SW EQ 'A'
LINE1, MOVE SORT 4-15 TO ST
LINE1, MOVE 'B' TO SW
LINE1A IF SW NE SW
LINE3, ALL
LINE3, ADD EPKIL TO KA 1-4 IF ARCOD EQ '1' AND EPKIL NOT EQ '   '
LINE3, ADD EPKIL TO KA 5-8 IF ARCOD EQ '2' AND EPKIL NOT EQ '   '
LINE3, ADD EPKIL TO KA 9-12 IF ARCOD EQ '3' AND EPKIL NOT EQ '   '
LINE3, ADD EPKIL TO KA 13-16 IF ARCOD EQ '4' AND EPKIL NOT EQ '   '
LINE3A, IF CA1 NE CA1
LINE6, IF SDATE COMPLETE
LINE6, 006, SDATE
LINE6 12 CA1 5-7 EDIT ' 0 '
LINE6 13 '/'
LINE6 27 CA2 5-7 EDIT ' 0 '
LINE6 28 '/'
LINE6, 42, CA3, 5-7 EDIT ' 0 '
LINE6 43 '/'
LINE6, 57, CA4 5-7  EDIT ' 0 '
LINE6 58 '/'
LINE6, 071, RE1  EDIT '   0 '
LINE6, 036, RE2 EDIT '   0 '
LINE6, 051, RE3   EDIT '   0 '
LINE6, 066, RE4 EDIT '   0 '
LINE6,073, KA 1-4  EDIT '  0 '
LINE6,088, KA 5-8  EDIT '  0 '
LINE6,103, KA 9-12 EDIT '  0 '
LINE6,118,KA 13-16  EDIT '  0 '
LINE6,078, NE1  EDIT ' 0 '
LINE6,093,NE2 EDIT ' 0 '
LINE6,108,NE3 EDIT ' 0 '
LINE6,123,NE4  EDIT ' 0 '
LINE6, 083, NA1 EDIT ' 0 '
LINE6, 098, NA2  EDIT ' 0 '
LINE6, 113, NA3  EDIT ' 0 '
LINE6, 128, NA4 EDIT ' 0 '
LINE6 ADD CA1 4-7 TO ACA1
LINE6 ADD CA2 4-7 TO ACA2
LINE6 ADD CA3 4-7 TO ACA3
LINE6 ADD CA4 4-7 TO ACA4
LINE6, ADD RE1 TO ARE1
LINE6, ADD RE2 TO ARE2
LINE6, ADD RE3 TO ARE3
LINE6, ADD RE4 TO ARE4
LINE6 ADD KA  1-4 TO AKA   1-4
```

```
LINE6 ADD KA  5-8 TO AKA   5-8
LINE6 ADD KA 9-12 TO AKA  9-12
LINE6 ADD KA 13-16 TO AKA 13-16
LINE6, ADD NE1 TO ANE1
LINE6, ADD NE2 TO ANE2
LINE6, ADD NE3 TO ANE3
LINE6, ADD NE4 TO ANE4
LINE6, ADD NA1 TO ANA1
LINE6, ADD NA2 TO ANA2
LINE6, ADD NA3 TO ANA3
LINE6, ADD NA4 TO ANA4
LINE6, RESET CA1 TO 0
LINE6, RESET CA2 TO 0
LINE6, RESET CA3 TO 0
LINE6, RESET CA4 TO 0
LINE6, RESET RE1 TO 0
LINE6, RESET RE2 TO 0
LINE6, RESET RE3 TO 0
LINE6, RESET RE4 TO 0
LINE6, RESET KA TO 0
LINE6, RESET NE1 TO 0
LINE6, RESET NE2 TO 0
LINE6, RESET NE3 TO 0
LINE6, RESET NE4 TO 0
LINE6, RESET NA1 TO 0
LINE6, RESET NA2 TO 0
LINE6, RESET NA3 TO 0
LINE6, RESET NA4 TO 0
SPACE 3 BEFORE TABLE14
TABLE14A, 006, 'TOTAL'
LINE14, IF SDATE 3-4 COMPLETE
LINE14, 005, 'FOR'
LINE14, 012, ACA1  EDIT '   0 '
LINE14 13 '/'
LINE14, 027, ACA2  EDIT '   0 '
LINE14 28 '/'
LINE14, 042, ACA3  EDIT '   0 '
LINE14 43 '/'
LINE14, 057, ACA4  EDIT '   0 '
LINE14 58 '/'
LINE14, 021, ARE1   EDIT '      0 '
LINE14, 036, ARE2 EDIT '      0 '
LINE14, 051, ARE3  EDIT '      0 '
LINE14, 066, ARE4  EDIT '      0 '
LINE14, 073, AKA 1-4 EDIT '  0 '
LINE14, 088, AKA 5-8  EDIT '  0 '
LINE14, 103 AKA 9-12 EDIT '  0 '
LINE14, 118 AKA 13-16 EDIT '  0 '
LINE14, 078 ANE1  EDIT '  0 '
LINE14, 093, ANE2  EDIT '  0 '
LINE14, 108, ANE3     EDIT '  0 '
LINE14, 083, ANA1    EDIT '  0 '
LINE14, 098, ANA2    EDIT '  0 '
```

```
LINE14, 113, ANA3    EDIT '  0 '
LINE14, 123, ANE4   EDIT '  0 '
LINE14, 128, ANA4  EDIT '  0 '
LINE15, IF SDATE 3-4 COMPLETE
LINE15, 007, 'PERIOD'
LABEL16, 001,' '
LINE16, IF SDATE 3-4 COMPLETE
LINE16, 106, 'KIA       DES       DAM'
LINE17, IF SDATE 1-4 COMPLETE
LINE17, 009, 'PER CENT'
LINE17, COMPUTE TC   EQ ACA1 & ACA2 & ACA3 & ACA4
LINE17, COMPUTE CA1 EQ ACA1 * 100 / TC IF TC GT 0
LINE17, COMPUTE CA2 EQ ACA2 * 100 / TC IF TC GT 0
LINE17, COMPUTE CA3 EQ ACA3 * 100 / TC IF TC GT 0
LINE17, COMPUTE CA4 EQ ACA4 * 100 / TC IF TC GT 0
LINE17, COMPUTE TR   EQ ARE1 & ARE2 & ARE3 & ARE4
LINE17, COMPUTE RE1 EQ ARE1 * 100 / TR IF TR GT 0
LINE17, COMPUTE RE2 EQ ARE2 * 100 / TR IF TR GT 0
LINE17, COMPUTE RE3 EQ ARE3 * 100 / TR IF TR GT 0
LINE17, COMPUTE RE4 EQ ARE4 * 100 / TR IF TR GT 0
LINE17, 12 CA1 4-6 EDIT ' 0 '
LINE17 13 '/'
LINE17, 27, CA2 4-6 EDIT ' 0 '
LINE17 28 '/'
LINE17, 42, CA3 4-6 EDIT ' 0 '
LINE17 43 '/'
LINE17, 57, CA4 4-6 EDIT ' 0 '
LINE17 58 '/'
LINE17, 018, RE1 EDIT '   0 '
LINE17, 033, RE2 EDIT '   0 '
LINE17, 048, RE3 EDIT '   0 '
LINE17, 063, RE4 EDIT '   0 '
LINE17, 073, 'GRAND'
LINE17, COMPUTE ACA1 EQ AKA 1-4 & AKA 5-8 & AKA 9-12 & AKA 13-16
LINE17, COMPUTE ACA2 EQ ANE1 & ANE2 & ANE3 & ANE4
LINE17, COMPUTE ACA3 EQ ANA1 & ANA2 & ANA3 & ANA4
LINE17, 087, ACA1 EDIT '   0 '
LINE17, 097, ACA2 EDIT '   0 '
LINE17, 107, ACA3 EDIT '   0 '
LINE18, IF SDATE 3-4 COMPLETE
LINE18,011, 'MSNS/AMMO'
LINE18, 073, 'TOTAL'
LINE18, RESET ACA1
LINE18, RESET ACA2
LINE18, RESET ACA3
LINE18, RESET ACA4
LINE18, RESET ARE1
LINE18, RESET ARE2
LINE18, RESET ARE3
LINE18, RESET ARE4
LINE18, RESET AKA
LINE18, RESET ANE1
LINE18, RESET ANE2
```

```
LINE18, RESET ANE3
LINE18, RESET ANE4
LINE18, RESET ANA1
LINE18, RESET ANA2
LINE18, RESET ANA3
LINE18, RESET ANA4
LINE18, RESET CA1
LINE18, RESET CA2
LINE18, RESET CA3
LINE18, RESET CA4
LINE18, RESET RE1
LINE18, RESET RE2
LINE18, RESET RE3
LINE18, RESET RE4
LINE19, IF SDATE 3-4 COMPLETE
LINE19 16 'IN AREA'
EJECT BEFORE LINE20 IF SDATE 3-4 COMPLETE
LINE20, IF SDATE 1-4 COMPLETE
LINE20, 001, ' '
LINE30, IF SORT 4-23 COMPLETE
LINE30, MOVE 'A' TO SW
LINE30A, IF SW NE SW
TRAILER1, 082, '***S~~ECRET~~***'
TRAILER1, 120, 'PAGE NO.'
TRAILER1, 132, PAGENO
END
```

REPORT MGOER

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

F-I-R-I-N-G-S E-Y D-A-T-E

DATE OF REPORT-DD MMM YYYY

A. RETRIEVAL FOR NG09R.

1. NG09R, REVISED MARCH, 1969.

2. THE PURPOSE OF THE RETRIEVAL IS TO SHOW TOTALS OF ORDNANCE EXPENDED BY CORPS AREA. THE INFORMATION RETRIEVED RELATES TO ORDNANCE TYPES BY CORPS AREA FOR PERIOD QUERIED.

3. QUERY

```
TITLE NG09R/09.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND QTYEX GT 0.
SORT SDATE 1/4,-        -,OPCOD,ARCOD,CALEX,ORTYP.
```

B. OUTPUT FOR NG09R.

1. ATTACHED IS A MACHINE LISTING OF NG09R.

2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG09R.

3. NG09R PRODUCES 'TYPE AMMUNITION EXPENDITURE TOTALS'.

```
CREATE RITID=NG09R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT, LINES 45
DEFINE CAREA ' '
DEFINE AC 'CORPS AREA'
DEFINE RP 'ROUTE PKG'
DEFINE NG 'NAVAL GUNFIRE'
DEFINE SE 'SEA DRAGON'
DEFINE ST '              '
DEFINE SW 'A'
DEFINE AMT 7
DEFINE CALET '    '
DEFINE ARCOT ' '
DEFINE STORE1 8
DEFINE STORE2 9
DEFINE STORE3 9
*
HEADER1, 082, '***[redacted]***'
HEADER2, 012, 'REPORT NG09R'
SPACE 2
HEADER3, 013, NG IF SORT 16-17 EQ 'NG'
HEADER3, 010, SE IF SORT 16-17 EQ 'SE'
HEADER4, 010, 'DATA AS OF'
HEADER4, 013, SORT 8-9 IF SW EQ 'A'
HEADER4, 013, ST 5-6 IF SW EQ 'B'
HEADER4, 017, SORT 6-7 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST 3-4 TABLE MONTS IF SW EQ 'B'
HEADER4,020, '19'
HEADER4, 022, SORT 4-5 IF SW EQ 'A'
HEADER4, 022, ST 1-2 IF SW EQ 'B'
HEADER4, 027, 'THRU' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 027, 'THRU' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 030, SORT 14-15 IF SW EQ 'A'
HEADER4, 030, ST 11-12 IF SW EQ 'B'
HEADER4, 034, SORT 12-13 TABLE MONTS IF SW EQ 'A'
HEADER4, 034, ST 9-10 TABLE MONTS IF SW EQ 'B'
HEADER4, 037, '19' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 037, '19' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 039, SORT 10-11 IF SW EQ 'A'
HEADER4, 039, ST 7-8 IF SW EQ 'B'
HEADER4, 082, 'TYPE AMMUNITION EXPENDITURE TOTALS'
HEADER4, 114, 'DATE OF REPORT-'
HEADER4, 126, OPDATE
SPACE 2
HEADER6, 010, AC IF SORT 16-17 EQ 'NG'
```

```
HEADER6, 009, RP IF SORT 16-17 EQ 'SE'
HEADER7, 023, 'CALIBER'
HEADER7, 049, 'ORDNANCE TYPE'
HEADER7, 073, 'AMOUNT EXPENDED'
COMPUTE AMT EQ TOTAL OF QTYEX
MOVE CALEX TO CALET
MOVE ARCOD TO ARCOT
LINE1, IF SW EQ 'A'
LINE1, MOVE SORT 4-15 TO ST
LINE1, MOVE 'B' TO SW
LINE1, IF SW EQ 'Z'
LINE3, SCAN
LINE3 IF SORT 4-27 COMPLETE
LINE3 MOVE ARCOT TO CAREA
LINE3 005 ARCOD IF ARCOD CHANGES
LINE3,021,CALET
LINE3, 044, ORTYP
LINE3, 069, AMT
LINE3, ADD AMT TO STORE1
LINE3, RESET AMT
LABEL18,001,' '
LINE18, SCAN
LINE18 IF SORT 19-22 COMPLETE OR SORT 18-18 COMPLETE
LINE18, 087, 'TOTAL CALIBER'
LINE18, 092, CALET
LINE18, 103, 'EXPENDED -'
LINE18, 113, STORE1
LINE18, ADD STORE1 TO STORE2
LINE18, RESET STORE1
SPACE 3 BEFORE LINE21
LINE21 IF SORT 18-18 COMPLETE
LINE21, 066, 'TOTAL ORDNANCE EXPENDED IN'
LINE21, 077, AC IF SORT 16-17 EQ 'NG'
LINE21, 077  RP IF SORT 16-17 EQ 'SE'
LINE21, 079, CAREA
LINE21, 093, 'THIS PERIOD -'
LINE21, 104, STORE2
LINE21, ADD STORE2 TO STORE3
LINE21, RESET STORE2
EJECT BEFORE LINE30 IF SORT 18-18 COMPLETE
LINE30, IF SORT 4-9 COMPLETE
LINE30, MOVE 'A' TO SW
LINE30A, IF SW NE SW
SPACE 4 BEFORE FINALLINE1
FINALLINE1, 077, 'TOTAL ORDANCE EXPENDED THIS PERIOD (ALL AREAS) -'
FINALLINE1, 087, STORE3
SPACE 2
TRAILER1, 082, '***[redacted]***'
TRAILER1, 125, 'PAGE'
TRAILER1, 132, PAGENO
END
```

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[redacted] UNCLASSIFIED [redacted]

REPORT MC09R

NAVAL GUNFIRE
DATA AS OF DD MON YYYY THRU DD MON YYYY

TYPE AMMUNITION EXPENDITURE TOTALS

DATE OF REPORT-DD MON YYYY

CORPS AREA

X	CALIBER XXXX	ORDNANCE TYPE XXXXX	AMOUNT EXPENDED XXXXXXX

TOTAL CALIBER XXXX EXPENDED - XXXXXXXX

TOTAL ORDNANCE EXPENDED IN CORPS AREA X THIS PERIOD - XXXXXXXXX

TOTAL ORDNANCE EXPENDED THIS PERIOD ALL AREAS - XXXXXXXXX

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A. RETRIEVAL FOR NG10R

1. NG10R, REVISED MARCH, 1969

2. THE PURPOSE OF THE RETRIEVAL IS TO SHOW TOTALS OF ORDNANCE EXPENDED BY SHIP TYPE FOR A CORPS AREA. INFORMATION RETRIEVED RELATES TO ORDNANCE TYPES BY SHIP TYPE AND CORPS AREA FOR PERIOD QUERIED.

3. QUERY

```
TITLE NG10R/10.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND QTYEX GT 0.
SORT SDATE 1/4,-        -,OPCOD,ARCOD,SHPTP,CALEX,ORTYP.
```


NARA Reference Copy Page #175

B. OUTPUT FOR NG10R.

1. ATTACHED IS A MACHINE LISTING OF NG10R

2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG10R.

3. NG10R PRODUCES 'TYPE AMMUNUTION EXPENDITURE TOTALS'.

```
CREATE RITID=NG10R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT, LINES 45
DEFINE CTR '0'
DEFINE CAREA ' '
DEFINE AC 'CORPS AREA'
DEFINE RP 'ROUTE PKG'
DEFINE NG 'NAVAL GUNFIRE'
DEFINE SE 'SEA DRAGON'
DEFINE ST '              '
DEFINE SW 'A'
DEFINE AMT 10
DEFINE     STORE1 11
DEFINE     STORE2 12
DEFINE     STORE3 13
*
HEADER1, 082, '***[redacted]***'
HEADER2, 012, 'REPORT NG10R'
SPACE 2
HEADER3, 013, NG IF SORT 16-17 EQ 'NG'
HEADER3, 010, SE IF SORT 16-17 EQ 'SE'
HEADER4, 010, 'DATA AS OF'
HEADER4, 013, SORT 8-9 IF SW EQ 'A'
HEADER4, 013, ST 5-6 IF SW EQ 'B'
HEADER4, 017, SORT 6-7 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST 3-4 TABLE MONTS IF SW EQ 'B'
HEADER4,020, '19'
HEADER4, 022, SORT 4-5 IF SW EQ 'A'
HEADER4, 022, ST 1-2 IF SW EQ 'B'
HEADER4, 027, 'THRU' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 027, 'THRU' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 030, SORT 14-15 IF SW EQ 'A'
HEADER4, 030, ST 11-12 IF SW EQ 'B'
HEADER4, 034, SORT 12-13 TABLE MONTS IF SW EQ 'A'
HEADER4, 034, ST 9-10 TABLE MONTS IF SW EQ 'B'
HEADER4, 037, '19' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 037, '19' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 039, SORT 10-11 IF SW EQ 'A'
HEADER4, 039, ST 7-8 IF SW EQ 'B'
HEADER4, 082, 'TYPE AMMUNITION EXPENDITURE TOTALS'
HEADER4, 114, 'DATE OF REPORT-'
HEADER4, 126, OPDATE
SPACE 2
HEADER6, 010, AC IF SORT 16-17 EQ 'NG'
```

```
HEADER6, 009, RP IF SORT 16-17 EQ 'SE'
HEADER7, 023, 'SHIP TYPE'
HEADER7, 071, 'CALIBER     ORDNANCE TYPE     AMOUNT EXPENDED'
COMPUTE AMT EQ TOTAL OF QTYEX
LINE1, IF SW EQ 'A'
LINE1, MOVE SORT 4-15 TO ST
LINE1, MOVE 'B' TO SW
LINE1, IF SW EQ 'Z'
LINE3, IF ARCOD CHANGES
LINE3, MOVE ARCOD TO CAREA
LINE3, 005, ARCOD IF PAGENO EQ  000001
EJECT BEFORE LINE6 IF SORT 4-18 CHANGES AND CTR EQ '1'
LINE6 IF SORT 4-18 CHANGES OR PAGENO CHANGES
LINE6, 005, ARCOD IF PAGENO NE  000001
LINE9, IF SORT 18-22 CHANGES
LINE9, 021, SHPTP
LINE15, SCAN
LINE15, IF SORT 19-31 COMPLETE
LINE15, 031, CALEX
LINE15, 046, ORTYP
LINE15, 067, AMT 4-10
LINE15, ADD AMT TO STORE1
LINE15, RESET AMT
SPACE 2 BEFORE LINE18
LINE18, SCAN
LINE18, IF SORT 4-26 COMPLETE
LINE18, 087, 'TOTAL CALIBER'
LINE18, 092, CALEX
LINE18, 103, 'EXPENDED -'
LINE18, 113, STORE1 4-11
LINE18, ADD STORE1 TO STORE2
LINE18, MOVE '1' TO CTR
LINE18, RESET STORE1
LINE19, IF SORT 4-26 COMPLETE
LINE19 1 ' '
LINE20, IF SORT 4-26 COMPLETE
LINE20 1 ' '
SPACE 2 BEFORE LINE21
LINE21, IF ARCOD COMPLETE
LINE21, 066, 'TOTAL ORDNANCE EXPENDED IN'
LINE21, 077, AC IF SORT 16-17 EQ 'NG'
LINE21, 077, RP IF SORT 16-17 EQ 'SE'
LINE21, 079, CAREA
LINE21, 093, 'THIS PERIOD -'
LINE21, 104, STORE2 4-12
LINE21, ADD STORE2 TO STORE3
LINE21, RESET STORE2
LINE30, IF SORT 4-9 COMPLETE
LINE30, MOVE 'A' TO SW
LINE30A, IF SW NE SW
SPACE 4 BEFORE FINALLINE1
FINALLINE1, 077, 'TOTAL ORDANCE EXPENDED THIS PERIOD (ALL AREAS) -'
FINALLINE1, 087, STORE3 4-13
```

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```
TRAILER1, 082, '***[redacted]***'
TRAILER1, 125, 'PAGE'
TRAILER1, 132, PAGENO
END
```

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REPORT NO10R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY . . TYPE AMMUNITION EXPENDITURE TOTALS DATE OF REPORT-DD MMM YYYY

CORPS AREA	SHIP TYPE	CALIBER	ORDNANCE TYPE	AMOUNT EXPENDED
X	X			
	XXXX	XXXX	XXXXX	XXXXXXX
X				
	XXXX	XXXX	XXXXX	XXXXXXX

TOTAL CALIBER XXXX EXPENDED - XXXXXXXX

TOTAL ORDNANCE EXPENDED IN CORPS AREA X THIS PERIOD - XXXXXXXXX

TOTAL ORDNANCE EXPENDED THIS PERIOD ALL AREAS - XXXXXXXXX

PAGE XXXXXXX

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[illegible]

1. NG12R REVISED MARCH, 1969.

2. THE PURPOSE OF THE RETRIEVAL IS TO LIST AIRCRAFT SUPPORT DATA. THE TYPE OF INFORMATION RETRIEVED IS AIRCRAFT TYPE, SPOTTING INFORMATION AND ORDNANCE EXPENDED FOR THE PERIOD QUERIED.

3. QUERY

```
TITLE NG12R/12.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND ARCOD BT 1/4
AND (NACFT GT 0 OR TSORT GT 0 OR NSEXP GT 0).
SORT SDATE 1/4,-        -,OPCOD,ARCOD,ACTYP.
```


UNCLASSIFIED

B. OUTPUT FOR NG12R.

1. ATTACHED IS A MACHINE LISTING OF NG12R.

2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG12R.

3. NG12R PRODUCES 'AIRCRAFT SUPPORT FOR NAVAL OPERATIONS'.

```
CREATE RITID=NG12R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT, LINES 50
DEFINE     NA 4
DEFINE     TS 4
DEFINE     NS 4
DEFINE     TNS 5
DEFINE     TTS 5
DEFINE     TNA 5
DEFINE     GTNS 7
DEFINE     GTNA 7
DEFINE     GTTS 7
DEFINE NG 'NAVAL GUNFIRE'
DEFINE SE 'SEA DRAGON'
DEFINE ST '            '
DEFINE SW 'A'
DEFINE AC 'CORPS AREA'
DEFINE RP 'ROUTE PKG'
*
HEADER1, 082, '***[redacted]***'
HEADER2, 012, 'REPORT NG12R'
SPACE 2
HEADER3, 010, SE IF SORT 16-17 EQ 'SE'
HEADER3, 013, NG IF SORT 16-17 EQ 'NG'
HEADER4, 010, 'DATA AS OF'
HEADER4, 013, SORT 8-9 IF SW EQ 'A'
HEADER4, 013, ST 5-6 IF SW EQ 'B'
HEADER4, 017, SORT 6-7 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST 3-4 TABLE MONTS IF SW EQ 'B'
HEADER4, 020, '19'
HEADER4, 022, SORT 4-5 IF SW EQ 'A'
HEADER4, 022, ST 1-2 IF SW EQ 'B'
HEADER4, 027, 'THRU' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 027, 'THRU' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 030, SORT 14-15 IF SW EQ 'A'
HEADER4, 030, ST 11-12 IF SW EQ 'B'
HEADER4, 034, SORT 12-13 TABLE MONTS IF SW EQ 'A'
HEADER4, 034, ST 9-10 TABLE MONTS IF SW EQ 'B'
HEADER4, 037, '19' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 037, '19' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 039, SORT 10-11 IF SW EQ 'A'
HEADER4, 039, ST 7-8 IF SW EQ 'B'
HEADER4, 114, 'DATE OF REPORT-'
HEADER4, 126, OPDATE
HEADER5, 061, 'A-I-R-C-R-A-F-T  S-U-P-P-O-R-T'
```

```
HEADER5, 079, 'F-O-R  N-A-V-A-L'
HEADER5, 100, 'O-P-E-R-A-T-I-O-N-S'
SPACE 2
HEADER6, 042, 'AIRCRAFT'
HEADER6, 068, 'AIRCRAFT'
HEADER6, 094,'SORTIES'
HEADER7, 047, 'SORTIES AVAILABLE'
HEADER7, 072, 'SPOTTING SORTIES'
HEADER7, 100, 'EXPENDING ORDNANCE'
HEADER8, 019, AC IF SORT 16-17 EQ 'NG'
HEADER8, 018, RP IF SORT 16-17 EQ 'SE'
HEADER8, 045, 'TYPE        NO.'
HEADER8, 071, 'TYPE         NO.'
HEADER8, 099, 'TYPE         NO.'
HEADER9, 001 ' '
COMPUTE NA EQ TOTAL OF NACFT IF NACFT NOT EQ '  '
COMPUTE TS EQ TOTAL OF TSORT IF TSORT NOT EQ '  '
COMPUTE NS EQ TOTAL OF NSEXP IF NSEXP NOT EQ '  '
LINE1, IF SW EQ 'A'
LINE1, MOVE SORT 4-15 TO ST
LINE1, MOVE 'B' TO SW
LINE9, SCAN
LINE9, IF SORT 4-24 COMPLETE
LINE9, 014, ARCOD
LINE9, 036, ACTYP
LINE9, 046, NA
LINE9, 061, ACTYP IF TS NE 0000
LINE9, 072, TS
LINE9, 088, ACTYP IF NS NE 0000
LINE9, 100, NS
LINE9, ADD NA TO TNA
LINE9, ADD TS TO TTS
LINE9, ADD NS TO TNS
LINE9, RESET NA
LINE9, RESET TS
LINE9, RESET NS
LINE15, SCAN
LINE15, IF ARCOD COMPLETE
LINE15, 022, 'TOTAL SORTIES'
LINE15,046, TNA
LINE15, 072, TTS
LINE15, 100, TNS
LINE15, ADD TNA TO GTNA
LINE15, ADD TTS TO GTTS
LINE15, ADD TNS TO GTNS
LINE15, RESET TNA
LINE15, RESET TTS
LINE15, RESET TNS
FINALLINE6, 027, 'TOTAL SORTIES FOR ALL AREAS'
FINALLINE6, 046, GTNA
FINALLINE6, 072, GTTS
FINALLINE6, 100 GTNS
SPACE 3
```

```
TRAILER1, 082, '***[redacted]T***'
TRAILER1, 125, 'PAGE'
TRAILER1, 132, PAGENO
END
```


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UNCLASSIFIED

REPORT NG12R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY DATE OF REPORT-DD MMM YYYY
A-I-R-C-R-A-F-T S-U-P-P-O-R-T F-O-R N-A-V-A-L O-P-E-R-A-T-I-O-N-S

	AIRCRAFT SUPPLIES AVAILABLE		AIRCRAFT SPOTTING SORTIES		SORTIES EXPENDING ORDNANCE	
GRIDS AREA	TYPE	NO.	TYPE	NO.	TYPE	NO.
X	XXXX	NNN	XXXX	NNNN	XXXX	NNNN
Y	XXXXXX	NNNNN	XXXXXX	NNNNN	XXXXXX	NNNNN
TOTAL SORTIE		NNNNN		NNNNN		NNNNN
TOTAL SORTIES FOR ALL AREAS		NNNNNN		NNNNNN		NNNNNN

PAGE NNNNNN

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A. RETRIEVAL FOR NG20R.

1. NG20R REVISED MARCH,1969.
2. THE PURPOSE OF THE RETRIEVAL IS TO PROVIDE A SUMMARY OF DATA BY CORPS AREA FOR A CALENDAR QUARTER. THE INFORMATION RETRIEVED RELATES TO FIRINGS, EXPENDITURES AND RESULTS FOR A CALENDAR QUARTER.
3. QUERY

```
TITLE NG20R/20.
IF SDATE BT 681201/681231
AND OPCOD EQ NG
AND ARCOD BT 1/4
AND QTYEX GT 0.
SORT -A-,ARCOD,SDATE 1/4,-        -,-A.
IF SDATE BT 681201/681231
AND OPCOD EQ SE
AND ARCOD BT 1/4
AND QTYEX GT 0.
SORT -B-,ARCOD,SDATE 1/4,-        -,-B-.
IF SDATE BT 681201/681231
AND OPCOD EQ NG
AND ARCOD BT 1/4
AND QTYEX GT 0.
SORT -A-,ARCOD,SDATE 1/4,-        -,-A-.
IF SDATE BT 681201/681231
AND OPCOD EQ SE
AND ARCOD BT 1/4
AND (LCODE EQ -0- OR SDATE GT 0).
SORT -B-,ARCOD,SDATE 1/4,-        -,-A-.
```

B. OUTPUT FOR NG20R.
1. ATTACHED IS A MACHINE LISTING OF NG20R.
2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG20R.
3. NG20R PRODUCES 'NAVAL GUNFIRE UTILIZATION SVN BY RVN CORPS AREA'.
'NAVAL GUNFIRE UTILIZATION NVN BY ROUTE PACKAGE'.

```
CREATE RITID=NG20R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT, LINES 44
DEFINE NG 'NAVAL GUNFIRE'
DEFINE SE 'SEA DRAGON'
DEFINE SW 'A'
DEFINE AC 'CORPS AREA'
DEFINE RP 'ROUTE PKG'
DEFINE ST '              '
DEFINE MOS '       '
DEFINE SZ 21
DEFINE SA 21
DEFINE DE 21
DEFINE SC 21
DEFINE SY, 5
DEFINE CC 6
DEFINE DC 6
DEFINE EC 6
DEFINE XT 5
DEFINE YT 5
DEFINE SK, 24
DEFINE ZK, 24
DEFINE ZI, 24
DEFINE ZA, 24
DEFINE SR 25
DEFINE SQ 25
DEFINE WW 7
DEFINE XX 6
DEFINE YY 6
HEADER1, 082, '***SECRET***'
HEADER2, 012, 'REPORT NG20R'
SPACE 2
HEADER3, 010, SE IF SORT 4-4 EQ 'B'
HEADER3, 013, NG IF SORT 4-4 EQ 'A'
HEADER4, 010, 'DATA AS OF'
HEADER4, 013, SORT 10-11 IF SW EQ 'A'
HEADER4, 013, ST 5-6 IF SW EQ 'B'
HEADER4, 017, SORT 8-9 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST 3-4 TABLE MONTS IF SW EQ 'B'
HEADER4, 020, '19'
HEADER4, 022, SORT 6-7 IF SW EQ 'A'
HEADER4, 022, ST 1-2 IF SW EQ 'B'
HEADER4, 027, 'THRU' IF  SORT 12-17 NE '      ' AND SW EQ 'A'
HEADER4, 027, 'THRU' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 030, SORT 16-17 IF SW EQ 'A'
HEADER4, 030, ST 11-12 IF SW EQ 'B'
HEADER4, 034, SORT 14-15 TABLE MONTS IF SW EQ 'A'
```

```
HEADER4, 034, ST 9-10 TABLE MONTS IF SW EQ 'B'
HEADER4, 037, '19' IF SORT 12-17 NE '      ' AND SW EQ 'A'
HEADER4, 037, '19' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 039, SORT 12-13 IF SW EQ 'A'
HEADER4, 039, ST 7-8 IF SW EQ 'B'
HEADER4, 114, 'DATE OF REPORT-'
HEADER4, 126, OPDATE
HEADER5, 064, 'N-A-V-A-L  G-U-N-F-I-R-E'
HEADER5, 087, 'U-T-I-L-I-Z-A-T-I-O-N'
HEADER5, 094, 'S-V-N' IF SORT 4-4 EQ 'A'
HEADER5, 094, 'N-V-N' IF SORT 4-4 EQ 'B'
HEADER6, 081, 'B-Y  R-V-N  C-O-R-P-S  A-R-E-A' IF SORT 4-4 EQ 'A'
HEADER6, 080, 'B-Y  R-O-U-T-E  P-A-C-K-A-G-E' IF SORT 4-4 EQ 'B'
HEADER6, 132, 'TABLE 4-J' IF SORT 4-4 EQ 'B'
HEADER6, 132, 'TABLE 4-I' IF SORT 4-4 EQ 'A'
SPACE 2
HEADER7, 067, SORT 7-7
HEADER7, 066, '196'
HEADER8, 055, 'OCT      NOV      DEC' IF SORT 8-9 GT '09'
HEADER8, 055, 'JAN      FEB      MAR' IF SORT 8-9 LT '04'
HEADER8, 055, 'APR      MAY      JUN' IF SORT 8-9 GT '03' AND SORT    C
HEADER8, 8-9 LT '07'
HEADER8, 055, 'JUL      AUG      SEP' IF SORT 8-9 GT '06' AND SORT    C
HEADER8, 8-9 LT '10'
HEADER8, 069, 'QTR TOTAL'
COMPUTE XX EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDOD EQ 'DAM' AND   C
COMPUTE SORT 18-18 EQ 'B'
COMPUTE YY EQ TOTAL OF MLQTY IF LCODE EQ 'O ' AND MLDOD EQ 'DES' AND   C
COMPUTE SORT 18-18 EQ 'B'
LINE1, IF SW EQ 'A'
LINE1, MOVE SORT 6-17 TO ST
LINE1, MOVE 'B' TO SW
LINE1A IF SW NE SW
LINE2 IF MOS EQ '      '
LINE2, MOVE '070809' TO MOS IF SORT 8-9 GT '06' AND SORT 8-9 LT '10'
LINE2, MOVE '040506' TO MOS IF SORT 8-9 GT '03' AND SORT 8-9 LT '07'
LINE2, MOVE '010203' TO MOS IF SORT 8-9 LT '04'
LINE2, MOVE '101112' TO MOS IF SORT 8-9 GT '09'
LINE2A, IF MOS NE MOS
LINE3, IF SORT 5-5 CHANGES
LINE3, 008, 'I CORPS' IF SORT 5-5 EQ '1' AND SORT 4-4 EQ 'A'
LINE3, 009, 'RTE PKG 1' IF SORT 5-5 EQ '1' AND SORT 4-4 EQ 'B'
LINE3, 008, 'II CORPS' IF SORT 5-5 EQ '2' AND SORT 4-4 EQ 'A'
LINE3, 009, 'RTE PKG 2' IF SORT 5-5 EQ '2' AND SORT 4-4 EQ 'B'
LINE3, 009, 'III CORPS' IF SORT 5-5 EQ '3' AND SORT 4-4 EQ 'A'
LINE3, 009, 'RTE PKG 3' IF SORT 5-5 EQ '3' AND SORT 4-4 EQ 'B'
LINE3, 009, 'RTE PKG 4' IF SORT 5-5 EQ '4' AND SORT 4-4 EQ 'B'
LINE3, 009, 'IV CORPS' IF SORT 5-5 EQ '4' AND SORT 4-4 EQ 'A'
LINE6, ALL
LINE6, IF SORT 18-18 EQ 'A' AND EPKIL GT '000'
LINE6, ADD EPKIL TO SK 19-24
LINE6, ADD EPKIL TO SK 13-18 IF SDATE 3-4 EQ MOS 5-6
LINE6, ADD EPKIL TO SK 7-12 IF SDATE 3-4 EQ MOS 3-4
```

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```
LINE6,   ADD EPKIL TO SK 1-6 IF SDATE 3-4 EQ MOS 1-2
LINE6A IF CC NE CC
LINE9, IF SORT 18-18 EQ 'A'
LINE9, COMPUTE WW EQ TOTAL OF QTYEX
LINE9A IF WW NE WW
LINE12, IF SORT 18-18 EQ 'A'
LINE12, ADD WW TO SQ 19-25
LINE12 ADD WW 2-7 TO SQ 13-18 IF SDATE 3-4 EQ MOS 5-6
LINE12 ADD WW 2-7 TO SQ 7-12 IF SDATE 3-4 EQ MOS 3-4
LINE12 ADD WW 2-7 TO SQ 1-6 IF SDATE 3-4 EQ MOS 1-2
LINE12A  IF CC NE CC
LINE15, IF SORT 18-18 EQ 'B'
LINE15, ADD XX TO SA 16-21
LINE15, ADD YY TO SC 16-21
LINE15 MOVE XX 2-6 TO XT
LINE15 MOVE YY 2-6 TO YT
LINE15, ADD XT TO SA 11-15 IF SDATE 3-4 EQ MOS 5-6
LINE15, ADD YT TO SC 11-15 IF SDATE 3-4 EQ MOS 5-6
LINE15, ADD XT TO SA 6-10 IF SDATE 3-4 EQ MOS 3-4
LINE15, ADD YT TO SC 6-10 IF SDATE 3-4 EQ MOS 3-4
LINE15, ADD XT TO SA 1-5 IF SDATE 3-4 EQ MOS 1-2
LINE15, ADD YT TO SC 1-5 IF SDATE 3-4 EQ MOS 1-2
LINE15A, IF XX NE XX
LINE18, IF SORT 18-18 EQ 'A'
LINE18, COMPUTE CC EQ COUNT OF UIC IF SDATE 3-4 EQ MOS 5-6
LINE18, COMPUTE DC EQ COUNT OF UIC IF SDATE 3-4 EQ MOS 3-4
LINE18, COMPUTE EC EQ COUNT OF UIC IF SDATE 3-4 EQ MOS 1-2
LINE18A  IF CC NE CC
LINE21, RESET WW
LINE21, RESET XX
LINE21, RESET YY
LINE21A, IF CC NE CC
LINE24, IF SORT 5-5 COMPLETE
LINE24, COMPUTE SY EQ EC & DC & CC
LINE24 ADD SY TO ZA 16-21
LINE24 ADD CC 2-6 TO ZA 11-15
LINE24 ADD DC 2-6 TO ZA 6-10
LINE24 ADD EC 2-6 TO ZA 1-5
LINE24 ADD SQ  1-6 TO SR  1-6
LINE24 ADD SQ 7-12 TO SR 7-12
LINE24 ADD SQ 13-18 TO SR 13-18
LINE24 ADD SQ 19-25 TO SR 19-25
LINE24 ADD ZA   1-5 TO ZZ   1-5
LINE24 ADD ZA  6-10 TO ZZ  6-10
LINE24 ADD ZA 11-15 TO ZZ 11-15
LINE24 ADD ZA 16-21 TO ZZ 16-21
LINE24 ADD ZA 22-24 TO ZZ 22-24
LINE24 ADD SK   1-6 TO ZK   1-6
LINE24 ADD SK  7-12 TO ZK  7-12
LINE24 ADD SK 13-18 TO ZK 13-18
LINE24 ADD SK 19-24 TO ZK 19-24
LINE24 ADD SA   1-5 TO SZ   1-5
LINE24 ADD SA  6-10 TO SZ  6-10
```


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```
LINE24 ADD SA 11-15 TO SZ 11-15
LINE24 ADD SA 16-21 TO SZ 16-21
LINE24 ADD SC   1-5 TO DE   1-5
LINE24 ADD SC  6-10 TO DE  6-10
LINE24 ADD SC 11-15 TO DE 11-15
LINE24 ADD SC 16-21 TO DE 16-21
LINE24, RESET SY TO 0
LINE24, RESET CC
LINE24, RESET DC
LINE24, RESET EC
LINE24A, IF CC NE CC
LABEL27A, 006, 'USN '
LABEL27A, 014, 'FIRINGS'
LABEL27A,035,ZA 1-5
LABEL27A,045,ZA 6-10
LABEL27A,055,ZA 11-15
LABEL27A,067,ZA 16-21
LABEL27B, 013, 'ROUNDS'
LABEL27B,035,SQ 1-6
LABEL27B,045,SQ 7-12
LABEL27B,055,SQ 13-18
LABEL27B,067,SQ 19-25
LABEL27C  014, 'VC KIA '
LABEL27C,035,SK 1-6
LABEL27C,045,SK 7-12
LABEL27C,055,SK 13-18
LABEL27C,067,SK 19-24
LABEL27D  021, 'STRUCTURES DESTROYED'
LABEL27D,035,SC 1-5
LABEL27D,045,SC 6-10
LABEL27D,055,SC 11-15
LABEL27D,067,SC 16-21
LABEL27E  021, 'STRUCTURES DAMAGED'
LABEL27E,035,SA 1-5
LABEL27E,045,SA 6-10
LABEL27E,055,SA 11-15
LABEL27E,067,SA 16-21
LABEL27F, 011, 'VNN FIRINGS'
LINE27, IF SORT 5-5 COMPLETE
LINE27,001, ' '
LINE30, IF SORT 5-5 COMPLETE
LINE30, RESET SA
LINE30, RESET SQ
LINE30, RESET SC
LINE30, RESET ZA
LINE30, RESET SK
LINE30A, IF SW NE SW
LINE33, IF SORT 4-4 COMPLETE
LINE33, 005, 'TOTAL'
LABEL36A, 006, 'USN '
LABEL36A, 014, 'FIRINGS'
LABEL36A,035,ZZ 1-5
LABEL36A,045,ZZ 6-10
```

```
LABEL36A,055 ZZ 11-15
LABEL36A,067,ZZ 16-21
LABEL36B, 013, 'ROUNDS'
LABEL36B,035 SR 1-6
LABEL36B,045,SR 7-12
LABEL36B,055,SR 13-18
LABEL36B,067,SR 19-25
LABEL36C  014, 'VC KIA '
LABEL36C 035,ZK 1-6
LABEL36C 045,ZK 7-12
LABEL36C 055 ZK 13-18
LABEL36C 067,ZK 19-24
LABEL36D 021, 'STRUCTURES DESTROYED'
LABEL36D 035 DE 1-5
LABEL36D 045 DE 6-10
LABEL36D 055 DE 11-15
LABEL36D 067 DE 16-21
LABEL36E, 021, 'STRUCTURES DAMAGED  '
LABEL36E,035,SZ 1-5
LABEL36E,045,SZ 6-10
LABEL36E,055 SZ 11-15
LABEL36E,067,SZ 16-21
LABEL36F 011 'VNN FIRINGS'
LINE36, IF SORT 4-4 COMPLETE
LINE36, 001 ' '
LINE39, IF SORT 4-4 COMPLETE
LINE39, RESET SZ
LINE39, RESET DE
LINE39, RESET ZK
LINE39, RESET SR
LINE39, RESET ZZ
LINE42, IF SORT 4-4 COMPLETE
LINE39A, IF SW NE SW
LINE42  MOVE 'A' TO SW
LINE42A IF SW NE SW
SPACE 2
TRAILER1,.082, '***[redacted]***'
TRAILER1, 120, 'PAGE NO'
TRAILER1, 132, PAGENO
END
```


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UNCLASSIFIED

REPORT NG2OR

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

M-A-V-A-L G-U-N-F-I-R-E U-T-I-L-I-Z-A-T-I-O-N S-V-N
S-V R-V-N C-O-R-P-S A-R-E-A

DATE OF REPORT-DD MMM YYYY

1969

	JAN	FEB	MAR	
I CORPS				
USN FIRINGS	NNNNN	NNNNN	NNNNN	NNNNNN
ROUNDS	NNNNNN	NNNNNN	NNNNNN	NNNNNNN
VC KIA	NNNNNN	NNNNNN	NNNNNN	NNNNNNN
STRUCTURES DESTROYED	NNNNN	NNNNN	NNNNN	NNNNNN
STRUCTURES DAMAGED	NNNNN	NNNNN	NNNNN	NNNNNN
VNN FIRINGS				
TOTAL				
USN				
FIRINGS	NNNNN	NNNNN	NNNNNN	NNNNNN
ROUNDS	NNNNNN	NNNNNN	NNNNNNN	NNNNNNN
VC KIA	NNNNNN	NNNNNN	NNNNNNN	NNNNNNN
STRUCTURES DESTROYED	NNNN	NNNNN	NNNNNN	NNNNNN
STRUCTURES DAMAGED	NNNN	NNNNN	NNNNNN	NNNNNNN
VNN FIRINGS				

PAGE NNNNNN

A. RETRIEVAL FOR NG23R.

1. NG23R, REVISED MARCH, 1969.

2. THE PURPOSE OF THE RETRIEVAL IS TO PROVIDE A LISTING OF FRIENDLY AND ENEMY LOSSES. THE INFORMATION RETRIEVED RELATES TO TYPES OF LOSSES FOR FRIENDLY AND ENEMY FORCES FOR PERIOD QUERIED.

3. QUERY

```
TITLE NG23R/23.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND PARA3 NE - -.
SORT SDATE 1/4,-          -,OPCOD,ARCOD,- -,LCODE,MLUNT,MLDDD.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND EPKIL GT 0.
SORT SDATE 1/4,-          -,OPCOD,ARCOD,-A-.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND FRSET NE - -.
SORT SDATE 1/4,-          -,OPCOD,ARCOD,-B-.
IF SDATE EQ &SDATE
AND OPCOD EQ NG SE
AND DEDAF NE - -.
SORT SDATE 1/4,-          -,OPCOD,ARCOD,-C-,DEDAF.
```

B. OUTPUT FOR NG23R.

1. ATTACHED IS A MACHINE LISTING OF NG23R.

2. ATTACHED AFTER THE LISTING IS A PRINTER LAYOUT SHEET SHOWING THE FORMAT OF NG23R.

3. NG23R PRODUCES 'NAVAL GUNFIRE LOSS REPORT SUMMARY'.

```
CREATE RITID=NG23R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT, LINES 45
DEFINE Z 5
DEFINE CR 5
DEFINE CT 5
DEFINE X 5
DEFINE Y 5
DEFINE W 5
DEFINE V 5
DEFINE NG 'NAVAL GUNFIRE'
DEFINE SE 'SEA DRAGON'
DEFINE ST '            '
DEFINE SW 'A'
DEFINE AC 'CORPS AREA'
DEFINE RP 'ROUTE PKG'
HEADER1, 082, '***SECRET***'
HEADER2, 012, 'REPORT NG23R'
SPACE 2
HEADER3, 013, NG IF SORT 16-17 EQ 'NG'
HEADER3, 010, SE IF SORT 16-17 EQ 'SE'
HEADER4, 010, 'DATA AS OF'
HEADER4, 013, SORT 8-9 IF SW EQ 'A'
HEADER4, 013, ST 5-6 IF SW EQ 'B'
HEADER4, 017, SORT 6-7 TABLE MONTS IF SW EQ 'A'
HEADER4, 017, ST   3-4 TABLE MONTS IF SW EQ 'B'
HEADER4, 020, '19'
HEADER4, 022, SORT 4-5 IF SW EQ 'A'
HEADER4, 022, ST   1-2 IF SW EQ 'B'
HEADER4, 027, 'THRU' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 027, 'THRU' IF ST 7-12 NE '      ' AND SW EQ 'B'
HEADER4, 030, SORT 14-15 IF SW EQ 'A'
HEADER4, 030, ST   11-12 IF SW EQ 'B'
HEADER4, 034, SORT 12-13 TABLE MONTS IF SW EQ 'A'
HEADER4, 034, ST    9-10 TABLE MONTS IF SW EQ 'B'
HEADER4, 037, '19' IF SORT 10-15 NE '      ' AND SW EQ 'A'
HEADER4, 037, '19' IF ST    7-12 NE '      ' AND SW EQ 'B'
HEADER4, 039, SORT 10-11 IF SW EQ 'A'
HEADER4, 039, ST    7-8  IF SW EQ 'B'
HEADER4, 114, 'DATE OF  REPORT-'
HEADER4, 126, OPDATE
HEADER5  064, 'S-E-A  D-R-A-G-O-N' IF SORT 16-17 EQ 'SE'
HEADER5, 064, 'N-A-V-A-L  G-U-N-F-I-R-E' IF SORT 16-17 EQ 'NG'
HEADER5  086, 'L-O-S-S  R-E-P-O-R-T'
```

```
HEADER6, 072, 'S-U-M-M-A-R-Y'
SPACE 2
HEADER7, 020, RP IF SORT 16-17 EQ 'SE'
HEADER7, 021, AC IF SORT 16-17 EQ 'NG'
HEADER7, 036, 'LOSSES'
HEADER7, 052, 'MONTH'
HEADER7, 083, 'TARGET'
HEADER7, 105, 'AMOUNT'
HEADER7, 116, 'UNITS'
HEADER7, 126, 'DESIG'
COMPUTE CT EQ CT & 1 IF DEDAF NE '   ' AND SORT 19-19 EQ 'C'
COMPUTE V EQ TOTAL OF NPMIA IF SORT 19-19 EQ 'B' AND NPMIA NOT EQ '  '
COMPUTE W EQ TOTAL OF NPWIA IF SORT 19-19 EQ 'B' AND NPWIA NOT EQ '  '
COMPUTE X EQ TOTAL OF NPKIA IF SORT 19-19 EQ 'B' AND NPKIA NOT EQ '  '
COMPUTE Y EQ TOTAL OF EPKIL IF SORT 19-19 EQ 'A'                        C
COMPUTE AND EPKIL NOT EQ '   '
COMPUTE Z EQ TOTAL OF MLQTY IF SORT 19-19 EQ ' '                        C
COMPUTE AND MLQTY NOT EQ '   '
LINE1, IF SW EQ 'A'
LINE1, MOVE SORT 4-15 TO ST
LINE1, MOVE 'B' TO SW
LINE1, IF SW EQ 'Z'
LINE3, SCAN
LINE3, IF SORT 4-27 COMPLETE AND SORT 19-19 EQ ' ' AND Z GT 00000
LINE3, 016, ARCOD
LINE3, 035, 'ENEMY'
LINE3, 050, SORT 6-7 SUBRT MONTS
LINE3, 053, SORT 4-5
LINE3, 067, TIME TABLE TARES
LINE3, 103,Z
LINE3, 114, SORT 22-24
LINE3, 124, SORT 25-27
LINE3, RESET Z
LINE6, IF SORT 4-22 COMPLETE AND SORT 19-19 EQ 'C' AND CT GT 00000
LINE6, 016, ARCOD
LINE6, 038, 'FRIENDLY'
LINE6, 050, SORT 6-7 SUBRT MONTS
LINE6, 053, SORT 4-5
LINE6, 082, 'SHIPS'
LINE6, 103, CT
LINE6, 113, 'EA'
LINE6, 124, SORT 20-22
LINE6, RESET CT
LINE9, IF SORT 4-19 COMPLETE AND SORT 19-19 EQ 'A' AND Y GT 00000
LINE9, 016, ARCOD
LINE9, 035, 'ENEMY'
LINE9, 050, SORT 6-7 SUBRT MONTS
LINE9, 053, SORT 4-5
LINE9, 086, 'PERSONNEL'
LINE9, 103, Y
LINE9, 113, 'EA'
LINE9, 124, 'KIA'
LINE9, RESET Y
```

```
LINE12, IF SORT 4-19 COMPLETE AND SORT 19-19 EQ 'B' AND X GT 00000
LINE12,  016, ARCOD
LINE12, 038, 'FRIENDLY'
LINE12, 050, SORT 6-7 SUBRT MONTS
LINE12, 053, SORT 4-5
LINE12, 086, 'PERSONNEL'
LINE12, 103,X
LINE12, 113, 'EA'
LINE12, 124, 'KIA'
LINE12, RESET X
LINE15, IF SORT 4-19 COMPLETE AND SORT 19-19 EQ 'B' AND W GT 00000
LINE15, 016, ARCOD
LINE15, 038, 'FRIENDLY'
LINE15, 050, SORT 6-7 SUBRT MONTS
LINE15, 053, SORT 4-5
LINE15, 086, 'PERSONNEL'
LINE15, 103,W
LINE15, 113, 'EA'
LINE15, 124, 'WIA'
LINE15, RESET W
LINE18, IF SORT 4-19 COMPLETE AND SORT 19-19 EQ 'B' AND V GT 00000
LINE18, 016, ARCOD
LINE18, 038, 'FRIENDLY'
LINE18, 050, SORT 6-7 SUBRT MONTS
LINE18, 053, SORT 4-5
LINE18, 086, 'PERSONNEL'
LINE18, 103, V
LINE18, 113 'EA'
LINE18, 124 'MIA'
LINE18, RESET V
LINE30, IF SORT 4-15 COMPLETE
LINE30, MOVE 'A' TO SW
LINE30A, IF SW NE SW
EJECT BETWEEN RECORDS IF SDATE 1-4 COMPLETE
SPAGE 2 BEFORE TRAILER1
TRAILER1, 082, '***[redacted]***'
TRAILER1, 125, 'PAGE'
TRAILER1, 132, PAGENO
END
```

[redacted] UNCLASSIF [redacted]

REPORT NG23R

NAVAL GUNFIRE
DATA AS OF DD MMM YYYY THRU DD MMM YYYY

N-A-V-A-L G-U-N-F-I-R-E L-O-S-S R-E-P-O-R-T
S-U-M-M-A-R-Y

DATE OF REPORT-DD MMM Y YY

CORPS	AREA	LOSSES	MONTH		TARGET		AMOUNT	UNITS	DESIG
X		ENEMY	MMM YY	X	LCODE	X	NNNNN	XXX	XXX
X		FRIENDLY	MMM YY		SHIPS		NNNNN	EA	XXX
X		ENEMY	MMM YY		PERSONNEL		NNNNN	EA	KIA
X		FRIENDLY	MMM YY		PERSONNEL		NNNNN	EA	KIA
X		FRIENDLY	MMM YY		PERSONNEL		NNNNN	EA	KIA
X		FRIENDLY	MMM YY		PERSONNEL		NNNNN	EA	KIA

PAGE NNNNNNN

A. RETRIEVAL FOR NG29R

1. NG29R, WRITTEN MAY, 1972

2. THE PURPOSE OF THE RETRIEVAL IS TO PROVIDE A REPORT OF AMMO EXPENDED BY AREA CODE, BY SHIP, AND BY PROVINCE.

3. QUERY

```
FILE CONGA.
TITLE NG29R/29.
LIMIT IF SDATE BT XXXXXX/XXXXXX.
IF OPCOD EQ NG
AND (LCODE EQ 0 OR ARCOD GE 1)
AND ARCOD BT 1/4.
SORT ARCOD,SHPNM,PCODE.
```

B. OUTPUT FOR NG29R

1. ATTACHED IS A MACHINE LISTING OF NG29R.

2. NG29R PRODUCES 'NAVAL GUNFIRE SUPPORT'.

```
CREATE RITID=NG29R STORE=PERM-OLD
FILE CONGA
FORMAT PRINT LINES 50
DEFINE BUCK2 6
DEFINE BUCK3 4
DEFINE BUCK4 4
DEFINE BUCK5 7
DEFINE BUCK6 5
DEFINE BUCK7 5
DEFINE BUCK8 5
DEFINE BUCK9 8
DEFINE BUCK10 6
DEFINE BUCK11 6
DEFINE BUCK12 6
DEFINE NAME1 '                '
HEADER1  72  '***[redacted]***'
HEADER2  22  'REPORT NG29R'
HEADER2 76 'NAVAL GUNFIRE SUPPORT'
HEADER3 76 PARAM 1/18
HEADER4  6 'ARCOD'
HEADER4  14  'SHIP'
HEADER4  34  'TYPE'
HEADER4  50  'PROVINCE'
HEADER4 68 'OPERATIONS'
HEADER4  79  'AMMO'
HEADER4   97  'STRUCTURES'
HEADER5  67  'SUPPORTED'
HEADER5  83  'EXPENDED'
HEADER5   90  'DES'
HEADER5   99  'DAM'
MOVE OPNAM TO NAME1 IF OPNAM NE ' '
ADD 1 TO BUCK8
ADD 1 TO BUCK12
ADD MLQTY TO BUCK3 IF MLDDD EQ 'DES'
ADD MLQTY TO BUCK6 IF MLDDD EQ 'DES'
ADD MLQTY TO BUCK10 IF MLDDD EQ 'DES'
ADD MLQTY TO BUCK4 IF MLDDD EQ 'DAM'
ADD MLQTY TO BUCK7 IF MLDDD EQ 'DAM'
ADD MLQTY TO BUCK11 IF MLDDD EQ 'DAM'
LINE1 ALL
LINE1 ADD QTYEX TO BUCK2
LINE1 ADD QTYEX TO BUCK5
LINE1 ADD QTYEX TO BUCK9
LINE1A IF BUCK2 NE BUCK2
LINE2 IF SORT 4/22 COMPLETE
LINE2 4 ARCOD
LINE2 26 SHPNM
LINE2 34 SHPTP
```

```
LINE2 39 HLNO
LINE2 54 PCODE TABLE PROV5
LINE2 71 NAME1
LINE2 81 BUCK2
LINE2  91 BUCK3
LINE2 100 BUCK4
LINE2 MOVE '                '  TO NAME1
LINE2 RESET BUCK2
LINE2 RESET BUCK3
LINE2 RESET BUCK4
LINE4  IF SORT 4/4 COMPLETE
LINE4 16 'AREA SUBTOTAL'
LINE4 71 BUCK8
LINE4 81 BUCK5
LINE4  91 BUCK6
LINE4 100 BUCK7
LINE4 RESET BUCK5
LINE4 RESET BUCK6
LINE4 RESET BUCK7
LINE4 RESET BUCK8
SPACE 2
FINALLINE1 8 'TOTAL'
FINALLINE1 71 BUCK12
FINALLINE1 82 BUCK9
FINALLINE1  92 BUCK10
FINALLINE1 101 BUCK11
TRAILER1  72  '***[redacted]***'
TRAILER1    93 'PAGE'
TRAILER1   100 PAGENO
END
```

REPORT NG29R

NAVAL GUNFIRE SUPPORT

ARCOD	SHIP	TYPE	PROVINCE	OPERATIONS SUPPORTED	AMMO EXPENDED	STRUCTURES DES	STRUCTURES DAM
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
X	XXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XX	XXXXX	XXX	XXX
AREA SUBTOTAL					XXXXX	XXX	XXX
TOTAL					XXXXXX	XXX	XXX

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OPERATING PROCEDURES
A. STORED PROGRAMS AVAILABLE FOR TERMINAL PROCESSING.

1. QUIP QUERY - 'NG03T'

OUTPUT DESCRIPTION - PRODUCES REPORT OF THE NUMBER OF SHIPS ON STATION.

2. ATTACHED IS A MACHINE LISTING OF NG03T.

3. ATTACHED AFTER THE LISTING IS A LAYOUT SHEET SHOWING THE FORMAT OF NG03T.

4. QUIP

```
FILE CONGA CLASS ~~SECRET~~.
LIMIT SDATE EQ XXXXXX.
IF SHPTP EQ DE DD DDG CL CLG AND ((OPCOD EQ NG AND ARCOD EQ 1)
OR OPCOD EQ SE).
SORT SDATE SHPTP 1/2 SHPNM.
IF SORTKEY 1/8 CHANGES PRINT COUNT COUNT1 SUM
INITIAL DISPLAY SORTKEY 1/8.
IF SORTKEY CHANGES INITIAL FOR OPCOD EQ NG SE COUNT SHPNM.
FOR OPCOD EQ NG SE COUNT1 RCTRL SUM ALL QTYEX.
FINAL PRINT COUNT COUNT1 SUM.
```

INVOKE BY ENTERING -

```
FILE CONGA CLASS ~~SECRET~~.
LIMIT SDATE EQ XXXXXX.
LOAD 'NG03T'.
GO
```


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NUMBER OF SHIPS ON STATIONS AND AMMUNITION EXPENDED FOR SHIP TYPES CA, DD, DDG, DLG, CL, CLG

	NG	SE
FOR OPCODEQ COUNT	X	X
FOR OPCODEQ COUNT(1)	X	X
FOR OPCODEQ SUM QTYEX	XX	XX

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B. STORED QUIP

1. QUIP QUERY - 'NG04T'
OUTPUT DESCRIPTION - PRODUCES REPORT OF STRUCTURES DESTROYED OR DAMAGED BY DESIGNATED SHIP TYPES.

2. ATTACHED IS A MACHINE LISTING OF NG04T.

3. ATTACHED AFTER THE LISTING IS A LAYOUT SHEET SHOWING THE FORMAT OF NG04T.

4. QUIP

```
FILE CONGA CLASS SECRET.
LIMIT SDATE EQ XXXXXX.
IF SHPTP EQ DE DD DDG CL CLG AND ((OPCOD EQ NG SE AND ARCOD EQ 1)
OR OPCOD EQ SE) AND LCODE NE ' '.
SORT SDATE OPCOD LCODE MLUNT.
IF SORTKEY CHANGES PRINT SUM INITIAL DISPLAY
SORTKEY 1/6 2 SORTKEY 7/8 2 SORTKEY 9/23 2 SORTKEY 24/25.
FOR MLDDD EQ DES DAM SEC SUM MLQTY.
FINAL PRINT SUM.
```

INVOKE BY ENTERING -

```
FILE CONGA CLASS SECRET.
LIMIT SDATE EQ XXXXXX.
LOAD 'NG04T'.
*Q
```


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UNCLASSIFIED

GROUND DAMAGE ASSESSMENT FOR
SHIP TYPES CA, DD, DDG, DLG, CL, CLG

FOR MLDDD EQ	DES	DAM	SEC
SUM	XX	XX	XX
MLQTY			

UNCLASSIFIED

C. STORED QUIP

1. QUIP QUERY - 'NG05T'
OUTPUT DESCRIPTION - PRODUCES REPORT OF ENEMY KILLED BY DESIGNATED SHIP TYPES.

2. ATTACHED IS A MACHINE LISTING OF NG05T.

3. ATTACHED AFTER THE LISTING IS A LAYOUT SHEET SHOWING THE FORMAT OF NG05T.

4. QUIP

```
FILE CONGA CLASS ~~SECRET~~.
LIMIT SDATE EQ XXXXXX.
IF SHPTP EQ DE DD DDG CL CLG AND ((OPCOD EQ NG AND ARCOD EQ 1)
OL OPCOD EQ SE).
IF SDATE CHANGES PRINT SUM INITIAL LIST SDATE.
FOR OPCOD EQ NG SE SUM ALL EPKIL.
FINAL PRINT SUM.
NLINES.
```

INVOKE BY ENTERING -

```
FILE CONGA CLASS ~~SECRET~~.
LIMIT SDATE EQ XXXXXX.
LOAD 'NG05T'.
-Q
```

ENEMY KILLED FOR SHIP TYPES
CA, DD, DDG, DLG, CL, CLG

FOR OPCOD EQ	NG	SE
SUM	X	X
EPKIL		

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A. SCHEDULING INFORMATION
1. INPUT DATA IS DUE BY 1000 HRS ZULU EVERY WEDNESDAY.
2. ALL MONTHLY REPORTS ARE DUE OUT ON THE 5TH WORKING DAY OF THE FOLLOWING MONTH.
3. RECIPIENTS OF ALL OUTPUT PRODUCTS ARE AS FOLLOWS
J-3, FLAG PLOT, FLAG PLOT ADP, OSD(C), PAC DIV, OPNAV, AND OSD(SA).
4. NUMBER OF COPIES REQUIRED BY EACH RECIPIENT--1 COPY OF EACH REPORT.
5. THE SECURITY CLASSIFICATIONS OF ALL OUTPUT SUCH AS CARDS, TAPES, AND PRINTOUTS ARE SECRET.
6. THE EXPECTED WEEKLY INPUT IS 350 TRANSACTIONS.
B. PERSONNEL CONTACTS
1. NAMES AND PHONE NUMBERS OF
A. TECHNICAL TEAM LEADER- J-3 FILE ANALYST
PHONE OFFICE OX5-9101
B. PROGRAMMERS--INTERNATIONAL BUSINESS MACHINES CORP.
PHONE OFFICE OX7-3928
C. USERS OF OUTPUT PRODUCTS-J-3,JCS
PHONE OFFICE OX5-9101
FLAP PLOT
PHONE OFFICE OX5-2050
FLAG PLOT ADP
PHONE OFFICE OX7-7543
OSD(C)
PHONE OFFICE OX5-0586
PAC DIV
PHONE OFFICE OX5-6119
OPNAV
PHONE OFFICE OX5-[illegible]
OSD(SA)
PHONE OFFICE OX7-0962
D. PERSONS WHO PREPARE AND CONTROL INPUT DATA - NMCSSC ANALYST
PHONE OX5-9101
C. QUALITY CONTROL REQUIREMENTS
1. CHECK THE PREPROCESSOR AND FMS ERROR LISTINGS AGAINST THE TRANSACTION. CHECK THE POST UPDATE RETRIEVAL FOR VALIDITY OF DATA. CHECK NGOIR AGAINST MESSAGES TO VALIDATE DATA.
2. ACTION TO BE TAKEN FOR EACH TYPE ERROR.
ERRORS THAT ARE FLAGGED ARE CORRECTED IN KEYPUNCHING AND RESUBMITTED WITH THE NEXT UPDATE AS A CHANGE CARD. ERRORS THAT ARE REJECTED ARE CORRECTED AND RESUBMITTED AS AN ADD CARD.
3. A SERIAL LOG IS MAINTAINED ON A WEEKLY BASIS AND COMPARED WITH A MONTHLY SUMMARY LOG. A TAPE USAGE LOG IS MAINTAINED INDEFINITELY.
D. RECORDS DISPOSITION
1. INSTRUCTIONS REGARDING RETENTION AND DISPOSITION OF
(A) CARD FILES--SAVE.
(B) TAPES--SAVE 30 DAYS.
(C) DISK PACK--SAVE.
(D) OTHER RECORDS--CONSOLE RUN BOOK S/360, PRELIMINARY FILE DOCUMENTATION S/360 AND CONGA TRANSCRIBING INSTRUCTIONS. (RETAIN INDEFINITELY)
(E) CONSOLE OPERATING INSTRUCTIONS-- FOR EXAMPLE OF MONTHLY AND WEEKLY PRODUCTION REFER TO THE CONGA CONSOLE RUN BOOK.

COPIES ARE MAINTAINED BY INTERNATIONAL BUSINESS MACHINES, B-500 AND THE PROJECT OFFICER (RETAIN INDEFINITELY)

F. NARRATIVE OPERATING PROCEDURE.

DATA ON NAVAL GUNFIRE SUPPORT IN SOUTHEAST ASIA IS RECEIVED WEEKLY OR DAILY ON OPREP-5 MESSAGES. THIS INFORMATION IS TRANSCRIBED AND KEYPUNCHED. THE DATA IS RUN AGAINST THE PREPROCESSOR FOR VALIDATION AND DATA GENERATION. FILE MAINTENANCE IS EXECUTED ON THE OUTPUT OF THE PREPROCESSOR CREATING A NEW MASTER DATA BASE. THE POST UPDATE RETRIEVAL IS EXECUTED ON THE UPDATED DATA BASE IN ORDER TO MONITOR THE DATA INPUT AND TO PERFORM QUALITY CONTROL FUNCTIONS. WHEN ALL DATA FOR A MONTH IS ADDED TO THE FILE AND VALIDATED, THE MONTHLY RETRIEVALS AND OUTPUTS ARE PROCESSED AND DISSEMINATED TO J-3, FLAG PLOT, FLAG PLOT ADP, ODS(C), PAC DIV, OPNAV, AND OSD(SA).

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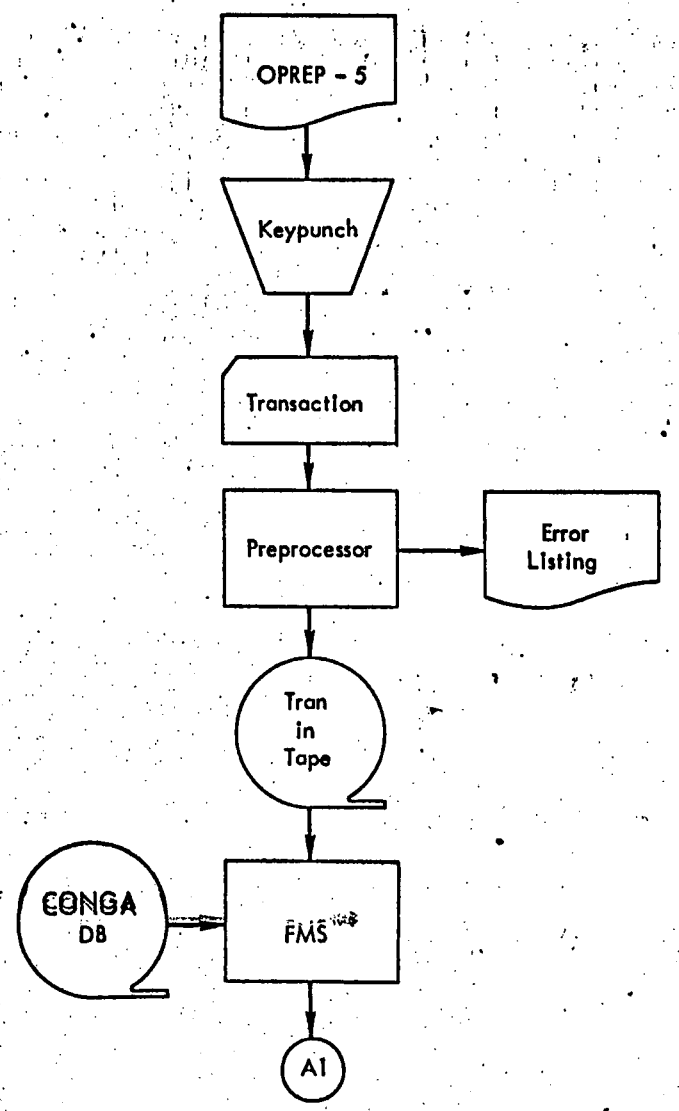
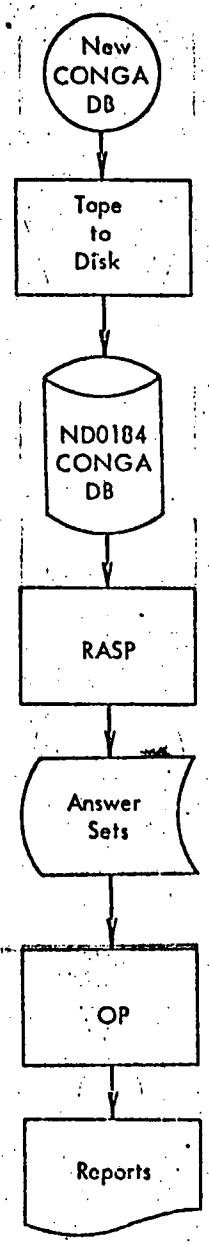
B. FLOW DIAGRAM





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COMBAT NAVAL GUNFIRE SUPPORT FILE

(CONGA)

CONSOLE RUN BOOK

ACKNOWLEDGMENT
(December 1969)

This Console Run Book has been prepared by the Computer Sciences Corporation, 400 Army Navy Drive, Arlington, Virginia 22202, for the Joint Chiefs of Staff at the NMCSSC installation under DCA Contract Number 100-67-C-0040. Information corresponds to Release 16 of the IBM 360 Operating System.

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CHAPTER 1

SYSTEM DESCRIPTION

The CONGA System is written to operate under the National Military Command System Information Processing System (NIPS) on the IBM 3/360 computer. The file provides information on Naval Gunfire Support in Southeast Asia to the Commander in Chief/Pacific (CINCPAC), Joint Chief of Staff/Operations Directorate (J-3), Center for Naval Analysis (CNA), Naval Operations (OPNAV), Office of the Secretary of Defense/Comptroller (OSD-C) and Office of the Secretary of Defense/Systems Analysis (OSD-SA).

The CONGA System is updated twice weekly, with NG01R (Record Dump) run after each update to check the results of the update. A series of eight retrievals are run monthly to provide reports requested by JCS.

Information for the CONGA File is received from MACV Via the OPREP-5 messages.

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CHAPTER 2

OPERATING INSTRUCTIONS FOR ENTIRE RUN

MINIMUM CONFIGURATION REQUIRED

The CONGA File must be run on an IBM 360/50 or IBM 360/65 supporting NIPS with the following minimum configuration:

One 7-track tape unit
One 9-track tape unit
One 2314 disk unit for CONGA data base disk pack.

Largest Region Size by Job

The largest region size by job is as follows:

Job Name	Job Step	Function	Region
CONGAUPD	Step 1	IEHPROGM	60K
	Step 2	PREPROCESSOR	60K
	Step 3	FMS UPDATE	98K
	Step 4	TAPE TO DISK	60K
	Step 5	RASP	100K
	Step 6	OP	98K
CONGAMON	Step 1	RASP	100K
	Step 2	OP	100K
	Step 3	RASP	100K
	Step 4	OP	100K
CONGAQTR	Step 1	RASP	100K
	Step 2	OP	100K
CONGLLIB	Step 1	IEHPROGM	22K
	Step 2	IEHMOVE	60K
CONGCOPY	Step 1	ISTOS	60K
	Step 2	IEBGENER	22K
	Step 3	1410 CON	22K
			60K

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PERSONNEL CONTACTS FOR PROBLEMS

If an abort occurs, the step aborting will determine which restart procedure should be initiated. If restart procedures cannot be accomplished, the computer operator should save the console sheet, take a core dump and hold all information he deems as pertinent. Attempts to reach a responsivle person should be made in the order of the list below:

Department of Defense Personnel

PERSON	PHONE
ADPLO	OX 7-8325
Mr. D. Koperski	OX 7-2189

International Business Machine Corporation Personnel

PERSON	HOME PHONE	OFFICE PHONE
Mr. George Porter	548-8270	OX 7-6615
Mr. Graham Haynes	591-3874	OX 7-6615
Mr. Neil Edgell	434-9440	OX 7-6615

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PRODUCTION CYCLE

The CONGA file is updated twice weekly. One report is output from CONGAUPD, eight monthly reports are due five days after the end of the reporting period, and one quarterly report is produced upon request. CONGCOPY is run weekly to produce a tape copy of the 360 data base and the 1410 data base. These tapes are sent to MACV and CINCPAC respectively. An additional run of the CONGCOPY is required to obtain a set of tapes for Flag Plot.

Job	Run Time	Cycle	No. of Copies	Forms
CONGAUPD	40	Bi-weekly	1	STD
CONGAMON	90	Monthly	6	STD
CONGAQTR	20	Quarterly on request	6	STD
CONGLLIB	10	As required	1	STD
CONGCOPY	20	Weekly and Monthly	1	STD

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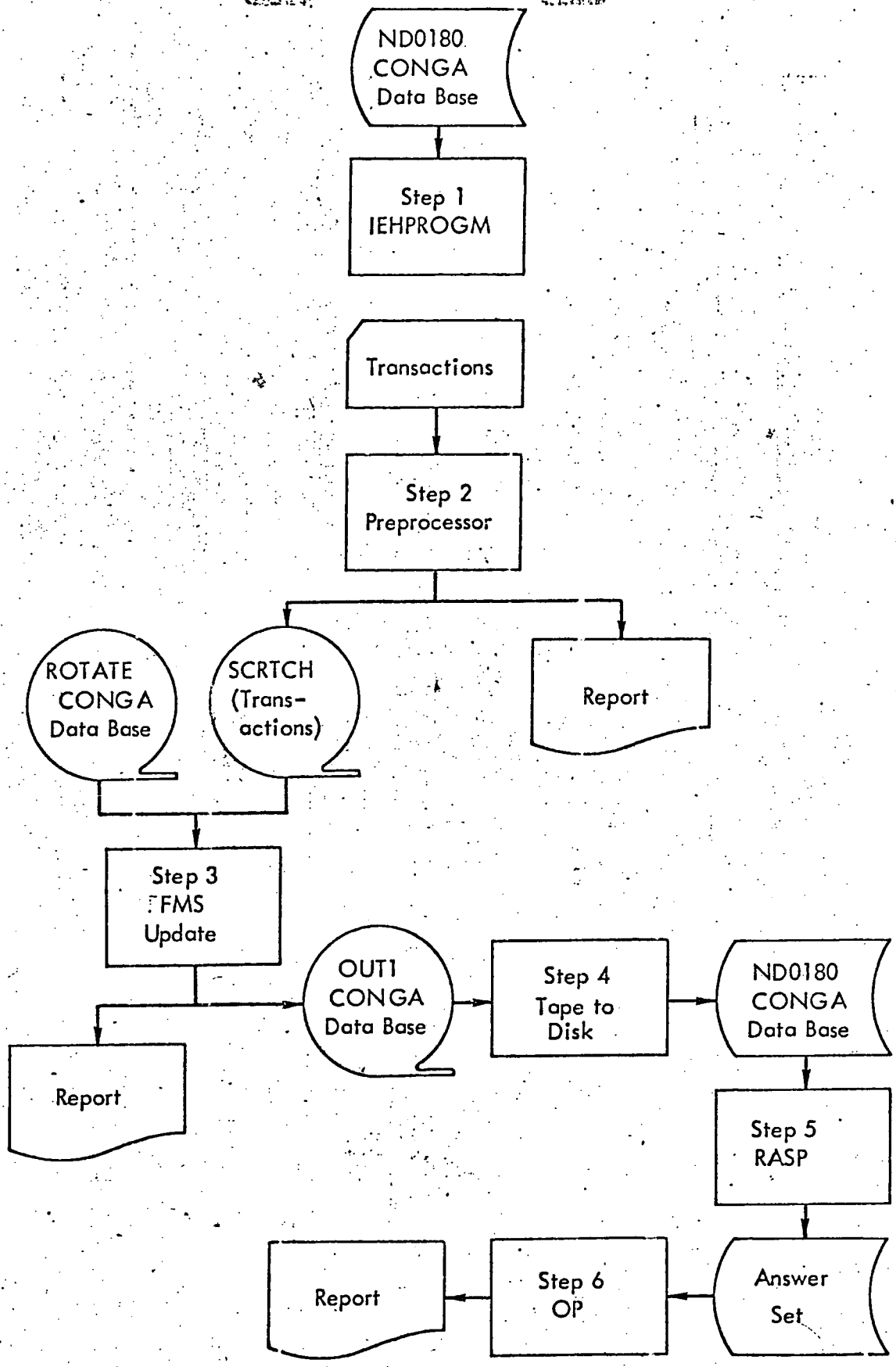
CONGAUPD



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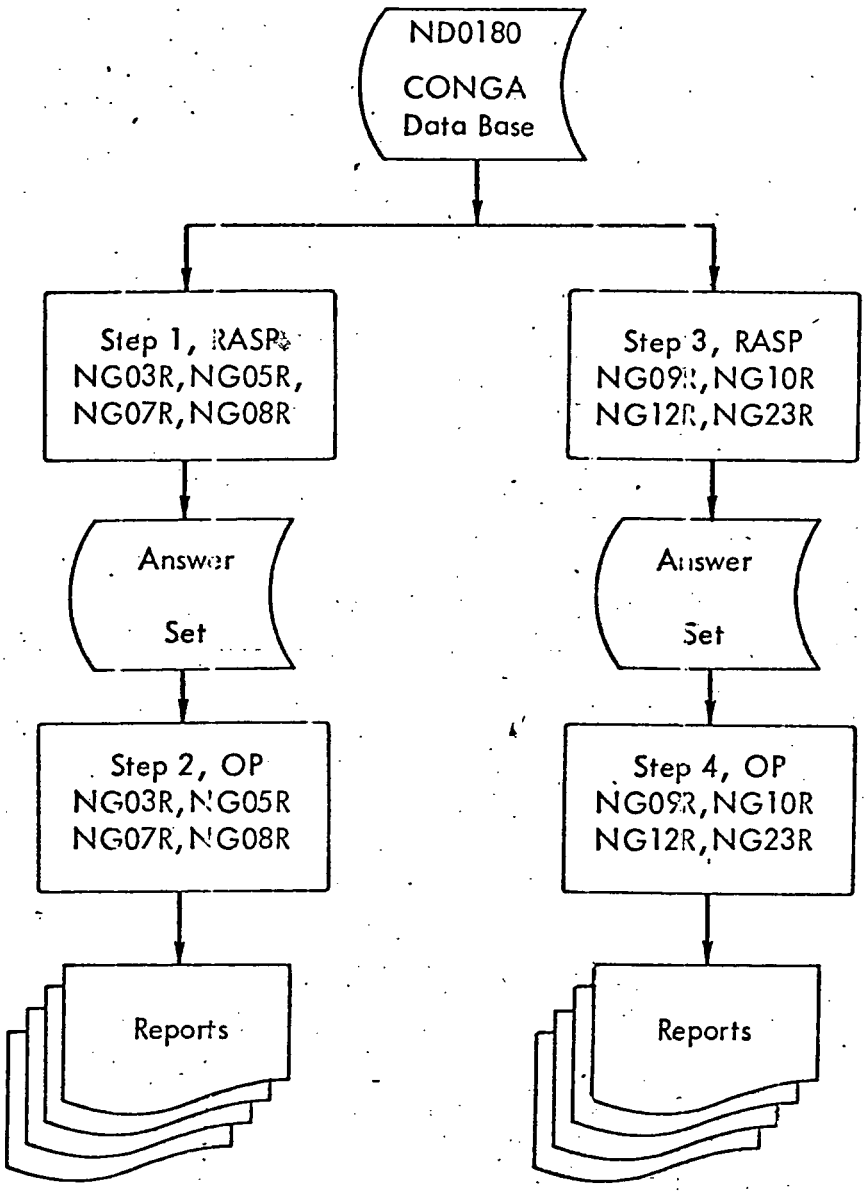

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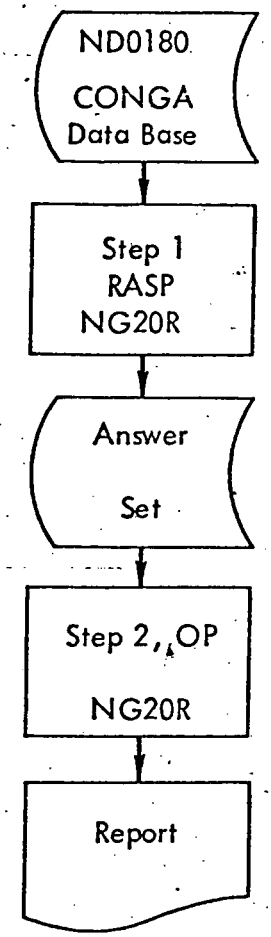
CONGAQTR



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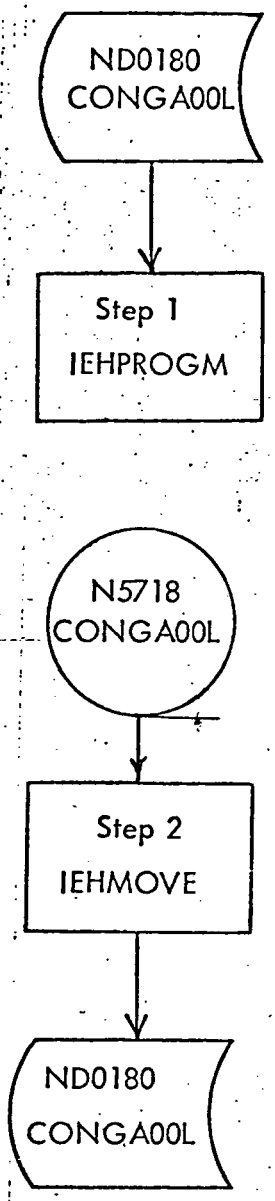
CONGLLIB



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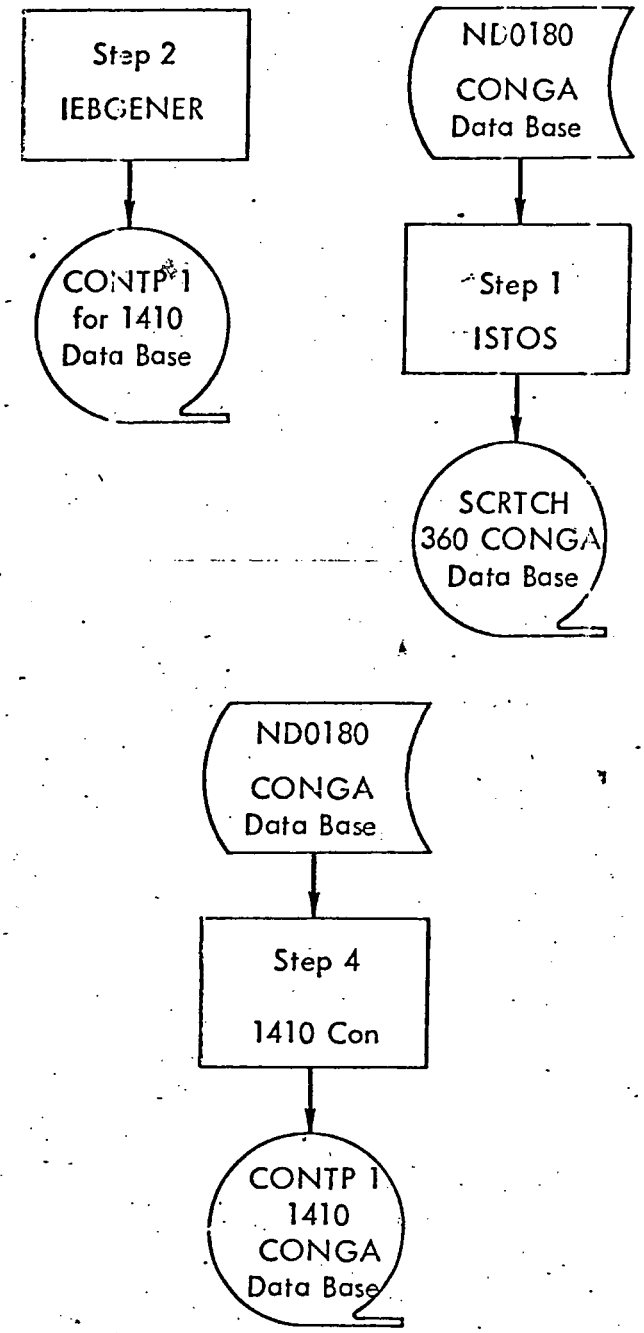
CONGCOPY



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RESTART PROCEDURES

If a JCL error occurs check deck against the control deck listing in Chapter 3.

CONGAUPD.

Step 1. If this step aborts, notify the ADPLO.

Step 2. If an I/O error occurs on the output tape (TRANS), restart CONGAUPD at Step 2 using a new scratch output tape after placing Job and Joblib cards before Step 2. If any other abend occurs on this step pull CONGAUPD and notify the ADPLO.

Step 3. If an I/O error occurs on the input tape (TRANS) from Step 2, restart CONGAUPD at Step 2 using a new scratch output tape after placing Job and Joblib cards in front of Step 2.

If an I/O error occurs on the output tape (OUT1), place Job and Joblib cards before Step 3 then restart CONGAUPD using the output tape from Step 2 (TRANS) and new scratch output tape (OUT1).

If an I/O error occurs on the input data base tape (ROTATE), pull CONGAUPD and notify the ADPLO.

Step 4. If an I/O error occurs, on the input tape (OUT1) place Job and Joblib cards in front of Step 3 then restart CONGAUPD using a new output scratch tape (OUT1).

Step 5. If this step aborts, notify the ADPLO.

Step 6. If this step aborts, notify the ADPLO.

CONGAMON.

If this job aborts, notify the ADPLO.

CONGAQTR.

If this job aborts, notify the ADPLO.

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CONGLLIB.

If this job aborts, notify the ADPLO.

CONGCOPY.

Step 1. If an I/O error occurs on the output data base tape, restart CONGCOPY using a new scratch output tape.

Step 2. If an I/O error occurs on the output tape (CONTP1), restart CONGCOPY at Step 2 after placing Job and Joblib cards before Step 2, using a new scratch output tape.

Step 3. If an I/O error occurs on the output 1410 data base, restart CONGCOPY at Step 2 placing Job and Joblib cards before Step 2, using a new scratch tape for Step 2 (CONTP1).

PROPRIETARY SOFTWARE

-NONE-

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CHAPTER 3

DETAILED OPERATING INSTRUCTIONS

JOB DESCRIPTIONS

CONGAUPD.

The CONGA file update is performed twice weekly.

Step 1 Used to uncatalog and catalog the library and the data base. In addition, it deletes the data base from disk.

Step 2 Used to edit and load transactions to tape and to list the errors.

Step 3 Used to update the data base and to list the errors.

Step 4 Used to load the updated data base tape to disk.

Step 5 Used to retrieve updated records.

Step 6 Used to provide a record dump of updated records.

CONGAMON.

This job produces eight monthly reports. Six copies of each report are required.

Step 1 Used to retrieve the records for the current reporting period.

Step 2 Used to publish reports NG03R, NG05R, NG07R, and NG08R.

Step 3 Used to retrieve the records for the current reporting period.

Step 4 Used to publish reports NG09R, NG10R, NG12R, and NG23R.

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CONGAQTR.

This job produces a quarterly report. This job is run only on request.

Step 1. Used to retrieve those records for the current quarter.

Step 2. Used to publish report NG20R.

CONGLLIB.

This job is used to load the backup tape library to disk.

Step 1. Used to uncatalog, catalog and scratch the disk library.

Step 2. Used to load the tape library to disk.

CONGCOPY.

This job is used to produce a tape copy of the 360 data base and the 1410 data base.

Step 1. Used to copy the 360 data base to tape.

Step 2. Used to initialize the tape to be used for the 1410 data base.

Step 3. Used to create the 1410 data base tape.

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```
//CONGAUPD JOB                                                    )274,*
//          5216,16,U,,C,C2,C1*,'CONGAUPD',MSGLEVEL=1,CLASS=I,        X
//          REGION=100K
//JOBLIB  DD  DSNAME=CONGAL,DISP=OLD,UNIT=2314,VOLUME=SER=ND0180
//        DD  DSNAME=FFS.JOBLIB,DISP=SHR
//STEP1  EXEC  PGM=IEHPROGM
//DD1  DD  UNIT=2314,VOLUME=SER=AAA111,DISP=OLD
//DD7  DD  DISP=OLD,UNIT=2314,VOLUME=SER=ND0180
//DD8  DD  DISP=OLD,UNIT=2314,VOLUME=SER=ND0191
//SYSPRINT  DD  SYSOUT=A
//SYSIN  DD  *
 UNCATLG      DSNAME=CONGAL
 UNCATLG      DSNAME=CONGA
 SCRATCH      DSNAME=CONGA,VOL=2314=)ND0180,ND0191*
 CATLG        DSNAME=CONGA,VOL=2314=)ND0180,ND0191*
 CATLG        DSNAME=CONGAL,VOL=2314=ND0180
/*
//STEP2 EXEC PGM=CONGARAO
//SYSOUT     DD  SYSOUT=A
//ERRMSG     DD  SYSOUT=A
//CONGAOUT    DD DSNAME=TRANIN,UNIT=2400-2,DISP=)NEW,PASS*,          X00000
              DCB=)DEN=2,TRTCH=ET,RECFM=F,BLKSIZE=80,LRECL=80*,     X00000
```


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```
//          ,LABEL=),BLP*,VOLUME=SER=SCRTCH
//SYSIN     DD *'          DATA FOLLOWS THIS CARD                    0 0
/*
//STEP3 EXEC XFM,SAM=CONGA,VSAM='SER=)ROTAE1,ROTAE2*',LIB=CONGA,      *00000
//            SAMOUT=,
//            VSMOUT='SER=)OUT1,OUT2*',VLIB='SER=ND0180',GEN='DUMMY,'  00000
//FM.TRANS    DD DSNAME=TRANIN,DISP=)OLD,KEEP*,VOLUME=SER=SCRTCH,     X00000
//            LABEL=),BLP*,UNIT=2400-2,DCB=)DEN=2,LRECL=80,RECFM=F,   *00000
//            BLKSIZE=80,TRTCH=ET*
//FM.FMNDATA  DD DUMMY
//FM.SYSIN DD *
    FMS/UPD   CONGACONGO    MRC                    TAPE
/*
//STEP4 EXEC XSTOIS,ISAM=CONGA,VISAM='SER=)ND0180,ND0191*',SAM=CONGA,  *00000
//            INDEX=3,PRIME=120,OVFLOW=25,VSAM='SER=)OUT1,OUT2*'       00000
//STPI.DATAFILE   DD  VOLUME=SER=ND0180
//                DD  VOLUME=SER=)ND0180,ND0191*
//                DD  VOLUME=SER=ND0191
/*
//STEP5 EXEC  XRASP,ISAM=CONGA,LIB=CONGA
//RASP.SYSIN    DD *
  E CONGA.
```


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```
TITLE NG01R/01.
IF UDATE EQ =JDATS= 0.
SORT -  -,UIC,-          -,SDATE.
/*
//STEP6 EXEC  XOP,ISAM=CONGA,LIB=CONGA
//OP.SYSIN  DD  *
SOURCE RETRIEVAL
PUBLISH RITID=NG01R ANSID=01 CLASS=CONFIDENTIAL
/*
```


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NMCC COMPUTER CENTER	360/50 CONSOLE OPERATING INSTRUCTIONS

1. JOB CODE	2. JOB TITLE	3. REQUESTOR	4. TELEPHONE NO.
274-C	CONGAUPD	Gaylord	OX7-1850

5.	6. FORM PAPER	7. PRINTER COPIES	CARR. TAPE	7. READER	8. PUNCH	9. SECURITY CLASS.
40	Std	1	Std	[x] YES [ ] NO	[ ] YES [X] NO	Conf-4

10. IPL LOAD INFORMATION			11. DISK PACK ASSIGNMENTS		
RDR (DOC)	[ ]	OTHER (SPECIFY)	VOLUME ON 190/191	VOLUME ON 192	
TOS	[ ]			SCRATCH	OTHER (SPECIFY)
OS/360	[X]	MVT			

12. TAPE SET-UP INFORMATION

VOLUME SER. NR	I/P	DENSITY	FP	REEL NO.	7 OR 9 TRACK	LABEL	DISPOSITION
SCRTCH	I/O	800	N		7	TRANIN	SCRATCH
ROTATE	I	800	Y		9	CONGA Rotational Data Base	Save
OUT 1	O	800	N		9	CONGA Rotational Data Base	Save

*ONLY ONE 9 TRACK DRIVE AVAILABLE

13. CONSOLE MESSAGES

MESSAGE	ACTION REQUIRED BY OPERATOR

14. OUTPUT DISK PACKS (NOTE: ALL SAVED DISK PACKS REQUIRE PRIOR WRITTEN JUSTIFICATION)

2311 DRIVE NO.	LABEL	DISPOSITION	RETENTION

IF RUN IS ABORTED - GIV HEX CORE DUMP? [ ] YES [ ] NO

15. 2314/2316 INSTRUCTIONS

PACK I.D.	PACK I.D.	PACK I.D.	PACK I.D.
230 ND018Ø	232	234	236
231	233	235	237

16. SPECIAL INSTRUCTIONS

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```
//CONGAZ2A JOB                                                    )274,C
//          5216,16,U,,C,Z2,01*,'CONGAMON',MSGLEVEL=1,CLASS=I,        X
//          REGION=100K
//JOBLIB  DD  DSNAME=FFS.JOBLIB,DISP=SHR
//STEP1   EXEC  XRASP,SAM=CONGA,LIB=CONGA,VSAM='SER=)N4302,N5504*'
//RASP.SYSIN DD *
FILE CONGA.
TITLE NG03/03.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG.
SORT SDATE 1/4,-        -,-NG-,-A-,SHPTP,UIC.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG.
SORT SDATE 1/4,-        -,-NG-,-B-,SDATE.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND QTYEX GT 0.
SORT SDATE 1/4,-        -,-NG-,-C-,UIC.
IF SDATE 1/4 EQ 6803
AND QTYEX GT 0.
SORT SDATE 1/4,-        -,-NG-,-Y-,CALEX,ORTYP.
IF SDATE 1/4 EQ 6803
```


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```
AND OPCOD EQ NG
AND (LCODE NE - - OR MLQTY NE 0 OR EPKIL NE 0)
AND QTYEX GT 0.
SORT SDATE 1/4,-          -,-NG-,-Z-,UIC,SDATE,RCTRL.
TITLE NG05R/05.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND QTYEX GT 0.
SORT SDATE 1/4,-          -,-NG-,CALEX,ORTYP.
TITLE NG07R/07.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG.
SORT UIC,SDATE,-N-,OPNAM 1/5,ARCOD,-A- ,-          -.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND (LCODE EQ -0 - OR EPKIL GT 0).
SORT UIC,SDATE,-N-,OPNAM 1/5,ARCOD,-B-,PARA3,-          -.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND QTYEX GT 0.
SORT UIC,SDATE,-N-,OPNAM 1/5,ARCOD,-C-,CALEX,ORTYP,SERES 3/3.
TITLE NG08R/08.
```


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UNCLASSIFIED

```
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND QTYEX GT 0
AND  )EPKIL GT 0 OR LCODE EQ -0 - OR SDATE GT 0*.
SORT SDATE 1/4,-          -,-NG-,SDATE.
/*
//STEP2     EXEC  XOP,LIB=CONGA
//OP.SYSIN  DD  *
,OURCE RETRIEVAL
PUBLISH RITID=NG03R ANSID=03 CLASS=CONFIDENTIAL
PUBLISH RITID=NG05R ANSID=05 CLASS=CONFIDENTIAL
PUBLISH RITID=NG07R ANSID=07 CLASS=CONFIDENTIAL
PUBLISH RITID=NG08R ANSID=08 CLASS=CONFIDENTIAL
/*
//STEP3   EXEC  XRASP,SAM=CONGA,LIB=CONGA,VSAM='SER=)N4302,N5504*'
//RASP.SYSIN DD *
FILE CONGA.
TITLE NG09R/09.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND QTYEX GT 0.
SORT SDATE 1/4,-          -,-NG-,ARCOD,CALEX,ORTYP.
```


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```
TITLE NG10R/10.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND QTYEX GT 0.
SORT SDATE 1/4,-        -,-NG-,ARCOD,SHPTP,CALEX,ORTYP.
TITLE NG12R/12.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND ARCOD BT 1/4
AND )NACFT GT 0 OR TSORT GT 0 OR NSEXP GT 0*.
SORT SDATE 1/4,-        -,-NG-,ARCOD,ACTYP.
TITLE NG23R/23.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND PARA3 NE - -.
SORT SDATE 1/4,-        -,-NG-,ARCOD,- -,LCODE,MLUNT,MLDDD.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND EPKIL GT 0.
SORT SDATE 1/4,-        -,-NG-,ARCOD,-A-.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
```


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```
AND FRSET NE - -.
SORT SDATE 1/4,-          -,-NG-,ARCOD,-B-.
IF SDATE 1/4 EQ 6803
AND OPCOD EQ NG
AND DEDAF NE - -.
SORT SDATE 1/4,-          -,-NG-,ARCOD,-C-,DEDAF.
/*
//STEP4     EXEC  XOP,LIB=CONGA
//OP.SYSIN  DD *
SOURCE RETRIEVAL
PUBLISH RITID=NG09R ANSID=09 CLASS=CONFIDENTIAL
PUBLISH RITID=NG10R ANSID=10 CLASS=CONFIDENTIAL
PUBLISH RITID=NG12R ANSID=12 CLASS=CONFIDENTIAL
PUBLISH RITID=NG23R ANSID=23 CLASS=CONFIDENTIAL
/*
```


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NMCC COMPUTER CENTER	360/50 CONSOLE OPERATING INSTRUCTIONS

1. JOB CODE	2. JOB TITLE	3. REQUESTOR	4. TELEPHONE NO.
274-C	CONGAMON	Gaylord	OX7-1850

5.	6. FORM PAPER	7. PRINTER COPIES	CARR. TAPE	7. READER	8. PUNCH	9. SECURITY CLASS.
90	Std	6	Std	[X] YES [ ] NO	[ ] YES [X] NO	CONF-4

10. IPL LOAD INFORMATION			11. DISK PACK ASSIGNMENTS		
RDR (DOC)	[ ]	OTHER (SPECIFY)	VOLUME ON 190/191	VOLUME ON 192	
TOS	[ ]			SCRATCH	OTHER (SPECIFY)
OS/360	[X]	MVT			

12. TAPE SET-UP INFORMATION

VOLUME SER. NR	I/P	DENSITY	FP	REEL NO.	7 OR 9 TRACK	LABEL	DISPOSITION
						No Tapes	

*ONLY ONE 9 TRACK DRIVE AVAILABLE

13. CONSOLE MESSAGES

MESSAGE	ACTION REQUIRED BY OPERATOR

14. OUTPUT DISK PACKS (NOTE: ALL SAVED DISK PACKS REQUIRE PRIOR WRITTEN JUSTIFICATION)

2311 DRIVE NO.	LABEL	DISPOSITION	RETENTION

IF RUN IS ABORTED - GIV HEX CORE DUMP? [ ] YES [ ] NO

15. 2314/2316 INSTRUCTIONS

PACK I.D.	PACK I.D.	PACK I.D.	PACK I.D.
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231	233	235	237

16. SPECIAL INSTRUCTIONS

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UNCLASSIFIED

```
//CONGAQTR JOB                                                    )274,*FORM:
//          5216,16,U,,C,C7,01*,'CONGAQTR',MSGLEVEL=1,CLASS=I,        X
//          REGION=100K
//JOBLIB DD DSNAME=FFS.JOBLIB,DISP=SHR
//STEP1 EXEC XRASP,ISAM=CONGA,LIB=CONGA
//RASP.SYSIN DD *
FILE CONGA.
EXECUTE NG20R )BQDAT=690701,EQDAT=690930*.

//STEP2 EXEC XOP,ISAM=CONGA,LIB=CONGA
//OP.SYSIN DD *
SOURCE RETRIEVAL
PUBLISH RITID=NG20R ANSID=20 CLASS=CONFIDENTIAL
/*
```


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NMCC COMPUTER CENTER	360/50 CONSOLE OPERATING INSTRUCTIONS

1. JOB CODE	2. JOB TITLE	3. REQUESTOR	4. TELEPHONE NO.
274-C	CONGAQTR	Gaylord	OX 71850

5.	6.	7. PRINTER		7. READER	8. PUNCH	9. SECURITY CLASS.
20 min.	FORM PAPER Std	COPIES 1	CARR. TAPE Std	[X] YES [ ] NO	[ ] YES [X] NO	CONF-4

10. IPL LOAD INFORMATION			11. DISK PACK ASSIGNMENTS		
RDR (OOC)	[ ]	OTHER (SPECIFY)	VOLUME ON 190/191	VOLUME ON 192	
TOS	[ ]			SCRATCH	OTHER (SPECIFY)
OS/360	[XX]	MVT/NIPS			

12. TAPE SET-UP INFORMATION

VOLUME SER. NR	I/P	DEN-SITY	FP	REEL NO.	7 OR 9 TRACK	LABEL	DISPOSITION
						No Tapes	

*ONLY ONE 9 TRACK DRIVE AVAILABLE

13. CONSOLE MESSAGES

MESSAGE	ACTION REQUIRED BY OPERATOR

14. OUTPUT DISK PACKS (NOTE: ALL SAVED DISK PACKS REQUIRE PRIOR WRITTEN JUSTIFICATION)

2311 DRIVE NO.	LABEL	DISPOSITION	RETENTION

IF RUN IS ABORTED - GIV HEX CORE DUMP? [ ] YES [ ] NO

15. 2314/2316 INSTRUCTIONS

PACK I.D.	PACK I.D.	PACK I.D.	PACK I.D.
230	232	234	236
231	233 ND0180	235	237

16. SPECIAL INSTRUCTIONS

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```
//CONGLLIB JOB                                                    )274,*
//          5216,17,U,,C,C0,01*,'CONGLLIB',MSGLEVEL=1,CLASS=B,      X
//          REGION=100K
//STEP1 EXEC PGM=IEHPROGM
//SYSPRINT DD SYSOUT=A
//DD2 DD UNIT=2314,VOLUME=SER=ND0180,DISP=OLD
//SYSIN DD *
 UNCATLG DSNAME=CONGAL
 SCRATCH DSNAME=CONGAL
 CATLG DSNAME=CONGAL,VOL=2314=ND0180
/*
//STEP2 EXEC PGM=IEHMOVE,REGION=145K
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD UNIT=2314,VOLUME=SER=W00001,DISP=OLD
//DD2 DD UNIT=TAPE9,DSNAME=CONGAL,LABEL=)2,BLP*,DISP=)PLD,KEEP*,        00
//          DCB=)RECFM=FB,LRECL=80,BLKSIZE=800*,VOLUME=SER=N10606      00
//DD3 DD UNIT=2314,DSNAME=CONGAL,DISP=)OLD,KEEP*,VOLUME=SER=ND0180      00
//SYSIN DD *
 COPY PDS=CONGAL,FROMDD=DD2,TO=2314=ND0180,FROM=2400=N10606
/*
```

NMCC COMPUTER CENTER	360/50 CONSOLE OPERATING INSTRUCTIONS

1. JOB CODE	2. JOB TITLE	3. REQUESTOR	4. TELEPHONE NO.
274-C	CONGLLIB	Gaylord	71850

5.	6. FORM PAPER	7. PRINTER COPIES	CARR. TAPE	7. READER	8. PUNCH	9. SECURITY CLASS.
10 min.	Std	1	Std	[X] YES [ ] NO	[ ] YES [X] NO	CONF-4

10. IPL LOAD INFORMATION			11. DISK PACK ASSIGNMENTS		
RDR (OOC)	[ ]	OTHER (SPECIFY)	VOLUME ON 190/191	VOLUME ON 192	
TOS	[ ]			SCRATCH	OTHER (SPECIFY)
OS/360	[XX]	MVT/NIPS			

12. TAPE SET-UP INFORMATION

VOLUME SER. NR	I/P	DEN-SITY	FP	REEL NO.	7 OR 9 TRACK	LABEL	DISPOSITION
N5718	I	800		N5718	9	CONGA00L LIBRARY	SAVE

*ONLY ONE 9 TRACK DRIVE AVAILABLE

13. CONSOLE MESSAGES

MESSAGE	ACTION REQUIRED BY OPERATOR

14. OUTPUT DISK PACKS (NOTE: ALL SAVED DISK PACKS REQUIRE PRIOR WRITTEN JUSTIFICATION)

2311 DRIVE NO.	LABEL	DISPOSITION	RETENTION

IF RUN IS ABORTED - GIV HEX CORE DUMP? [ ] YES [ ] NO

15. 2314/2316 INSTRUCTIONS

PACK I.D.	PACK I.D.	PACK I.D.	PACK I.D.
230 ND0180	232	234	236
231	233	235	237

16. SPECIAL INSTRUCTIONS

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```
//CONGCOPY JOB                                                    )274,*
//          5216,16,U,,C,C3,01*,'CONGCOPY',MSGLEVEL=1,CLASS=D,      X
//          REGION=100K
//JOBLIB DD DSNAME=FFS.JOBLIB,DISP=SHR
//STEP2 EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSABEND DD  SYSOUT=A
//SYSUT2 DD UNIT=2400-2,LABEL=),BLP*,DISP=),PASS*,VOLUME=SER=CONTP1,   *000
//          DCB=)RECFM=FB,LRECL=80,BLKSIZE=2000,DEN=1,TRTCH=ET*       000
//SYSIN DD DUMMY
//SYSUT1 DD *
/*
//STEP3  EXEC X1410CON,ISAM=CONGA,VISAM='SER=ND0180',SAM=CONGA,         C
//          V1410='SER=CONTP1'
//GO.SYSIN DD *
```


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NMCC COMPUTER CENTER	360/50 CONSOLE OPERATING INSTRUCTIONS

1. JOB CODE	2. JOB TITLE	3. REQUESTOR	4. TELEPHONE NO.
274-C	CONGCOPY	GAYLORD	OX-71850

5.	6. FORM PAPER	7. PRINTER COPIES	CARR. TAPE	7. READER	8. PUNCH	9. SECURITY CLASS.
20 Min.	STD	1	STD	[X] YES [ ] NO	[ ] YES [X] NO	CONF-4

10. IPL LOAD INFORMATION			11. DISK PACK ASSIGNMENTS		
RDR (OOC)	[ ]	OTHER (SPECIFY)	VOLUME ON 190 191	VOLUME ON 192	
TOS	[ ]			SCRATCH	OTHER (SPECIFY)
OS/360	[XXXX]	MVT/NIPS			

12. TAPE SET-UP INFORMATION

VOLUME SER. NR	I/P	DENSITY	FP	REEL NO.	7 OR 9 TRACK	LABEL	DISPOSITION
SCRTCH	O	800		SCR	9	CONGA 360 DATA BASE	SAVE
CONTP1	O	556		SCR	7	CONGA 1410 DATA BASE 1 of 2	SAVE

*ONLY ONE 9 TRACK DRIVE AVAILABLE

13. CONSOLE MESSAGES

MESSAGE	ACTION REQUIRED BY OPERATOR

14. OUTPUT DISK PACKS (NOTE: ALL SAVED DISK PACKS REQUIRE PRIOR WRITTEN JUSTIFICATION)

2311 DRIVE NO.	LABEL	DISPOSITION	RETENTION

IF RUN IS ABORTED - GIV HEX CORE DUMP? [ ] YES [ ] NO

15. 2314/2316 INSTRUCTIONS

PACK I.D.	PACK I.D.	PACK I.D.	PACK I.D.
230 ND0180	232	234	236
231	233	235	237

16. SPECIAL INSTRUCTIONS

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