



# DEPARTMENT OF THE ARMY

SOUTH ATLANTIC DIVISION, CORPS OF ENGINEERS

ROOM 313, 77 FORSYTH ST., S.W.

ATLANTA, GEORGIA 30335-6801

REPLY TO  
ATTENTION OF:

27 DEC 1992

CESAD-PD-R (200)

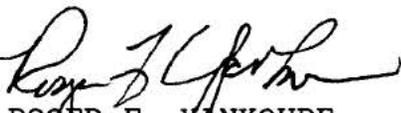
## MEMORANDUM FOR

COMMANDER, USACE, ATTN: CEMP-ZA, WASH DC 20314-1000  
COMMANDER, HUNTSVILLE DIVISION, HUNTSVILLE, AL 35807-4301

SUBJECT: DERP-FUDS Inventory Project Report (INPR), Passage Key  
Air to Ground Gunnery Range, Site No. I04FL040100

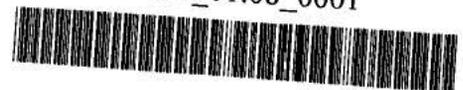
1. The "no further action" INPR for the subject site has been signed and is enclosed for your file.
2. The site was evaluated and determined to be eligible for the DERP-FUDS program, but no unsafe debris, hazardous/toxic waste, or containerized hazardous/toxic waste problems resulting from Department of Defense use were found.
3. Even though there exists the potential for an ordnance and explosive waste project (Risk Assessment Code score is 3), I am recommending no further action due to the unlikelihood that a serious safety hazard exists at the site. The site is a small, 36-acre island, accessible only by boat, and contains little or no vegetation. The island is managed by the USFWS as a National Wildlife Refuge for migratory birds and USFWS personnel interviewed were unaware of any ordnance ever being discovered at the site.
4. If CEHND concurs with our recommendation for no further action, the District will notify the current owners of the "no further action" determination.
5. Questions concerning the INPR should be directed to Gary Mauldin, CESAD-PD-R, at 404-331-6043.

Encl

  
ROGER F. YANKOUBE  
Brigadier General, USA  
Commanding

CF (w/encl):  
CDR, JACKSONVILLE DISTRICT, ATTN: CESAJ-PD-EE

200.1e  
I04FL040101\_01.08\_0001





DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P. O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO  
ATTENTION OF  
CESAJ-PD-EE (1110-2-1150a)

SEP 28 1993

MEMORANDUM FOR Commander, South Atlantic Division

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Site No. I04FL040100, Passage Key Air To Ground Gunnery Range, Florida

1. This INPR reports on the DERP-FUDS Preliminary Assessment of Passage Key Air To Ground Gunnery Range. The Site Survey Summary Sheet and site map are Enclosure 1.
2. We determined that the site was formerly used by the Department of Defense. A recommended Findings and Determination of Eligibility (FDE) is Enclosure 2.
3. We also determined there is hazardous waste at the site eligible for clean-up under DERP-FUDS. The category of hazardous waste is Ordnance and Explosive Waste (OEW). The Project Summary Sheet is Enclosure 3 for the potential OEW project.
4. I recommend that you:
  - a. Approve and sign the FDE.
  - b. Return this INPR to CESAJ for further coordination with the Huntsville Division. This coordination will result in a determination of the need for further study of the former gunnery range.
5. Point of contact is Russ Jones, 904-232-2168.

3 Encls

  
TERRENCE C. SALT  
Colonel, Corps of Engineers  
Commanding

SITE SURVEY SUMMARY SHEET  
FOR  
DERP-FUDS SITE NO. I04FL040100  
PASSAGE KEY AIR TO GROUND GUNNERY RANGE, FL  
17 SEPTEMBER 1993

**SITE NAME:** The site was known as Passage Key Air to Ground Gunnery Range and is now known as Passage Key National Wildlife Refuge.

**LOCATION:** Passage Key is located in Tampa Bay, about ten miles northwest of the city of Bradenton, in Manatee County, Florida.

**SITE HISTORY:** In 1943, the War Department acquired the 36 acre island for a bombing range assigned to the Sarasota Army Airfield. The Third Army Air Force Fighter Unit utilized the bombing range for training purposes during World War II. The War Department returned the site to the Department of Interior in 1946. The site is currently a National Wildlife Refuge for migratory birds and is managed by the U.S. Fish and Wildlife Service.

**SITE VISIT:** The site was not visited by Mr. Russell Jones, CESAJ-PD-EE, because it is an uninhabited island accessible only by boat. On 8 December 1992, Mr. Jones spoke with Mr. Cameron Shaw of the U.S. Fish and Wildlife Service about the island. Mr. Shaw has visited the island. He said the island is small (about 0.5 mile long and 0.1 mile wide), flat, sandy, with little vegetation. He has never seen or heard of ordnance being found on the island.

**Site POC:** Mr. Cameron Shaw  
U.S. Fish and Wildlife Service

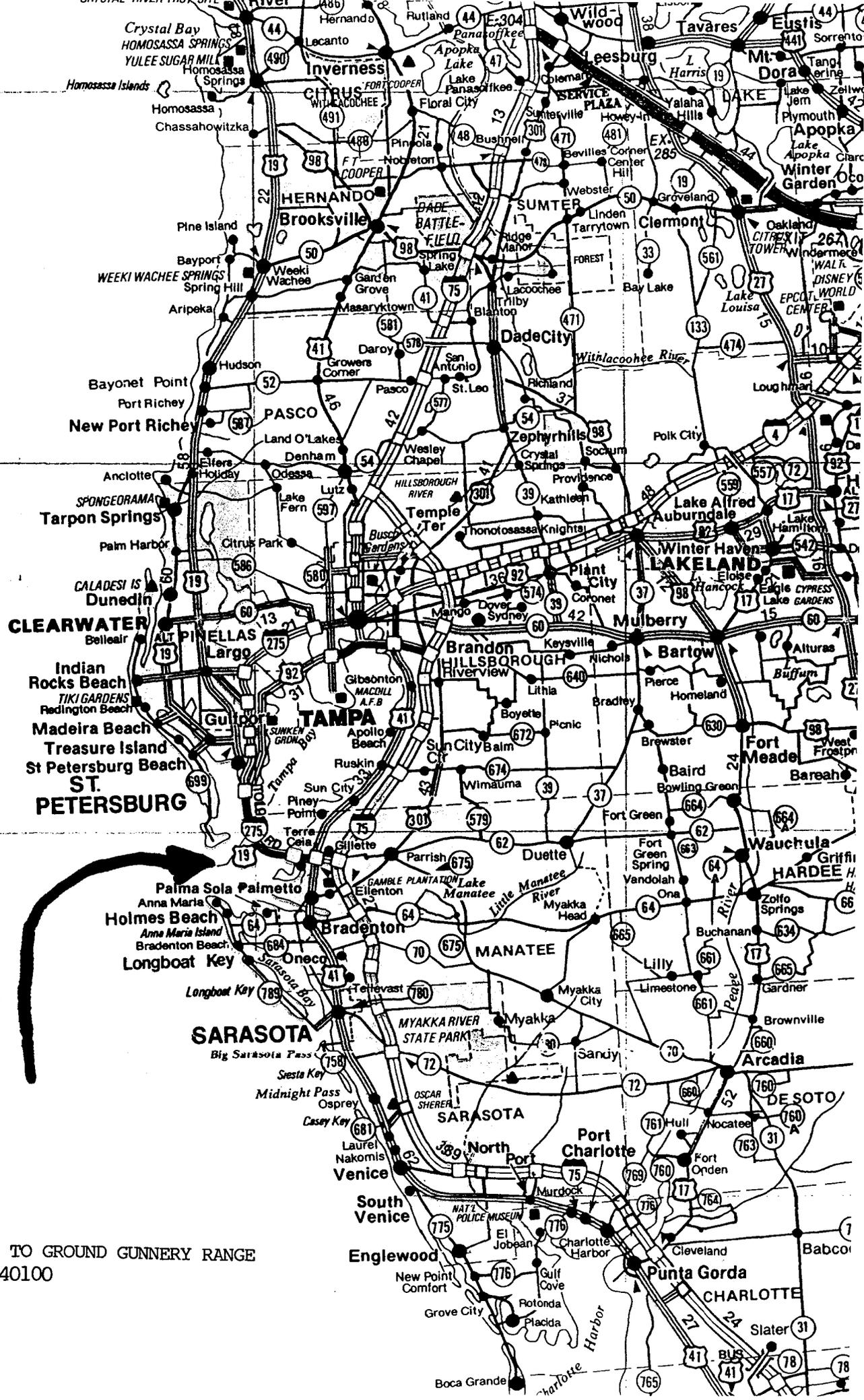
**CATEGORY OF HAZARD:** OEW

**PROJECT DESCRIPTION:** CEHND should make a determination of the need for an investigation of possible subsurface ordnance on the island beyond the scope of the Preliminary Assessment.

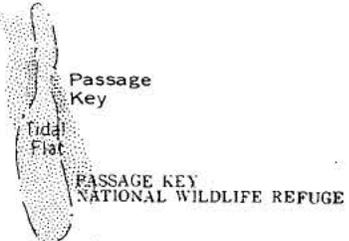
**AVAILABLE STUDIES AND REPORTS:** None.

**DISTRICT POC:** Russ Jones, CESAJ-PD-EE, 904-232-2168.

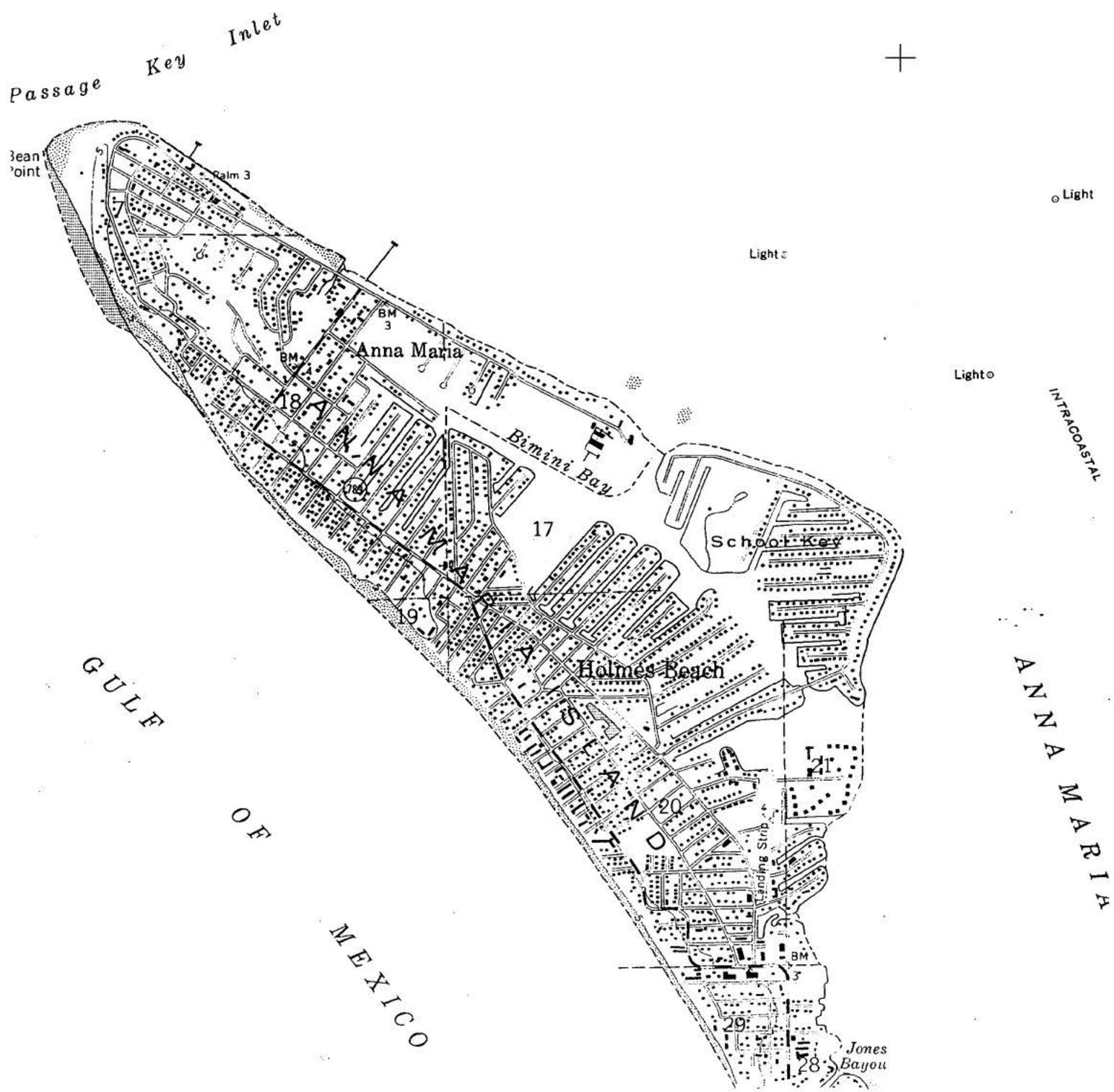
GULF OF MEXICO



PASSAGE KEY AIR TO GROUND GUNNERY RANGE  
SITE NO. IO4FLO40100



PASSAGE KEY AIR TO GROUND GUNNERY RANGE  
SITE NO. I04FL040100



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FORMERLY USED DEFENSE SITES  
FINDINGS AND DETERMINATION OF ELIGIBILITY

Passage Key Air to Ground Gunnery Range, FL

Site No. I04FL040100

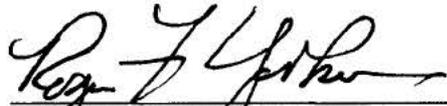
FINDINGS OF FACT

1. On 18 June 1943, the War Department (WD) requested a temporary use permit from the Department of the Interior (DOI), to use a 36.37 acre National Wildlife Refuge Site for a bombing range assigned to the Sarasota Army Air Field. DOI granted the temporary use permit to the WD on 31 August 1943. The site was located in Tampa Bay, about ten miles northwest of the city of Bradenton in Manatee County, Florida, and named Passage Key Air to Ground Gunnery Range.
2. The Third Army Air Force Fighter Unit utilized the bombing range for training purposes during World War II. No information could be located pertaining to any improvements being constructed by the WD or the Army Air Force. Therefore, it is unknown whether or not there were any improvements constructed on the site.
3. The WD determined there was no longer a military necessity for use of the site, the permit was relinquished and the 36.37 acres were returned to the DOI on 22 March 1946. Currently, the site is being used by the DOI as a National Wildlife Refuge for migratory birds, operated by the United States Fish and Wildlife Service.

DETERMINATION

Based on the foregoing findings of fact, the Passage Key Air to Ground Gunnery Range, Florida, has been determined to be formerly used by the Department of Defense. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 USC 2701, et seq.

20/12/93  
DATE

  
\_\_\_\_\_  
ROGER F. YANKOUBE  
Brigadier General, USA  
Commanding

PROJECT SUMMARY SHEET  
FOR  
DERP-FUDS OEW PROJECT NO. I04FL040101  
PASSAGE KEY AIR TO GROUND GUNNERY RANGE, FL  
SITE NO. I04FL040100  
17 SEPTEMBER 1993

PROJECT DESCRIPTION: The Third Army Air Force Fighter Unit stationed at Sarasota Army Airfield used Passage Key as a bombing range for training purposes during World War II. It is uncertain what part of the island was used for this purpose, but because of its small size (36 acres) the whole island has the potential for containing subsurface ordnance. Our records do not indicate what type of ordnance was dropped or fired at the island by the aircraft. Our records also do not show if ordnance clearance was performed by the Army prior to the site being returned to the Department of the Interior. It is apparent that at least surface clearance was conducted.

PROJECT ELIGIBILITY: The project has been evaluated in accordance with Standing Operational Procedures (SOP) for performing Preliminary Assessments at potential OEW sites, dated 26 March 1993.

POLICY CONSIDERATIONS: This potential project appears to satisfy all current policy considerations regarding OEW.

PROPOSED ACTIVITIES: None. The site is a small island with practically no vegetation and is inaccessible to the public, except by boat. The likelihood of this site presenting a safety hazard to the public is small and therefore, does not warrant further study.

RISK ASSESSMENT: A Risk Assessment Code (RAC) of 3 has been assigned to this project (see attached Risk Assessment Procedures). This score was assigned based on the assumption that there are subsurface explosive bombs on the island. However, we are recommending no further action for this site.

DISTRICT POC: Russ Jones, CESAJ-PD-EE, 904-232-2168.

RISK ASSESSMENT PROCEDURES FOR  
ORDNANCE AND EXPLOSIVE WASTE (OEW) SITES

Site Name Passage Key A-T-G Range Rater's Name Russell Jones  
 Site Location Passage Key, Florida Phone No. 904-232-2168  
 DERP Project # ID4FL040101 Organization CESAJ-PD-FE  
 Date Completed September 17, 1993 RAC Score 3

**OEW RISK ASSESSMENT:**

This risk assessment procedure was developed in accordance with MIL-STD 882B and AR 385-10. The RAC score will be used by CEHND to prioritize the remedial action at this site. The OEW risk assessment should be based upon best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) detachment actions, and field observations, interviews, and measurements. This information is used to assess the risk involved based upon the potential OEW hazards identified at the site. The risk assessment is composed of two factors, **hazard severity and hazard probability**. Personnel involved in visits to potential OEW sites should view the CEHND videotape entitled "A Life Threatening Encounter: OEW."

**Part I. Hazard Severity.** Hazard severity categories are defined to provide a qualitative measure of the worst credible mishap resulting from personnel exposure to various types and quantities of unexploded ordnance items.

**TYPE OF ORDNANCE**  
(Circle all values that apply)

**A. Conventional Ordnance and Ammunition**

	VALUE
Medium/Large Caliber (20 mm and larger)	10
Bombs, Explosive	(10)
Grenades, Hand and Rifle, Explosive	10
Landmines, Explosive	10
Rockets, Guided Missiles, Explosive	10
Detonators, Blasting Caps, Fuzes, Boosters, Bursters	6
Bombs, Practice (w/spotting charges)	6
Grenades, Practice (w/spotting charges)	4
Landmines, Practice (w/spotting charges)	4
Small Arms (.22 cal - .50 cal)	1
Conventional Ordnance and Ammunition (Select the largest single value)	10

What evidence do you have regarding conventional OEW? No evidence,  
this is based on a worst case assumption of  
subsurface explosive bombs.

B. Pyrotechnics (For munitions not described above.)

	VALUE
Munition (Container) Containing White Phosphorus or other Pyrophoric Material (i.e., Spontaneously Flammable)	10
Munition Containing A Flame or Incendiary Material (i.e., Napalm, Triethylaluminum Metal Incendiaries)	6
Flares, Signals, Simulators	4
Pyrotechnics (Select the largest single value)	<u>0</u>
What evidence do you have regarding pyrotechnics?	_____

C. Bulk High Explosives (Not an integral part of conventional ordnance; uncontainerized.)

	VALUE
Primary or Initiating Explosives (Lead Styphnate, Lead Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Tetracene, etc.)	10
Demolition Charges	10
Secondary Explosives (PETN, Compositions A, B, C, Teteryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8
Military Dynamite	6
Less Sensitive Explosives (Ammonium Nitrate, Explosive D, etc.)	3
High Explosives (Select the largest single value)	<u>0</u>
What evidence do you have regarding bulk explosives?	_____

D. Bulk Propellants (Not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized)

	VALUE
Solid or Liquid Propellants	6
Propellants	<u>0</u>
What evidence do you have regarding bulk propellants?	_____

E. Radiological/Chemical Agent/Weapons

	VALUE
Toxic Chemical Agents (Choking, Nerve, Blood, Blister)	25
War Gas Identification Sets	20
Radiological	15
Riot Control and Miscellaneous (Vomiting, Tear, incendiary and smoke)	5
Radiological/Chemical Agent (Select the largest single value)	<u>0</u>
What evidence do you have of chemical/radiological OEW?	_____

=====  
**Total Hazard Severity Value** \_\_\_\_\_  
 (Sum of Largest Values for A through E--Maximum of 61).  
**Apply this value to Table 1 to determine Hazard Severity Category.**

**TABLE 1**  
**HAZARD SEVERITY\***

Description	Category	Value
CATASTROPHIC	I	≥21
CRITICAL	II	≥10 <21
MARGINAL	III	≥5 <10
NEGLIGIBLE	IV	≥1 <5
**NONE		0

\* Apply Hazard Severity Category to Table 3.

\*\*If Hazard Severity Value is 0, you do not need to complete Part II. Proceed to Part III and use a RAC Score of 5 to determine your appropriate action.

Part II. Hazard Probability. The probability that a hazard has been or will be created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used DOD site.

AREA, EXTENT, ACCESSIBILITY OF OEW HAZARD  
(Circle all values that apply)

A. Locations of OEW Hazards

	VALUE
On the surface	5
Within Tanks, Pipes, Vessels or Other confined locations.	4
Inside walls, ceilings, or other parts of Buildings or Structures.	3
Subsurface	(2)

Location (Select the single largest value)

What evidence do you have regarding location of OEW? None, but if there is ordnance, it would be subsurface.

B. Distance to nearest inhabited locations or structures likely to be at risk from OEW hazard (roads, parks, playgrounds, and buildings).

	VALUE
Less than 1250 feet	5
1250 feet to 0.5 miles	4
0.5 miles to 1.0 mile	3
1.0 mile to 2.0 miles	(2)
Over 2 miles	1

Distance (Select the single largest value)

What are the nearest inhabited structures? South, on Anna Maria Island.

C. Numbers of buildings within a 2 mile radius measured from the OEW hazard area, not the installation boundary.

	VALUE
26 and over	5
16 to 25	4
11 to 15	3
6 to 10	2
1 to 5	1
0	0

Number of Buildings (Select the single largest value)

5

Narrative Northern end of Anna Maria Island is residential.

D. Types of Buildings (within a 2 mile radius)

	VALUE
Educational, Child Care, Residential, Hospitals, Hotels, Commercial, Shopping Centers	5
Industrial, Warehouse, etc.	4
Agricultural, Forestry, etc.	3
Detention, Correctional	2
No Buildings	0

Types of Buildings (Select the largest single value)

5

Describe types of buildings in the area. Residential area (houses, etc.)

E. Accessibility to site refers to access by humans to ordnance and explosive wastes. Use the following guidance:

BARRIER	VALUE
No barrier or security system	5
Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing.	4
A barrier, (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site.	3
Security guard, but no barrier	2
Isolated site	①
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel) which continuously monitors and controls entry onto the facility; or An artificial or natural barrier (e.g., a fence combined with a cliff), which completely surrounds the facility; and a means to control entry, at all times, through the gates or other entrances to the facility (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the facility).	0

Accessibility (Select the single largest value)

1

Describe the site accessibility. Site is an uninhabited island.

F. Site Dynamics - This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion by beaches or streams, increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.

	VALUE
Expected	⑤
None Anticipated	0
Site Dynamics (Select largest value)	<u>5</u>

Describe the site dynamics. The island is small and flat. Beach erosion is a possibility.

=====  
Total Hazard Probability Value  
(Sum of Largest Values for A through F--Maximum of 30)  
Apply this value to Hazard Probability Table 2 to determine  
Hazard Probability Level.

20

TABLE 2

HAZARD PROBABILITY

Description	Level	Value
FREQUENT	A	≥27
PROBABLE	B	≥21 <27
OCCASIONAL	C	≥15 <21
REMOTE	D	≥ 8 <15
IMPROBABLE	E	<8

\* Apply Hazard Probability Level to Table 3.

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table 3. Enter with the results of the hazard probability and hazard severity values.

TABLE 3

Probability Level		FREQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
Severity Category:						
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	3	4	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

- RAC 1 Imminent Hazard - Expedite INPR - Immediately call CEHND-ED-SY--commercial 205-955-4968 or DSN 645-4968.
- RAC 2 High priority on completion of INPR - Recommend further action by CEHND.
- RAC 3 Complete INPR - Recommend further action by CEHND.
- RAC 4 Complete INPR - Recommend further action by CEHND.
- RAC 5 Recommend no further action. Submit NOFA and RAC to CEHND.

Part IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

There is no evidence of subsurface explosive ordnance (bombs) on this island but this was used as a worst case assumption. It is uncertain what type of ordnance was dropped or fired at this island by aircraft.

Mr. Mauldin/np/16043  
H:DOEWN OFA.GVM

*[Handwritten signature]*  
11/29

21 DEC 1993

CESAD-PD-R (200)

MEMORANDUM FOR

*[Handwritten initials]*

COMMANDER, USACE, ATTN: CEMP-ZA, WASH DC 20314-1000  
COMMANDER, HUNTSVILLE DIVISION, HUNTSVILLE, AL 35807-4301

SUBJECT: DERP-FUDS Inventory Project Report (INPR), Passage Key  
Air to Ground Gunnery Range, Site No. I04FL040100

1. The "no further action" INPR for the subject site has been signed and is enclosed for your file.
2. The site was evaluated and determined to be eligible for the DERP-FUDS program, but no unsafe debris, hazardous/toxic waste, or containerized hazardous/toxic waste problems resulting from Department of Defense use were found.
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5. Questions concerning the INPR should be directed to Gary Mauldin, CESAD-PD-R, at 404-331-6043.

Encl

ROGER F. YANKOUPE  
Brigadier General, USA  
Commanding

*[Handwritten signature]*  
Barnett/PD-S  
*[Handwritten signature]*  
Rushing/PM  
Foreman/PD 11/16/93  
Jones/DX 11/17/12  
Smith/DME 11/20  
Simms/DC 11/20  
Yankoupe/DE 11/20  
PD

*[Handwritten initials]*

CF (w/encl):  
CDR, JACKSONVILLE DISTRICT, ATTN: CESAJ-PD-EE

NOTE: RE, EN, PM, CO, OC, SO reviewed with no comments.

SEE REVERSE FOR MFR

*[Handwritten checkmark]*

=====  
\*\*REVIEW/COMMENT FORM FROM SAD-EN-F (2680) B HORNSBY \*\*

\*\*1 - EN-F DATE RECEIVED: 7 OCT DATE ISSUED: 7 OCT \*\*

\*\*2 - EN- NAME: DATE: COMMENTS? \*\*

\*\*3 - EN-F NAME: BARB DATE: COMMENTS? \*\*

\*\*\*\*\*

\*\*NO. 362 SUBJECT: PASSAGE KEY TO GROUND GUNNERY RANGE \*\*

\* PD MAULDIN \*\*

\*\*\*\*\*

SUSPENSE DATE: 15 OCT 93

\*\*\*\*\*

\*\*COMMENTS: \_\_\_\_\_ \*\*

\*\* *CPC 2/K* \_\_\_\_\_ \*\*

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# ROUTING SLIP

SOUTH ATLANTIC DIVISION, U.S. ARMY CORPS OF ENGINEERS

from: CESAD-PD-R

date: 1 Oct 93

<input type="checkbox"/> EXECUTIVE OFFICE <input type="checkbox"/> Commander <input type="checkbox"/> Deputy Commander (Civil) <input type="checkbox"/> Deputy Commander (Military) <input type="checkbox"/> Executive Assistant  <input type="checkbox"/> SPECIAL ASSISTANTS <input type="checkbox"/> Small & Disadvantaged Business Utilization <input type="checkbox"/> Value Engineering Officer  <input type="checkbox"/> DIRECTORATE OF PROGRAMS & PROJECT MANAGEMENT <input type="checkbox"/> Assistant Director <input type="checkbox"/> Civil Programs Management Division <input type="checkbox"/> Civil Project Management Division <input type="checkbox"/> Military Project Management Division <input checked="" type="checkbox"/> Hazardous/Toxic Waste Restoration & Support for Others Division  <input type="checkbox"/> AFFIRMATIVE ACTION OFFICE <input type="checkbox"/> Equal Employment Opportunity  <input type="checkbox"/> DIRECTORATE OF INFORMATION MANAGEMENT <input type="checkbox"/> Info Rqmts & Planning Division <input type="checkbox"/> Technical Library <input type="checkbox"/> Info Support Services Division <input type="checkbox"/> Comm Design & Ops Branch <input type="checkbox"/> COMSEC Center <input type="checkbox"/> Computer Ops Branch <input type="checkbox"/> Mail & Records Admin Branch <input type="checkbox"/> Customer Assistance Center <input type="checkbox"/> Reprographics Branch <input type="checkbox"/> Applications Support Branch  <input type="checkbox"/> DIRECTORATE OF RESOURCE MANAGEMENT <input type="checkbox"/> Budget & Manpower Division <input type="checkbox"/> Finance & Accounting Division <input type="checkbox"/> Management Analysis Division  <input type="checkbox"/> AUDIT OFFICE <input type="checkbox"/> Internal Review Branch <input type="checkbox"/> Resident IR Office, Charleston <input type="checkbox"/> Contract Audit Branch <input type="checkbox"/> Resident Audit Office, Jacksonville <input type="checkbox"/> Resident Audit Office, Mobile <input type="checkbox"/> Resident Audit Office, Wilmington	DE <input type="checkbox"/> DIRECTORATE OF PLANNING DD <input type="checkbox"/> Assistant Director DM <input type="checkbox"/> Economics & Social Analysis Division DX <input type="checkbox"/> Planning Assistance & Flood Plain Management Services Division <input type="checkbox"/> Environmental Resources Division <input type="checkbox"/> Plan Formulation & Program Management Division  DB VE <input checked="" type="checkbox"/> OFFICE OF COUNSEL  PP <input type="checkbox"/> DIRECTORATE OF ENGINEERING PP-A <input type="checkbox"/> Assistant Director <input checked="" type="checkbox"/> Cost & Value Engineering Division PP-P <input checked="" type="checkbox"/> Geotechnical & Materials Division <input type="checkbox"/> Division Lab <input type="checkbox"/> Geology Branch <input type="checkbox"/> Soils Mechanics Branch PP-C <input type="checkbox"/> Hydrology & Hydraulics Division <input type="checkbox"/> Hydraulics & Coastal Engineering Branch PP-M <input type="checkbox"/> Water Management Branch PP-H <input type="checkbox"/> Technical Engineering Division <input type="checkbox"/> Architectural & Site Development Branch <input type="checkbox"/> Electrical Branch <input type="checkbox"/> Mechanical Branch <input type="checkbox"/> Structural Branch  AA <input type="checkbox"/> DIRECTORATE OF CONSTRUCTION-OPERATIONS AA <input type="checkbox"/> Assistant Director <input checked="" type="checkbox"/> Construction Division <input type="checkbox"/> Chemical Demilitarization <input type="checkbox"/> Construction Management Branch <input type="checkbox"/> Programs Management Branch <input type="checkbox"/> Quality Assurance Branch <input type="checkbox"/> Construction Files <input type="checkbox"/> Operations Division <input type="checkbox"/> Regulatory Branch <input type="checkbox"/> Navigation Branch <input type="checkbox"/> Hydropower Management Division <input type="checkbox"/> Natural Resources Management Division <input type="checkbox"/> Recreation & Program Branch <input type="checkbox"/> Natural Resources Management Branch <input type="checkbox"/> Emergency Management Division <input type="checkbox"/> Natural Disaster Branch <input type="checkbox"/> National Emergency Branch <input type="checkbox"/> Emergency Operations Branch  IM <input type="checkbox"/> DIRECTORATE OF REAL ESTATE IM-P <input type="checkbox"/> Acquisition Division IM-PL <input type="checkbox"/> Appraisal Division IM-S <input checked="" type="checkbox"/> Management & Disposal Division IM-SCC <input type="checkbox"/> Planning & Control Division IM-SO <input type="checkbox"/> DIRECTORATE OF LOGISTICS MANAGEMENT IM-SO <input type="checkbox"/> Assistant Director IM-SO <input type="checkbox"/> Protocol and Conferences IM-SO <input type="checkbox"/> Transportation/Travel IM-SO <input type="checkbox"/> Supply Room IM-SO <input type="checkbox"/> DIRECTORATE OF HUMAN RESOURCES IM-SO <input type="checkbox"/> Assistant Director IM-SO <input type="checkbox"/> Management Employee Relations/Regulatory Services IM-SO <input type="checkbox"/> Training & Development IM-SO <input type="checkbox"/> Position Mgt & Classification IM-SO <input type="checkbox"/> Recruitment & Placement IM-SO <input type="checkbox"/> Military Personnel IM-SO <input type="checkbox"/> Jacksonville Operating Division IM-SO <input type="checkbox"/> Savannah Operating Division IM-SO <input type="checkbox"/> Wilmington Operating Division  RM <input type="checkbox"/> DIRECTORATE OF CONTRACTING RM-3 <input type="checkbox"/> OFFICE OF SECURITY AND LAW ENFORCEMENT RM-4 <input checked="" type="checkbox"/> SAFETY & OCCUPATIONAL HEALTH OFFICE RM-4 <input type="checkbox"/> AIR FORCE REGIONAL CIVIL ENGINEERS EASTERN REGION RM-4 <input type="checkbox"/> HEALTH FACILITIES OFFICE RM-4 <input type="checkbox"/> MANAGEMENT ENGINEERING BRANCH  AO <input type="checkbox"/> ACTION AO-1 <input type="checkbox"/> SIGNATURE AO-1 <input checked="" type="checkbox"/> REVIEW & COMMENT AO-1 <input type="checkbox"/> INFORMATION AO-1 <input type="checkbox"/> APPROVAL AO-1 <input type="checkbox"/> RECOMMENDATION AO-1 <input type="checkbox"/> DRAFT REPLY AO-1 <input type="checkbox"/> FILE AO-1 <input type="checkbox"/> FILE	PD <input type="checkbox"/> DIRECTORATE OF REAL ESTATE PD-S <input type="checkbox"/> Acquisition Division PD-E <input type="checkbox"/> Appraisal Division <input checked="" type="checkbox"/> Management & Disposal Division PD-A <input type="checkbox"/> Planning & Control Division PD-R  PO-P OC EN EN-A EN-B EN-F EN-FL EN-FG EN-FS EN-H EN-HH EN-HW EN-T EN-TA EN-TE EN-TM EN-TS  CO CO-A CO-C CO-CD CO-CM CO-CQ CO-CX CO-O CO-OR CO-ON CO-H CO-R CO-RP CO-RN CO-E CO-ED CO-EE CO-EO  RE RE-C RE-- RE-M RE--  LN LM- LM- LM- LM-  E- EP--  EP-A EP-A EP-A EP-A EP- EP- EP-  C  PA  SO  AFRCE-E  HFO-E  CERM-O
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FOR:  ACTION     SIGNATURE     REVIEW & COMMENT     INFORMATION  
 APPROVAL     RECOMMENDATION     DRAFT REPLY     FILE

REMARKS: DERP FUDS (POSITIVE)

# I04FLO40100

PASSAGE KEY AIR to Ground Gunnery RANGE

We concur in  
The FDE  
10/27/93  
DEW  
5:15 OCT 93

# ROUTING SLIP

SOUTH ATLANTIC DIVISION, U.S. ARMY CORPS OF ENGINEERS

from: CESAD-PD-R

date: 1 Oct 93

<input type="checkbox"/> EXECUTIVE OFFICE <input type="checkbox"/> Commander <input type="checkbox"/> Deputy Commander (Civil) <input type="checkbox"/> Deputy Commander (Military) <input type="checkbox"/> Executive Assistant  <input type="checkbox"/> SPECIAL ASSISTANTS <input type="checkbox"/> Small & Disadvantaged Business Utilization <input type="checkbox"/> Value Engineering Officer  <input type="checkbox"/> DIRECTORATE OF PROGRAMS & PROJECT MANAGEMENT <input type="checkbox"/> Assistant Director <input type="checkbox"/> Civil Programs Management Division <input type="checkbox"/> Civil Project Management Division <input type="checkbox"/> Military Project Management Division <input checked="" type="checkbox"/> Hazardous/Toxic Waste Restoration & Support for Others Division  <input type="checkbox"/> AFFIRMATIVE ACTION OFFICE <input type="checkbox"/> Equal Employment Opportunity  <input type="checkbox"/> DIRECTORATE OF INFORMATION MANAGEMENT <input type="checkbox"/> Info Rmpts & Planning Division <input type="checkbox"/> Technical Library <input type="checkbox"/> Info Support Services Division <input type="checkbox"/> Comm Design & Ops Branch <input type="checkbox"/> COMSEC Center <input type="checkbox"/> Computer Ops Branch <input type="checkbox"/> Mail & Records Admin Branch <input type="checkbox"/> Customer Assistance Center <input type="checkbox"/> Reprographics Branch <input type="checkbox"/> Applications Support Branch  <input type="checkbox"/> DIRECTORATE OF RESOURCE MANAGEMENT <input type="checkbox"/> Budget & Manpower Division <input type="checkbox"/> Finance & Accounting Division <input type="checkbox"/> Management Analysis Division  <input type="checkbox"/> AUDIT OFFICE <input type="checkbox"/> Internal Review Branch <input type="checkbox"/> Resident IR Office, Charleston <input type="checkbox"/> Contract Audit Branch <input type="checkbox"/> Resident Audit Office, Jacksonville <input type="checkbox"/> Resident Audit Office, Mobile <input type="checkbox"/> Resident Audit Office, Wilmington	DE <input type="checkbox"/> DIRECTORATE OF PLANNING DD <input type="checkbox"/> Assistant Director DM <input type="checkbox"/> Economics & Social Analysis Division DX <input type="checkbox"/> Planning Assistance & Flood Plain Management Services Division <input type="checkbox"/> Environmental Resources Division <input type="checkbox"/> Plan Formulation & Program Management Division  DB VE  <input checked="" type="checkbox"/> OFFICE OF COUNSEL  PP <input type="checkbox"/> DIRECTORATE OF ENGINEERING PP-A <input type="checkbox"/> Assistant Director <input checked="" type="checkbox"/> Cost & Value Engineering Division PP-P <input checked="" type="checkbox"/> Geotechnical & Materials Division <input type="checkbox"/> Division Lab <input type="checkbox"/> Geology Branch <input type="checkbox"/> Soils Mechanics Branch PP-C <input type="checkbox"/> Hydrology & Hydraulics Division <input type="checkbox"/> Hydraulics & Coastal Engineering Branch <input type="checkbox"/> Water Management Branch PP-M <input type="checkbox"/> Technical Engineering Division <input type="checkbox"/> Architectural & Site Development Branch <input type="checkbox"/> Electrical Branch <input type="checkbox"/> Mechanical Branch <input type="checkbox"/> Structural Branch PP-H  AA <input type="checkbox"/> DIRECTORATE OF CONSTRUCTION-OPERATIONS AA <input type="checkbox"/> Assistant Director <input checked="" type="checkbox"/> Construction Division <input type="checkbox"/> Chemical Demilitarization Construction Management Branch <input type="checkbox"/> Programs Management Branch <input type="checkbox"/> Quality Assurance Branch <input type="checkbox"/> Construction Files <input type="checkbox"/> Operations Division <input type="checkbox"/> Regulatory Branch <input type="checkbox"/> Navigation Branch <input type="checkbox"/> Hydropower Management Division <input type="checkbox"/> Natural Resources Management Division <input type="checkbox"/> Recreation & Program Management Branch <input type="checkbox"/> Natural Resources Management Branch <input type="checkbox"/> Emergency Management Division <input type="checkbox"/> Natural Disaster Branch <input type="checkbox"/> National Emergency Branch <input type="checkbox"/> Emergency Operations Branch  IM <input type="checkbox"/> DIRECTORATE OF REAL ESTATE IM-P <input type="checkbox"/> Acquisition Division IM-PL <input type="checkbox"/> Appraisal Division IM-S <input checked="" type="checkbox"/> Management & Disposal Division IM-SCC <input type="checkbox"/> Planning & Control Division IM-SO <input type="checkbox"/> Assistant Director IM-SR <input type="checkbox"/> Protocol and Conferences IM-C <input type="checkbox"/> Transportation/Travel IM-CR <input type="checkbox"/> Supply Room IM-CS  RM <input type="checkbox"/> DIRECTORATE OF LOGISTICS MANAGEMENT RM-B <input type="checkbox"/> Assistant Director RM-F <input type="checkbox"/> Protocol and Conferences RM-M <input type="checkbox"/> Transportation/Travel <input type="checkbox"/> Supply Room  AO <input type="checkbox"/> DIRECTORATE OF HUMAN RESOURCES AO-H <input type="checkbox"/> Assistant Director AO-K <input type="checkbox"/> Management Employee Relations/Regulatory Services AO-KJ <input type="checkbox"/> Training & Development AO-KM <input type="checkbox"/> Position Mgt & Classification AO-KW <input type="checkbox"/> Recruitment & Placement <input type="checkbox"/> Military Personnel <input type="checkbox"/> Jacksonville Operating Division <input type="checkbox"/> Savannah Operating Division <input type="checkbox"/> Wilmington Operating Division  CO <input type="checkbox"/> DIRECTORATE OF CONTRACTING CO-A <input type="checkbox"/> OFFICE OF SECURITY AND LAW ENFORCEMENT CO-C <input checked="" type="checkbox"/> SAFETY & OCCUPATIONAL HEALTH OFFICE CO-CD <input type="checkbox"/> AIR FORCE REGIONAL CIVIL ENGINEER: CO-CM <input type="checkbox"/> EASTERN REGION CO-CQ <input type="checkbox"/> HEALTH FACILITIES OFFICE CO-CX <input type="checkbox"/> MANAGEMENT ENGINEERING BRANCH CO-O <input type="checkbox"/> AIR FORCE REGIONAL CIVIL ENGINEER: CO-OR <input type="checkbox"/> EASTERN REGION CO-ON <input type="checkbox"/> HEALTH FACILITIES OFFICE CO-R <input type="checkbox"/> MANAGEMENT ENGINEERING BRANCH CO-OR <input type="checkbox"/> AIR FORCE REGIONAL CIVIL ENGINEER: CO-OR <input type="checkbox"/> EASTERN REGION CO-OR <input type="checkbox"/> HEALTH FACILITIES OFFICE CO-OR <input type="checkbox"/> MANAGEMENT ENGINEERING BRANCH	RE-1 RE-2 RE-3 RE-4  LM LM-1 LM-2 LM-3 LM-4  EF EP-1 EP-2 EP-3 EP-4 EP-5 EP-6 EP-7 EP-8 EP-9  C  PA HFC-E CERM-O
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FOR:  ACTION     SIGNATURE     REVIEW & COMMENT     INFORMATION  
 APPROVAL     RECOMMENDATION     DRAFT REPLY     FILE

REMARKS: DERP FUDS (POSITIVE)  
# I04FLO40100  
PASSAGE KEY AIR to Ground Gunnery RANGE  
No Comment  
Jellous  
SO  
DEW  
5:15 Oct 93



**ROUTING AND TRANSMITTAL SLIP**

Date

4 Oct 93

TO: (Name, office symbol, room number, building, Agency/Post)		Initials	Date
1.	Mauldin PD-R		
2.			
3.			
4.			
5.			

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

**REMARKS**

No comments  
 1. Perry Bombing Gunnery Range  
 2. Passage Key Air to Ground Gunnery Range

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)	Room No.—Bldg.
	Phone No.

*Bob Lloyd* 1-6748

5041-102

GPO : 1987 0 - 192-783

OPTIONAL FORM 41 (Rev. 7-76)  
 Prescribed by GSA  
 FPMR (41 CFR) 101-11.206

# ROUTING SLIP

SOUTH ATLANTIC DIVISION, U.S. ARMY CORPS OF ENGINEERS

om: CESAD-PD-R

date: 1 Oct 93

## EXECUTIVE OFFICE

Commander  
Deputy Commander (Civil)  
Deputy Commander (Military)  
Executive Assistant

## SPECIAL ASSISTANTS

Small & Disadvantaged Business Utilization  
Value Engineering Officer

## DIRECTORATE OF PROGRAMS & PROJECT MANAGEMENT

Assistant Director  
Civil Programs Management Division  
Civil Project Management Division  
Military Project Management Division  
Hazardous/Toxic Waste Restoration & Support for Others Division

## AFFIRMATIVE ACTION OFFICE

Equal Employment Opportunity

## DIRECTORATE OF INFORMATION MANAGEMENT

Info Rmmts & Planning Division  
Technical Library  
Info Support Services Division  
Comm Design & Ops Branch  
 COMSEC Center  
 Computer Ops Branch  
 Mail & Records Admin Branch  
Customer Assistance Center  
 Reprographics Branch  
 Applications Support Branch

## DIRECTORATE OF RESOURCE MANAGEMENT

Budget & Manpower Division  
Finance & Accounting Division  
Management Analysis Division

## AUDIT OFFICE

Internal Review Branch  
Resident IR Office, Charleston  
Contract Audit Branch  
Resident Audit Office, Jacksonville  
Resident Audit Office, Mobile  
Resident Audit Office, Wilmington

DE  DIRECTORATE OF PLANNING  
DD  Assistant Director  
DM  Economics & Social Analysis Division  
DX  Planning Assistance & Flood Plain Management Services Division  
 Environmental Resources Division  
 Plan Formulation & Program Management Division

## OFFICE OF COUNSEL

## DIRECTORATE OF ENGINEERING

PP  Assistant Director  
PP-A  Cost & Value Engineering Division  
PP-P  Geotechnical & Materials Division  
 Division Lab  
PP-C  Geology Branch  
 Soils Mechanics Branch  
PP-M  Hydrology & Hydraulics Division  
PP-H  Hydraulics & Coastal Engineering Branch  
 Water Management Branch  
AA  Technical Engineering Division  
AA  Architectural & Site Development Branch  
 Electrical Branch  
IM  Mechanical Branch  
IM-P  Structural Branch

## DIRECTORATE OF CONSTRUCTION-OPERATIONS

IM-SCC  Assistant Director  
IM-SO  Construction Division  
IM-SR  Chemical Demilitarization  
IM-C  Construction Management Branch  
IM-CR  Programs Management Branch  
IM-CS  Quality Assurance Branch  
 Construction Files  
 Operations Division  
RM  Regulatory Branch  
RM-B  Navigation Branch  
RM-F  Hydro-power Management Division  
RM-M  Natural Resources Management Division  
 Recreation & Program Branch  
 Natural Resources Management Branch  
AO  Emergency Management Division  
AO-C  Natural Disaster Branch  
AO-K  National Emergency Branch  
AO-KM  Emergency Operations Branch  
AO-KW

PD  DIRECTORATE OF REAL ESTATE  
PD-S  Acquisition Division  
PD-E  Appraisal Division  
PD-A  Management & Disposal Division  
PD-R  Planning & Control Division

## DIRECTORATE OF LOGISTICS MANAGEMENT

OC  Assistant Director  
 Protocol and Conferences  
 Transportation/Travel  
EN  Supply Room

## DIRECTORATE OF HUMAN RESOURCES

EN-A  Assistant Director  
EN-B  Management Employee Relations/Regulatory Services  
EN-F  Training & Development  
EN-FL  Position Mgt & Classification  
EN-FG  Recruitment & Placement  
EN-FS  Military Personnel  
EN-H  Jacksonville Operating Division  
EN-HH  Savannah Operating Division  
EN-HW  Wilmington Operating Division  
EN-T

## DIRECTORATE OF CONTRACTING

## OFFICE OF SECURITY AND LAW ENFORCEMENT

## SAFETY & OCCUPATIONAL HEALTH OFFICE

## AIR FORCE REGIONAL CIVIL ENGINEERS EASTERN REGION

## HEALTH FACILITIES OFFICE

## MANAGEMENT ENGINEERING BRANCH

DR:  ACTION  SIGNATURE  REVIEW & COMMENT  INFORMATION  
 APPROVAL  RECOMMENDATION  DRAFT REPLY  FILE

REMARKS: DERP FUDS (POSITIVE)

# I04FLO40100

PASSAGE KEY AIR TO Ground Gunnery RANGE

*ORW*

S: 15 OCT 93

*GARY MAULDIN*

# ROUTING SLIP

SOUTH ATLANTIC DIVISION, U.S. ARMY CORPS OF ENGINEERS

From: CESAD-PD-R

date: 1 Oct 93

- EXECUTIVE OFFICE
  - Commander
  - Deputy Commander (Civil)
  - Deputy Commander (Military)
  - Executive Assistant
- SPECIAL ASSISTANTS
  - Small & Disadvantaged Business Utilization
  - Value Engineering Officer
- DIRECTORATE OF PROGRAMS & PROJECT MANAGEMENT
  - Assistant Director
  - Civil Programs Management Division
  - Civil Project Management Division
  - Military Project Management Division
  - Hazardous/Toxic Waste Restoration & Support for Others Division
- AFFIRMATIVE ACTION OFFICE
  - Equal Employment Opportunity
- DIRECTORATE OF INFORMATION MANAGEMENT
  - Info Rmmts & Planning Division
  - Technical Library
  - Info Support Services Division
  - Comm Design & Ops Branch
  - COMSEC Center
  - Computer Ops Branch
  - Mail & Records Admin Branch
  - Customer Assistance Center
  - Reprographics Branch
  - Applications Support Branch
- DIRECTORATE OF RESOURCE MANAGEMENT
  - Budget & Manpower Division
  - Finance & Accounting Division
  - Management Analysis Division
- AUDIT OFFICE
  - Internal Review Branch
  - Resident Audit Office, Charleston
  - Contract Audit Branch
  - Resident Audit Office, Jacksonville
  - Resident Audit Office, Mobile
  - Resident Audit Office, Wilmington

- DE  DIRECTORATE OF PLANNING
  - DD  Assistant Director
  - DM  Economics & Social Analysis Division
  - DX  Planning Assistance & Flood Plain Management Services Division
  - Environmental Resources Division
  - Plan Formulation & Program Management Division
- DB
- VE  OFFICE OF COUNSEL
- PP  DIRECTORATE OF ENGINEERING
  - PP-A  Assistant Director
  - Cost & Value Engineering Division
  - PP-P  Geotechnical & Materials Division
    - Division Lab
    - Geology Branch
    - Soils Mechanics Branch
  - PP-C  Hydrology & Hydraulics Division
    - Hydraulics & Coastal Engineering Branch
    - Water Management Branch
  - PP-M  Technical Engineering Division
    - Architectural & Site Development Branch
    - Electrical Branch
    - Mechanical Branch
    - Structural Branch
- AA  DIRECTORATE OF CONSTRUCTION-OPERATIONS
  - IM  Assistant Director
  - IM-P  Construction Division
    - Chemical Demilitarization
    - Construction Management Branch
    - Programs Management Branch
    - Quality Assurance Branch
    - Construction Files
  - IM-PL  Operations Division
    - Regulatory Branch
    - Navigation Branch
  - IM-S  Hydropower Management Division
  - IM-SCC  Natural Resources Management Division
    - Recreation & Program Branch
    - Natural Resources Management Branch
  - IM-SO  Emergency Management Division
    - Natural Disaster Branch
    - National Emergency Branch
    - Emergency Operations Branch
  - IM-SR  Natural Resources Management Division
  - IM-C  Emergency Management Division
  - IM-CR  Natural Disaster Branch
  - IM-CS  National Emergency Branch
- RM  Emergency Operations Branch
- RM-B
- RM-F
- RM-M
- AO  DIRECTORATE OF REAL ESTATE
  - AO-H  Acquisition Division
  - AO-IC  Appraisal Division
  - AO-K  Management & Disposal Division
  - AO-KJ  Planning & Control Division
  - AO-KM
  - AO-KW

- PD  DIRECTORATE OF REAL ESTATE
  - PD-S  Acquisition Division
  - PD-E  Appraisal Division
  - PD-A  Management & Disposal Division
  - PD-R  Planning & Control Division
- PO-P  DIRECTORATE OF LOGISTICS MANAGEMENT
  - OC  Assistant Director
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  - EN-H  Jacksonville Operating Division
  - EN-HH  Savannah Operating Division
  - EN-HW  Wilmington Operating Division
  - EN-T  Jacksonville Operating Division
  - EN-TA  Savannah Operating Division
  - EN-TE  Wilmington Operating Division
  - EN-TM
  - EN-TS
- CO  DIRECTORATE OF CONTRACTING
  - CO-A
  - CO-C
  - CO-CD
  - CO-CM
  - CO-CQ
  - CO-CX
  - CO-O
  - CO-OR
  - CO-ON
  - CO-H
  - CO-R
  - CO-CP
  - CO-RN
  - CO-E
  - CO-ED
  - CO-EE
  - CO-EO
- SO  OFFICE OF SECURITY AND LAW ENFORCEMENT
- AFRCE-E  SAFETY & OCCUPATIONAL HEALTH OFFICE
- HFCO-E  AIR FORCE REGIONAL CIVIL ENGINEERS EASTERN REGION
- CERM-O  HEALTH FACILITIES OFFICE
- CERM-O  MANAGEMENT ENGINEERING BRANCH

DR:  ACTION     SIGNATURE     REVIEW & COMMENT     INFORMATION  
 APPROVAL     RECOMMENDATION     DRAFT REPLY     FILE

REMARKS: DERP FUDS (POSITIVE)  
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PASSAGE KEY AIR to Ground Gunnery RANGE  
DEW  
S: 15 OCT 93