

Appendix F

NSS Characterization Report September 22, 2005 Revision 0 Page 1 of 27

Appendix F Radiation Work Permits

Radiation Work Permits (RWPs) are used to control radiological work by specifying dress requirements for a job, respiratory protection requirements, dosimetry requirements, and work restrictions. Special work instructions may be added to protect members of the project.

RWPs were written for a specific function, such as entering primary containment when radiological conditions were unknown. Other RWPs were written more generally once the radiological conditions were determined.

RWPs were closed when they no longer applied or an area was cleared of any radiological restrictions. Several RWPs were modified to reflect changing radiological conditions.

All active RWPs were posted near the instrument storage area to permit easy access for project members. A briefing was conducted whenever a RWP was created or modified. Project members signed onto the RWP after they were briefed.

The thirteen RWPs written to control the various phases of radiological work during this project include the following:

- Stateroom B-1, Rad Waste Storage
- Health Physics Lab at Hospital
- Port and Starboard Stabilizer Rooms
- Fan Room, B Deck, across from Stateroom B-1
- Port and Starboard Charge Pump Rooms, lower level of engine room
- Hot Chemistry Lab next to Control Room
- Cold Chemistry Lab, Port side "C" Deck
- Entry into Secondary Containment from Hatch on "B" Deck
- Lower level of Secondary Containment
- Entry into Primary Containment from Secondary Containment
- Lower levels of Primary Containment
- Primary and Secondary Containment, all levels
- Opening of steam generators, primary side

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-12-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

To: RADIATION SAFETY OFFICER	From:	
	R. towstoulcy	
A. Compartment or space to be entered:	B. Date(s) to be entered:	
LOWER LEURIS OF PHIMMY CONTHIMMARM	b. Date(s) to be efficient.	
(BALOW 148 LIEVAL)		
B. Reason for entry (type work or inspection to be performed	l, etc):	
TAKA PAINT & MATTIL SAMPLES		
D. Motorial equipment machinem nexts as a second of the se	- L	
D. Material, equipment, machinery, parts, components, etc. to be removed:		
Surge CRS		
•		
E. Number of personnel required to perform work or inspection: 3		
F. Identification of Person submitting request (name, title, phone, fax, email, etc.):		
RJO10 Stoney, PM, 804 938.1261		
2000cy, 100, 004 458.1261		
Permission for Work Authorization and Entry is approved based on information submitted above,		
subject to the following conditions: AS INDICATRIS ON FIRM F-2 FRATRY INSTRUCTIONS		
LASTHUGIONE		
Signature (2) At (1)		
Signature: Koli Hel unnerh	Date: 1/-12-05	

4-15-05 RUP CLOSUP Rold of Sumuel

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date: 4-/2-05

A Work Authorization Request (Form F-1) must be submitted and approved prior to entry into any Radiation Control Areas aboard the N/S SAVANNAH. Control Areas are defined as any space, compartment, or area designated as a Radiation Area due to the presence of radioactivity, radiation sources, residual radioactivity, or radioactive contamination in the space or on equipment, in systems, etc. These areas are posted with the appropriate radiation caution signs. Entry into Control Areas should be made with the minimum number of persons required to perform the work or inspection. Time required to perform work or inspections should be as short as possible to prevent unnecessary radiation exposure to personnel.		
A. Compartment or space to be entered: Lower Lieurs or Primney Compaining 4-13-65 8:30 AM (Brecow 1st Lieure)		
C. Protective Clothing Shall be worn as follows: 1. Anti-C Suits (coveralls)		
D. Personnel Dosimeters Shall be worn by each worker: YES NO E, Record of Personnel Exposure Shall be maintained: YES NO (Maintain Personnel Exposure Record on form C-1)		
F. Record of Numbered Security Seals: Number on seal removed: Removed By: Number on seal installed: Installed By: G. Other Information: FRISK HAMING & FRAT AT SOP UPON FEXIT,		
PENSONINEL SIGN ON: Rel 19 Pennoch State AM PREPLACION 4-12-35 AM 15-05 AM 19 Manual Born 1		

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date:

4-14-05

INSTRUCTIONS AND REQUIRMENTS FOR ENTRY INTO RADIATION CONTROL AREAS AND COMPARTMENTS

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Radiation Control Areas aboard the N/S SAVANNAH. C compartment, or area designated as a Radiation Area due sources, residual radioactivity, or radioactive contamination. These areas are posted with the appropriate radiation caut made with the minimum number of persons required to perform work or inspections should be as short as possible personnel.	to the presence of radioactivity, radiation on in the space or on equipment, in systems, etc. tion signs. Entry into Control Areas should be erform the work or inspection. Time required to
A. Compartment or space to be entered: Opening 60 Giran Gan.	B. Date and time entered: 4-20-05 4-21-05 4-22-05 - +44
	Coversirators
D. Personnel Dosimeters Shall be worn by each worker:	YESVNO
E, Record of Personnel Exposure Shall be maintained: (Maintain Personnel Exposure	
Number on seal installed: Installed By	
G. Other Information: HAMINUR SUNUPLIES CA. CONTROL PARCTICIAS: SUNUMIN W OF JOB.	The second section is a production of the control o
Parsonmer Sien on 14 Rollburnort Min. S.	25-05 WORK Pome SySTAM CLOSAD. RUP CLOSAD Hally MINE

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-19-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

To: RADIATION SAFETY OFFICER	From: John W. Bowen	
A. Compartment or space to be entered: OPIEMING OF STERM GENGRATOR	B. Date(s) to be entered: 4/-20-05- 4/-21-05 4-12-05	
B. Reason for entry (type work or inspection to be performed, etc): [INSPECTION SMEAR SURVEY DOSE RATE SURVEY		
D. Material, equipment, machinery, parts, components, etc. to be removed:		
E. Number of personnel required to perform work or inspection: 3		
F. Identification of Person submitting request (name, title, phone, fax, email, etc.): John Bowen Chief Engineer 804, 615, 1118 John-bowen @WPi. h.2 804, 789, 1576		
Permission for Work Authorization and Entry is approved based on information submitted above, subject to the following conditions: FULL DRIEGS 145 GARCIFIED ON G-2 IENTRY INSTRUCTION		
Signature: Roll & Lennock	Date: 4-19-65	

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date:

4-4-05

A Work Authorization Request (Form F-1) must be submitted and approved prior to entry into any Radiation Control Areas aboard the N/S SAVANNAH. Control Areas are defined as any space, comparament, or area designated as a Radiation Area due to the presence of radioactivity, radiation sources, residual radioactivity, or radioactive contamination in the space or on equipment, in systems, etc. These areas are posted with the appropriate radiation caution signs. Entry into Control Areas should be made with the minimum number of persons required to perform the work or inspection. Time required to perform work or inspections should be as snort as possible to prevent unnecessary radiation exposure to personnel.		
A. Compartment or space to be entered: STATEROOM BY BRECK RAID WASTE STORAGE ARAC	B. Date and time entered: 4-4-05 9:30 AM	
C. Protective Clothing Shall be worn as follows:		
	Covers	
3. Gloves	rators	
D. Personnel Desimeters Shall be worn by each weller.		
E, Record of Personnel Exposure Shall be maintained: (Maintain Personnel Exposure	The state of the s	
r. Kecord of Numbered Security Seals: Number on seal removed: Number on seal installed: Installed By	15	
G. Other Information: FRISK HINNIS & FRET UPON I. PERSONNEL SICH ON Ralifellingsh James H. Lawrench Lawrench Lawrench James H. Lawrench Jawes H. Lawrench Ja	ExiT No STEP OFF PID REGULARD. 14-15-65 ARRI CLARRAD NOTHING RAGULARD FOR FENTRY ROLLING POSTRET Complete, RUP LOGAN ROLLING ROLLI	

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-4-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

	O O T CARTO ESTRACES	
To: RADIATION SAFETY OFFICER	From:	
	John W. Bouren	
A. Compartment or space to be entered:	B. Date(s) to be entered:	
13 DECK STATEROOM 13-1	4-4-05	
RAPIDACTIVIZ WASTA STORICE ARAA		
B. Reason for entry (type work or inspection to be performed	l, etc):	
TO PERFORM INSPECTION, SMAIR SUZURY		
FRISK OF RAID WAGTE STORACE ARKA		
D. Material, equipment, machinery, parts, components, etc. to be removed:		
NOME		
E. Number of personnel required to perform work or inspecti	on: 3	
Tohn W. Bowen Proj. Engineer Ph. 804.615.1118		
Ph 804.615.1118 F 804789 1476		
eman: john-bowene wpi. biz		
Permission for Work Authorization and Entry is approved based on information submitted above,		
subject to the following conditions: As LIGTRIT ON "ENTRY INSTRUCTIONS AMIN		
Rieguraminits" FORM F-2		
Signatura:		
Signature: At li (2) small	Date: 4-4-65	

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date:

4-8-05

INSTRUCTIONS AND REQUIRMENTS FOR ENTRY INTO RADIATION CONTROL AREAS AND COMPARTMENTS

A Work Authorization Request (Form F-1) must be submitted and approved prior to entry into any

Radiation Control Areas aboard the N/S SAVANNAH. Control Areas are defined as any space, compartment, or area designated as a Radiation Area due to the presence of radioactivity, radiation sources, residual radioactivity, or radioactive contamination in the space or on equipment, in systems, etc. These areas are posted with the appropriate radiation caution signs. Entry into Control Areas should be made with the minimum number of persons required to perform the work or inspection. Time required to perform work or inspections should be as short as possible to prevent unnecessary radiation exposure to personnel.		
A. Compartment or space to be entered: PASCAGE PUMP ROOM 5 PONT & STAR CHARGE	B. Date and time entered:	
C. Protective Clothing Shall be worn as follows:		
1. Anti-C Suits (coveralls) 2. Sho	e Covers	
3. Gloves	pirators	
5. Hoods (head cover) 6		
D. Personnel Dosimeters Shall be worn by each worker:	YES_/_ NO	
E, Record of Personnel Exposure Shall be maintained: YES NO (Maintain Personnel Exposure Record on form C-1)		
F. Record of Numbered Security Seals:		
Number on seal removed: Removed	By:	
Number on seal installed: Installed I	By:	
G. Other Information: FRISK WHOLE BOMY Upom EXITAT SOP. NO ENTRY UNTIL CLEARIED WITH AIN SAMPLE POR HIRBORNE PRADIOACTIVITY		
B_{0} C_{0}	-1-14-05 CHARGE PURA ROOMS CLEARED - DOSINAITER GHLY EN IZMTRY RAPERMAN	
, , , , , , , , , , , , , , , , , , , ,	25-05 PROJECT COMPLIE UP CLOSEP ME/Jumah	
1487eldel Ri	11 (104M1) 1/1/ Junal	

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-8-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

To: RADIATION SAFETY OFFICER	From: R. tow Stouky	
A. Compartment or space to be entered: SORGE PUMP ROOM PORT & STARB. CHARCIE	B. Date(s) to be entered: 4-8-05	
B. Reason for entry (type work or inspection to be performed, etc): IMSPIECTION, SMEAR SURVEY, FRIGH SURVEY, AND DOGE RATE SURVEY		
D. Material, equipment, machinery, parts, components, etc. to be removed:		
None		
E. Number of personnel required to perform work or inspection:		
F. Identification of Person submitting request (name, title, phone, fax, email, etc.):		
R. Jos Stoulcy, Projed MonogN, 817 938 1261		
Permission for Work Authorization and Entry is approved based on information submitted above, subject to the following conditions: SEE FORM F-12 ENTRY REQUIREMENTS FOR DRIESS COO		
Signature: No l'Il unioch	Date: 4/-8-05	

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date:

4-11-05

A Work Authorization Request (Form F-1) must be submitted and approved prior to entry into any Radiation Control Areas aboard the N/S SAVANNAH. Control Areas are defined as any space, compartment, or area designated as a Radiation Area due to the presence of radioactivity, radiation sources, residual radioactivity, or radioactive contamination in the space or on equipment, in systems, etc. These areas are posted with the appropriate radiation caution signs. Entry into Control Areas should be made with the minimum number of persons required to perform the work or inspection. Time required to perform work or inspections should be as short as possible to prevent unnecessary radiation exposure to personnel.		
A. Compartment or space to be entered:	B. Date and time entered:	
HOT CITIEM WITH - NEXT TO CONTROL	4-11-05 11:10 AX)	
Room DARCK PORTSIDE		
C. Protective Clothing Shall be worn as follows:		
1. Anti-C Suits (coveralls)	irators	
	rators	
D. Personnel Dosimeters Shall be worn by each worker:	YES NO	
E, Record of Personnel Exposure Shall be maintained : (Maintain Personnel Exposure	YES NO e Record on form C-1)	
F. Record of Numbered Security Seals:		
Number on seal removed: Removed	By:	
Number on seal installed: Installed B	y:	
G. Other Information: FRISIC U port EXIT, HANNE & FRET. RESIMATORY PROTECTION.		
,	(A)	
PENSOMMER SIGNOM: Sams H. Lardel	SON CLIANAMI CLANAMI	
rams to fairle hi	41-111-09	
	No Rizy - 100 DOSINA	
	11-111-05 ARITA FOR NO RIEGINATION POSITIONS ENTRI EXTRI	
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4-25-05 f	ROJACTA ONIJI COMIA, MOS	
	ROJACTE OMP LOTTE, RUP CLOSAP. Polity unot	
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U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-11-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

To: RADIATION SAFETY OFFICER	From:	
	R. JON Stouky	
	·	
A. Compartment or space to be entered: HOT CHEM LAB - NEXT TO CONTROL ROOM	B. Date(s) to be entered:	
B. Reason for entry (type work or inspection to be performed, etc): [MS] FECTION OF ARAB, SMIZAR SURVEY, FRISH SURVEY, DOSA PATA SURVEY		
D. Material, equipment, machinery, parts, components, etc. to be removed:		
Nom		
E. Number of personnel required to perform work or inspection:		
F. Identification of Person submitting request (name, title, phone, fax, email, etc.):		
R. Jon Stouly, Project Monoson, Eur 938 126/		
Permission for Work Authorization and Entry is approved based on information submitted above, subject to the following conditions: RESPIRATORY PROTIECTION		
Signature: Roll ?? Cermon	Date: 4-11-65	

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date: 4-5-65

A Work Authorization Request (Form F-1) must be submitted and approved prior to entry into any Radiation Control Areas aboard the N/S SAVANNAH. Control Areas are defined as any space, compartment, or area designated as a Radiation Area due to the presence of radioactivity, radiation sources, residual radioactivity, or radioactive contamination in the space or on equipment, in systems, etc. These areas are posted with the appropriate radiation caution signs. Entry into Control Areas should be made with the minimum number of persons required to perform the work or inspection. Time required to perform work or inspections should be as short as possible to prevent unnecessary radiation exposure to personnel.		
A. Compartment or space to be entered: COLD CHEM LAB CDECK, PONT B. Date and time entered: 4-5-05 10:35 AM 4-7-05 1:10 PM		
C. Protective Clothing Shall be worn as follows: 1. Anti-C Suits (coveralls)		
D. Personnel Dosimeters Shall be worn by each worker: YES NO		
E, Record of Personnel Exposure Shall be maintained: YES NO (Maintain Personnel Exposure Record on form C-1)		
F. Record of Numbered Security Seals: Number on seal removed: 7700 Removed By:		
G. Other Information: SHOPE COURS 4 GLOURS FRISK Upon ExiT NTSOP		
PERSONNEL SIGN ON: POLY MINNEY STORY STOR		
4-25-05 PROJECT Complete, RWP CLOSED Role The Jermell		

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-5-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

To: RADIATION SAFETY OFFICER	From: R. John Stouky	
A. Compartment or space to be entered: COLD CHEM LNB C DECK, PORT	B. Date(s) to be entered:	
B. Reason for entry (type work or inspection to be performed, etc): 145) PECTION, FRISH SURVEY, SMEAN SURVEY, AND DOGA TRATA SURVEY		
D. Material, equipment, machinery, parts, components, etc. to be removed: Nome		
E. Number of personnel required to perform work or inspecti	on: 3	
F. Identification of Person submitting request (name, title, phone, fax, email, etc.): Project Manager (804) 938-1261/jstoury@asl.a.		
Permission for Work Authorization and Entry is approved based on information submitted above, subject to the following conditions: SHOR COURS GOOD FARXIT FRISK HAMISS 4 FRAT UPON EXIT		
Signature: (No WY innorh	Date: 4/-5-05	

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date: 4-15-05

INSTRUCTIONS AND REQUIRMENTS FOR ENTRY INTO RADIATION CONTROL AREAS AND COMPARTMENTS

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Radiation Control Areas aboard the N/S SAVANNAH. Compartment, or area designated as a Radiation Area due sources, residual radioactivity, or radioactive contamination These areas are posted with the appropriate radiation cau made with the minimum number of persons required to perform work or inspections should be as short as possible personnel.	to the presence of radioactivity, radiation on in the space or on equipment, in systems, etc. tion signs. Entry into Control Areas should be exform the work or inspection. Time required to
A. Compartment or space to be entered:	B. Date and time entered:
PRIMARY & SECOMDARY COMTRIMARY	4-15-05 TO CLOSIE
ALL LEVELS	
C. Protective Clothing Shall be worn as follows:	
1. Anti-C Suits (coveralls) 2. Shoe	Covers <u>N/A</u>
3. Gloves	rators <u>NA</u>
5. Hoods (head cover) 6	
D. Personnel Dosimeters Shall be worn by each worker:	YES NO
E, Record of Personnel Exposure Shall be maintained : (Maintain Personnel Exposure	
F. Record of Numbered Security Seals:	
Number on seal removed: MA Removed	Ву:
Number on seal installed: Installed B	y:
G. Other Information:	
AVOID PRADIATION ARA	115 & POSTAD CONTACTIONAL
AREA:	
PENSONARL SIGM ON:	J. Munice Start
Thw D. at the Eleco	ale Toland
But D. William Jay Je	MI (for the survey
him bet James & Lara	THE P

4-25-05 PRWALT COMPLETO RWP CLOSED Roll TEP mnoch

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-15-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

To: RADIATION SAFETY OFFICER	From: R. Jow Howley
A. Compartment or space to be entered: PAIMARY & SECONDARY COMTAIN MARKET ALL LEVIELS	B. Date(s) to be entered: 4-15-05 To CLOSE OF CONTHIN MENT
B. Reason for entry (type work or inspection to be performed COKE BORK SUMPLIME, IMSPECTION AM	l, etc): 101 Postu. 6
D. Material, equipment, machinery, parts, components, etc. to MATERIALS TAKEM INTO COMTAINMENT	
E. Number of personnel required to perform work or inspecti	on: 8
F. Identification of Person submitting request (name, title, photosometry pm (804) 938-1	
Permission for Work Authorization and Entry is approved base subject to the following conditions:	ed on information submitted above.
Signature: Roll Tunnock	Date: 4-15-05

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date: 4-4-05

REQUEST FOR WORK AUTHORIZATION
AND ENTRY INTO RADIATION CONTROL AREA

AND ENTRY INTO RADIATION	CONTROL AREA
To: RADIATION SAFETY OFFICER	From:
	John W. Bowen
A. Compartment or space to be entered: FAN Rom B DECK ACROSS FROM STRIM B-1	B. Date(s) to be entered: 4-4-05
STARBOARD SIDA	
B. Reason for entry (type work or inspection to be performed Inspection, Smeans Survey, D.R. Sunvey	I, etc): 7, Frisking.
D. Material, equipment, machinery, parts, components, etc. t	o be removed:
None	
E. Number of personnel required to perform work or inspecti	on: 2
F. Identification of Person submitting request (name, title, ph	one, fax, email, etc.):
John Bower, Proj. Engineer 804. 615, 1118 (Ph)	
804, 015, 1118 (F)	
john-bower @ wpi. brz	
Permission for Work Authorization and Entry is approved bas	ed on information submitted above.
subject to the following conditions: Grouns & SHOR CON	mas As DaTunason Entry
Permission for Work Authorization and Entry is approved bas subject to the following conditions: Growth & Short Con 145THUCTION AND PAGUIRA PAGUIRA (FORM F-)	
Signature Sal Mumorl	Date: 4-4-05
	//

4-15-05 RWP CLOSED Jumosh

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date:

4-4-65

INSTRUCTIONS AND REQUIRMENTS FOR ENTRY INTO RADIATION CONTROL AREAS AND COMPARTMENTS

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A. Compartment or space to be entered: FAN ROOM B DECK ACROSS FROM STAM B-1 STARBOARD SINE	B. Date and time entered: 4-5-65 8,50 AM
C. Protective Clothing Shall be worn as follows:	,
1. Anti-C Suits (coveralls)	Covers
	irators
5. Hoods (head cover) 6	<u></u> _
D. Personnel Dosimeters Shall be worn by each worker:	YES NO
E, Record of Personnel Exposure Shall be maintained : (Maintain Personnel Exposure	
F. Record of Numbered Security Seals:	
Number on seal removed: Removed	By:
Number on seal installed: Installed B	v :
G. Other Information: FRISK HANDS & FEBT	
PERSONNEL SIGN ON: ROLTE PENNSUL RES ELECTION ELECTION	guinan Fa ENTRY) 4/11/05

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date:

4.4-65

INSTRUCTIONS AND REQUIRMENTS FOR ENTRY INTO RADIATION CONTROL AREAS AND COMPARTMENTS

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A. Compartment or space to be entered:	B. Date and time entered:
HPLAB ADRICK AT HOSPITAL	4-6-05
C. Protective Clothing Shall be worn as follows:	
,	Covers
	rators
5. Hoods (head cover)	VES // NO
E, Record of Personnel Exposure Shall be maintained: (Maintain Personnel Exposure	
F. Record of Numbered Security Seals:	
Number on seal removed: Removed	By:
Number on seal installed: Installed B	y:
G. Other Information: FRISK upon ExITING -	HANDS & FRAT AT SOP
G. Other Information: FRISK upon ExITING - 4-7-05 LAD CLEARAN FA	EXTRY W114009 1/1/259
GOT a DOSIMATRY - COM	AMIMATAN GINIK ONLY
PERSONNEL SIGN ON	NOT OFFILE WILL HOLD
PERSONNA SILM ON DO)	Delfind
4-12-05 RWP CLOSAD-	Junes Egyddodl //is Belil 4115
4-12-05 RWP CLOSAD-	Room CLIEARED FEXCIPPU
Fa SINK Rolling	mah

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-4.05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

To: RADIATION SAFETY OFFICER	From:
	TI Bourse
	John Bowen
A. Compartment or space to be entered:	B. Date(s) to be entered:
HP LAB A DECK AT HOSPITAL	4-4-05
,,,,	
B. Reason for entry (type work or inspection to be performed	l, etc): Dosa home Sunum
INSTRUTION, FRISKING, SMEAN SURVEY, AND	, , , , , , , , , , , , , , , , , , ,
D. Motoriel conjument machinem newtones and a	- L
D. Material, equipment, machinery, parts, components, etc. to	o be removed:
None	
Typhe	
E. Number of personnel required to perform work or inspecti	on. 2
F. Identification of Person submitting request (name, title, ph	one, fax, email, etc.):
John Bower Proj. Engreer	
John Bower Proj. Engreer (Ph) 804. 781. 615. 1118	
(F) 804.789-1576	
John-bowen @ wpi.biz	
Permission for Work Authorization and Entry is approved base subject to the following conditions:	ed on information submitted above,
subject to the following conditions: AS PETAILED ON FORIN F-2	"IENTRY INSTRUCTION " TRYCIA AND
FORIN F-I	
Signature: Roll 44 P	Date: 4-4-65
Signature: Nati 1/47 immh	Date. 4-4-09

U.S. MARITIME ADMINISTRATION **N/S SAVANNAH**

Work Authorization Request

Date:

4-4-05

REQUEST FOR WORK AUTHORIZATION

AND ENTRY INTO RADIATION	CONTROL AREA
To: RADIATION SAFETY OFFICER	From: John W. Bowen
A. Compartment or space to be entered: PORT & STANBOARD STANBILITERE Room OFF OF 14 FLAT DECK	B. Date(s) to be entered:
B. Reason for entry (type work or inspection to be performed To FERFORM INSPECTION, SMIEHR SURVE OF COMPINET MENT	
D. Material, equipment, machinery, parts, components, etc. to	o be removed:
E. Number of personnel required to perform work or inspecti	on: 3
F. Identification of Person submitting request (name, title, ph John Bower John-hown Project Engineer 804.615.1118 (Ph.) 804.789.1576 (F)	one, fax, email, etc.): en @ upi. brz
Permission for Work Authorization and Entry is approved bas subject to the following conditions: AS LISTAIN ON REQUIREMENTS "FORM F-2.	ed on information submitted above, ELITRY INSTRUCTIONS 4
Signature: Kole VEF munnel	Date: 4-4-05
	PATIE ON CONTACT WITH PIPER P- NOT A RADIATION DREAM

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date:

4-4-05

Radiation Control Areas aboard the N/S SAVANNAH. (compartment, or area designated as a Radiation Area due sources, residual radioactivity, or radioactive contaminat. These areas are posted with the appropriate radiation cau made with the minimum number of persons required to perform work or inspections should be as short as possib personnel.	Control Areas are defined as any space, to the presence of radioactivity, radiation ion in the space or on equipment, in systems, etc. tion signs. Entry into Control Areas should be perform the work or inspection. Time required to
A. Compartment or space to be entered:	B. Date and time entered:
PORT 4 STURBOURD STUBLIZED	9:55 AM 12:15
Rm 14 FLAT DECK	9:55 AM / 12:15
C. Protective Clothing Shall be worn as follows:	/
1. Anti-C Suits (coveralls)	Covers
3. Gloves 4. Respi	rators
5. Hoods (head cover)	
D. Personnel Dosimeters Shall be worn by each worker:	YESNO
E, Record of Personnel Exposure Shall be maintained:	
(Maintain Personnel Exposure	Record on form C-1)
F. Record of Numbered Security Seals: Number on seal removed: 74.02 / 7604 Removed:	D
Number on seal removed: 7602/7604 Removed: Installed B	By:
msand b	
G. Other Information: SET UP STEP OFF PND & FRISKI EXIT OF ROOM, FRISK F. ED PEKSONNEL SIGN ON ROOMS FR 4 GLOVAS	EN TO PIENMIT CONTROLLED
EXIT OF Room, FRISK F. EN	T & HANDS UPON EXIT
PERSONNEL SIGN OM ROOMS FIR	15KAD & SMEARAD CLEAN. SHORE COLLIN NO LONGRA REGULARD 4-4-05 1:07PM
Janu H. Lordel Mw.	Parellone Stoll
Janue H. Lorle Md	Parellone LOW
4-5.85 Rooms CLIZIARISI	1 FG EXTRI WITHER
DOSIMIETING LIEURIS (12) LIEURI OF PINT STABILIA	KEGUIRMI) Fa Laun
LIEURL OF /JAN STABILIA	26N. (2/1)

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date: 4-6-65

A Work Authorization Request (Form F-1) must be submit Radiation Control Areas aboard the N/S SAVANNAH. Compartment, or area designated as a Radiation Area due sources, residual radioactivity, or radioactive contamination These areas are posted with the appropriate radiation caumade with the minimum number of persons required to perform work or inspections should be as short as possible personnel.	to the presence of radioactivity, radiation on in the space or on equipment, in systems, etc. tion signs. Entry into Control Areas should be exform the work or inspection. Time required to
A. Compartment or space to be entered: SECONDARY CONTAINMENT FROM HATCH ON B" DECK	B. Date and time entered: 4-6-65 10:05 AM 4-7-65 8:50 AM
5. Hoods (head cover) 6	rators Pen H.P.
D. Personnel Dosimeters Shall be worn by each worker: E, Record of Personnel Exposure Shall be maintained: (Maintain Personnel Exposure	YES NO
F. Record of Numbered Security Seals: Number on seal removed: 7838 Removed: Number on seal installed: Installed B	By: ROAT PENNOUR & PARMISSION FROM BOB SUNFR
G. Other Information: FAISK HANNS & FIRET UPON EXITING THEM PRESENT WHOLE BONY FRISK ONCE OUT 21-7-05 BASEN ON SINEPR & FRISK SURVEY SHOR COURA & CLOUR FOR Up, MA SECOMMAN ENTRY WITH HAMD & FORT FRISK UPON 13-17 WORK STILL REGULARS FULL DATESS WITH HAMP & FOOT FRISH OMLY FOR TEXT. FULL HAMP & FOOT FRISH OMLY FOR TEXT.	E Cidado Jan Comes Poup January James Poup
WITHOUT DRESSOUT - LOWER 15 COMTROURD BY DIFFERENT RWI	a LEURI HAS HIGH RAD ARRA MAID

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-6-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

To: RADIATION SAFETY OFFICER	From:
	R. Jon Stocky
	·
A. Compartment or space to be entered: SECONDARY CONTAIN MUNIT FROM HUTCH ON "B" DECK	B. Date(s) to be entered: 4/-6-05 4-7-05
B. Reason for entry (type work or inspection to be performed INSPECTION, FRISK SURVEY, SMEAR SUR PLUG REMOVAL AMA HATCHOPEMIME.	l, etc): URY, DOSERATE SURUM NO FENTRY
D. Material, equipment, machinery, parts, components, etc. to	o be removed:
E. Number of personnel required to perform work or inspecti	on: 5
F. Identification of Person submitting request (name, title, ph	
RJOSS Fryed Wounds	7 336316 0707
Permission for Work Authorization and Entry is approved bas subject to the following conditions: SEE REQUIRAMENTS NO ENTRY UNTIL AIR SAMPLE PS TRANSPORTS ARRECT	ed on information submitted above, ON FORM F-L-ENTRY INSTRUCTIONS FARDIN AIRBMAR
Signature: Roll Municipal	Date: 4-6-65

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

W-12-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

	CONTROL MALA
To: RADIATION SAFETY OFFICER	From:
	R. Jons Stocky
	'
A. Compartment or space to be entered:	B. Date(s) to be entered:
LOWER LEVEL OF SECOMPANY CONTRIBUNA	
B. Reason for entry (type work or inspection to be performed	l etc):
Conk Bonk Swap Las	i, cic).
D. Material, equipment, machinery, parts, components, etc. t	o be removed:
SAMPLR 3	
E. Number of personnel required to perform work or inspecti	ion: 4/
F. Identification of Person submitting request (name, title, ph	ione, fax, email, etc.):
Roy tow Houky, PM, 804-931-126,	
1 31-1267	
Permission for Work Authorization and Entry is approved bas	
subject to the following conditions: Dosimitary 18	EGUIRAD
MRIMITAN RAGUINAD.	
Signature: Rolf firmork	Date: 4/-12 -05

4-15-05 RWP CLOSIEP Rollskennoch

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date: 4-12.05

sources, residual radioactivity, or radioactive These areas are posted with the appropriate ra made with the minimum number of persons re perform work or inspections should be as sho personnel.	ANNAH. Control Areas are defined as any space, on Area due to the presence of radioactivity, radiation contamination in the space or on equipment, in systems, etc. adiation caution signs. Entry into Control Areas should be equired to perform the work or inspection. Time required to rt as possible to prevent unnecessary radiation exposure to
A. Compartment or space to be entered:	B. Date and time entered:
A. Compartment or space to be entered: LOWKN LIEURI 01= SECONDARY CO.	NTAINMA 4-13-05 9:00 AM
C. Protective Clothing Shall be worn as follow	ws:
1. Anti-C Suits (coveralls)	2. Shoe Covers
3. Gloves	4. Respirators
5. Hoods (head cover)	6
D. Personnel Dosimeters Shall be worn by each	ch worker: YES V NO
E, Record of Personnel Exposure Shall be ma	nintained: YES V NO
• • • • • • • • • • • • • • • • • • •	el Exposure Record on form C-1)
• • • • • • • • • • • • • • • • • • •	
(Maintain Personn	
(Maintain Personn F. Record of Numbered Security Seals: Number on seal removed: Number on seal installed:	Removed By: Installed By:
(Maintain Personn F. Record of Numbered Security Seals: Number on seal removed: Number on seal installed:	Removed By:

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Work Authorization Request

Date:

4-6-05

REQUEST FOR WORK AUTHORIZATION AND ENTRY INTO RADIATION CONTROL AREA

To: RADIATION SAFETY OFFICER	From:	
	R. Jouty	
	10,0000000	
A. Compartment or space to be entered:	B. Date(s) to be entered:	
PRIMARY CONTAIN MENT FROM SECONDARY CONTAINMANT		
SECONDARY CONTAINMENT		
B. Reason for entry (type work or inspection to be performed, etc): [NISPIECTION, FRISK SURVEY (IF MOUR), DOSK RATE SURVEY, SMEAN SURVEY AND WORK PLANNING.		
D. Material, equipment, machinery, parts, components, etc. to be removed:		
NONE EXCEPT WAS ISTUKAN IN.		
E. Number of personnel required to perform work or inspection:		
F. Identification of Person submitting request (name, title, phone, fax, email, etc.):		
1251 9EP 148, reparon tosjorg, polote crot. I		
·		
Permission for Work Authorization and Entry is approved based on information submitted above,		
subject to the following conditions: No IENTH UMTIL AIR SAMPLE CHERRS CONTRIBUTION		
ON FORM F-2 - ENTRY INCTURED PROTECTION TREGULARD. SEE PREQUIREMENTS		
Subject to the following conditions: No ENTRY UNTIL AIR SAMPLE CHERRS CONTHIMMENT AS NOW PIBBORNE OR RESPIRATORY PROTECTION REGIRED. SEE REQUIREMENTS ON FORM F-2 - ENTRY INSTRUCTIONS, PRIMARY CONTAINMENT TO BE VENTILATED PRIOR TO AND WHILE DURING ENTRY		
Signature: Rolle much	Date: 4-6-65	

4-15-05 RWP CLOSUP - REPLACED
ROLLINGAL

U.S. MARITIME ADMINISTRATION N/S SAVANNAH

Entry Instructions and Requirements

Date: 4-6-05

A Work Authorization Request (Form F-1) must be submitted and approved prior to entry into any Radiation Control Areas aboard the N/S SAVANNAH. Control Areas are defined as any space, compartment, or area designated as a Radiation Area due to the presence of radioactivity, radiation sources, residual radioactivity, or radioactive contamination in the space or on equipment, in systems, etc. These areas are posted with the appropriate radiation caution signs. Entry into Control Areas should be made with the minimum number of persons required to perform the work or inspection. Time required to perform work or inspections should be as short as possible to prevent unnecessary radiation exposure to personnel.		
A. Compartment or space to be entered: PRIMARY CONTAINMENT FROM SECONDARY CONTAINMENT	B. Date and time entered: 4-11-05 CONTINUAL	
C. Protective Clothing Shall be worn as follows:		
1. Anti-C Suits (coveralls)		
5. Hoods (head cover)		
D. Personnel Dosimeters Shall be worn by each worker: YES NO		
E, Record of Personnel Exposure Shall be maintained: YES NO		
(Maintain Personnel Exposure Record on form C-1)		
F. Record of Numbered Security Seals:		
Number on seal removed: Removed By:		
Number on seal installed: Installed By	y:	
G. Other Information: PRIMAY CONTAINMENT TO BE VENTILATED PRIOR TO MAIN DURING ENTRY. DRESS REQUIREMENTS AS ABOUR. FRISK HAMIS & FERT AT EXIT TO PRIMAY CONTAINMENT, WHOLE BODY F-RISK BETER EXITING ARAA.		
PERSONNEL SICINON: The British Stand PRIMARY 157 LIEURI ONLY OPIEM TO ACCRESS WITH DOSING ONLY. ONLY.		
~ J~		