

# LACBWR Site Restoration Project Work Control Procedure Isolation and Control For Final Status Survey Procedure No. LC-FS-PR-010

#### Revision No. 2

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#### Summary of Changes Revision 1:

- 1.) Minor formatting changes that did not affect the technical content of this procedure.
- 2.) Request for additional information related to the License Termination Plan for the Zion Nuclear Power Station, Areas 1 and 2. (TAC Numbers L53045 and L53046)
- 3.) Specified surveillance interval and personnel requirements for entry into the Class 2 and Class 3 Stand Alone Facilities, which are completed with the FSS process.

#### Summary of Changes Revision 2:

1.) Specify additional turnover and control requirements if controls are compromised in response to condition report ES-LCR-CR-2017-0073.

#### 1. PURPOSE AND SCOPE

#### 1.1. Purpose

This procedure describes the turnover, isolation and control process for survey areas prior to performing Final Status Survey (FSS) at LCSRP. It also provides the administrative process to evaluate, approve, and document decommissioning or maintenance related activities in survey areas during and following FSS activities.

#### 1.2. Scope

Planned decommissioning actions must be completed and assessed for isolation and control measures before FSS activities can begin in a designated survey area. This procedure describes the protocols used to verify and document that a survey area is in suitable physical condition for FSS implementation, and proper isolation and control measures are in place to limit the potential for cross-contamination from other decommissioning activities, and to maintain the final configuration of the survey area.

This procedure applies to all personnel performing turnover and control activities in support of FSS.

#### 2. REFERENCES

- **2.1.** LC-FS-PR-002, "Final Status Survey Package Development"
- **2.2.** LC-QA-PN-001, "Quality Assurance Project Plan (QAPP) for Characterization and Final Status Survey"
- **2.3.** LC-FS-PR-003, "Radiological Assessments (RA) and Remedial Action Support Surveys (RASS)"
- **2.4.** LC-FS-PR-008, "Final Status Survey Data Assessment"

#### 3. GENERAL

#### 3.1. Responsibilities

- 3.1.1 RP/FSS Manager is responsible for:
  - 1.) Providing technical oversight and administration of this procedure.
  - 2.) Assessing and approving any decommissioning or maintenance related activities in survey areas during and following FSS activities.
- 3.1.2 D&D Manager (or designee) is responsible for:

- 1.) Ensuring decommissioning or remediation activities in the survey area are completed.
- 2.) Ensuring housekeeping is performed, any tools or equipment not required to support FSS activities are removed, and any additional measures necessary to limit the spread of contamination from adjacent areas are implemented.

#### 3.1.3 FSS Supervisor – is responsible for:

- 1.) Determining the frequency and type of surveillances that will be performed in survey areas following the performance of FSS and prior to license termination.
- 2.) Maintaining cognizance of areas nearing decommissioning completion.
- 3.) Ensuring decommissioning or remediation activities in survey areas deemed ready for FSS are complete and initiating the turnover process.
- 4.) Assuring site safety concerns, issues and hazards are thoroughly addresses in the execution of this procedure.
- 5.) Verifying that survey areas to be surveyed for FSS are isolated, posted and controlled.
- 6.) Reviewing RA/RASS performed in support of survey area turnover.
- 7.) Ensuring access control measures are maintained for survey areas where FSS activities are active or have been completed.
- 8.) Notifying the RP/FSS Manager any time the physical configuration and/or radiological conditions change in a survey area where FSS activities are active or have been completed.
- 9.) Maintaining a log of personnel entering posted survey areas under FSS isolation and control.

#### 3.1.4 Graphics/GPS Specialist – is responsible for:

- 1.) Preparation of drawings and other graphics (as necessary) to be included with any RA/RASS performed for survey area turnover.
- 2.) Generation of surveillance drawings as directed by the FSS Supervisor

#### 3.1.5 FSS Technicians – are responsible for:

- 1.) Establishing isolation and control prior to and during FSS activities.
- 3.1.6 All Project Personnel are responsible for:
  - 1.) Reading and complying with FSS postings.

#### 3.2. Definitions

- 3.2.1 **Access Control** Application of programs and/or policies to ensure that survey areas are not cross-contaminated by personnel (or decommissioning activities) which may require access to survey areas under FSS isolation and control.
- 3.2.2 **Final Status Survey (FSS)** Measurements and sampling to describe the radiological conditions of a site, following completion of decontamination activities (if any) in preparation for release.
- 3.2.3 **Isolation and Control (I&C)** The physical and the administrative means and methods by which a survey area is identified, bounded, posted and communicated to project personnel after turnover is completed.
- 3.2.4 **Surveillance** Activities (which can include field inspections, self-assessments, radiological surveys, documentation reviews and survey area inspections) to verify that isolation and control (I&C) plus access control successfully protect the physical and radiological condition for survey areas where FSS has been performed.
- 3.2.5 **Turnover** Acknowledgement of all cognizant project personnel that a system, structure, or open land survey area meets all the physical and radiological conditions necessary for the FSS Group to perform FSS.
- 3.2.6 **Walkdown** The inspection of a survey area which assesses and confirms the readiness of that survey area for turnover.

#### 3.3. Acronyms

**ALARA** As Low As Reasonably Achievable

**<u>DCGL</u>** Derived Concentration Guideline Level

**FSS** Final Status Survey

**I&C** Isolation and Control

**LCSRP** LaCrosse Site Restoration Project

**QAPP** Quality Assurance Project Plan

**RA** Radiological Assessment

**RASS** Remedial Action Support Survey

**RCA** Radiologically Controlled Areas

#### 3.4. Precautions, Limitations, and Prerequisites

#### 3.4.1 Precautions

- 1.) When a survey area is designated for turnover to support FSS, no radioactive material may be introduced, or decommissioning activities allowed in that survey area, without FSS Supervision assessment and RP/FSS Management approval.
- 2.) Postings and signs used to denote radiologically controlled areas shall not be used to denote FSS survey areas. An example of a posting used to denote a FSS survey area is provided in Attachment 3.
- 3.) The RP/FSS Manager must be notified if the physical configuration and/or radiological conditions in a survey area change where FSS activities are active or have been completed, regardless if the change was due to remediation or for other reasons.

#### 3.4.2 Limitations

- 1.) Area I&C and access control shall be maintained for each survey area until there is no risk of cross-contamination from decommissioning activities or, the area is backfilled (such as a basement), or the survey area's I&C is superseded by consolidation into a larger group of survey areas (e.g., expanding posted barriers, etc.).
- 2.) All attachments described in this procedure may be generated electronically. If electronic attachments are used, the physical layout of the attachment may be modified provided the intent in this procedure is not changed.
- 3.) FSS I&C boundary controls and postings shall be removed from FSS survey areas just prior to backfill. The backfilled survey area has a very low risk of cross-contamination for future FSS evaluation.

#### 3.4.3 Prerequisites

- 1.) Characterization, historical surveys or RA/RASS results should provide evidence that residual radioactivity is unlikely to exceed the unrestricted release criterion.
- 2.) Decommissioning activities having the potential to crosscontaminate the survey area must be completed prior to the initiation of this procedure.
- 3.) Tools and equipment not required to perform FSS must be removed from the survey area prior to turnover (exception to this prerequisite may be provided by the RP/FSS Manager in some situations (e.g., miscellaneous tools and equipment in a survey area that is shared with G-3 personnel who need access to the area and their tools and equipment).
- 4.) Housekeeping and cleanup of the survey area must be completed prior to the initiation of turnover activities.
- 5.) Posting materials used for posting of survey area(s) should be easily recognizable as pertaining to FSS. Examples of these materials are green and white protective coverings such as tarps, herculite, plastic, labels, ropes and signs.

#### 3.5. Records

- 3.5.1 Attachment 1, Area Turnover and Control Checklist
- 3.5.2 Attachment 2, FSS Area Access Request, Authorization and Sign-In Sheet
- 3.5.3 Attachment 3, FSS Area Posting Example
- 3.5.4 Attachment 4, FSS I&C Surveillance Summary
- 3.5.5 Attachment 5. FSS I&C Surveillance Matrix

#### 4. PROCEDURE

#### 4.1. Initiate Area Turnover and Walkdown

#### **NOTE**

Upon completion of commodity removal, decontamination and/or demolition activities in a designated FSS "survey area," the FSS Group shall be notified that the decommissioning activities in the survey area(s) are complete and the area is ready for FSS. This communication may occur formally, (e.g., by schedule, memorandum or through project controls) or informally (e.g., by verbal communication).

- 4.1.1 <u>When</u> a survey area is deemed ready for FSS, <u>then</u> the FSS Supervisor will initiate Attachment 1, "Area Turnover and Control Checklist" for the survey area and document the following information:
  - Survey Area Number
  - FSS Classification
  - Description
  - Survey Area Type
  - Survey Area in m<sup>2</sup>
  - Initiation date
- 4.1.2 The FSS Supervisor will indicate in the appropriate space which member of the D&D group notified the supervisor that the survey area is ready for walkdown and turnover.
- 4.1.3 The FSS Supervisor will schedule and coordinate a walkdown of the survey area to include all cognizant personnel (e.g., FSS Supervision, D&D Manager [or designee], etc.) and denote the scheduled date, time and attendees for the walkdown on Attachment 1 in the appropriate space.

Decommissioning and remediation activities are complete when all commodities and wastes have been removed from a survey area and/or survey area and all remaining materials have been decontaminated to levels less than the unrestricted release criteria or applicable action level.

- 4.1.4 During the walkdown the attendees will assess the readiness of the survey area for turnover, paying attention to the following items as delineated in Attachment 1 in the "Walkdown for Completion of Decommissioning and/or Remediation Activities" section:
  - 1.) All decommissioning activities in the survey area are complete, including removal, as necessary, of items (e.g., sub-surface systems, electrical components, etc.) that could interfere with FSS.
  - 2.) All surfaces to be surveyed are prepared for FSS as necessary (e.g., interferences removed, paint removed, penetrations exposed, excavations backfilled, etc.).
  - 3.) Any and all additional measures necessary to limit the spread of contamination from adjacent areas undergoing decommissioning (e.g., plug vent louvers, cover floor grating, etc.) have been implemented.
  - 4.) All tools or equipment not needed for FSS are removed.
  - 5.) Housekeeping has occurred and is satisfactory for FSS.

- 6.) All support apparatus (e.g., ladders, scaffold, etc.) and equipment used for FSS activities does not pose the potential for introducing or spreading plant-related radioactivity in the survey area.
- 7.) All transit paths for the area are eliminated or rerouted where practical except to support FSS.
- 4.1.5 <u>If</u> unsatisfactory conditions are identified, <u>then</u> number and document those conditions in the "Items for Resolition" spaces of Attachment 1. Additional pages may be used as necessary in accordance with section 4.2.2.
  - 1.) As items for resolution are corrected, the FSS Supervisor will indicate acceptance of the resolution by checking off, dating and initialing the appropriate spaces in the "Items for Resolution" section of Attachment 1.
- 4.1.6 <u>Indicate</u> the presense of any "Observed or Potential Hazards" by checking the appropriate boxes on Attachment 1.
- 4.1.7 <u>Document</u> under "Hazards Mitigation Measures" any measures that have been taken or will be taken to mitigate the observed or potential hazards. <u>Include</u> the namesof persons responsible for mitigating observed or potential hazards.
- 4.1.8 <u>Indicate</u> the presense of any "Conditions or Physical Constraints That May Affect Survey Performance" by checking the appropriate boxes on Attachment 1.
- 4.1.9 <u>Document</u> under "Resolution" any corrective actions for Steps 5.1.8 and include the names of persons responsible for those corrective actions.
- 4.1.10 <u>Indicate</u> necessary activities in the "Survey Area Preparation for Survey" by checking the appropriate boxes on Attachment 1.
- 4.1.11 <u>Document</u> under "Preparation Details" any necessary activities for Step 5.1.10 and include the names of persons responsible for those activities.
- 4.1.12 Upon satisfactory completion of all activities identified in Steps 5.1.4 through 5.1.11, the FSS Supervisor will obtain the D&D Manager (or designee) signature, and then the FSS Supervisor will countersign affirming the survey area is acceptable for performing FSS.
  - 1.) These signatures acknowledge turnover of the survey area from D&D to FSS and are entered on the appropriate spaces on Attachment 1.

4.1.13 The FSS Supervisor may direct and oversee the implementation of temporary work control postings, materials and/or barriers to maintain the physical and/or radiological integrity of the survey area during turnover surveys prior to formally establishing I&C.

#### 4.2. Area Turnover Survey and Posting for I&C

4.2.1 FSS Supervisor will review characterization or RA/RASS sample data for the survey area to determine if satisfactory data is available to perform FSS design.

#### **NOTE**

During the walkdown, the FSS Supervisor should emphasize and document any indications that would potentially impact the classification of Class 2 or Class 3 Survey Areas.

#### **NOTE**

The FSS Supervisor may waive the performance of a turnover survey only if the results from previous surveys (e.g., Characterization, RA, RASS, etc.) indicate a low probability that the survey area contains residual contamination above the applicable action level or DCGL, and the survey area conforms to the variability criteria of LC-FS-PR-002, "Final Status Survey Package Development," and the survey area was not remediated prior to the performance of FSS.

- 4.2.2 The FSS Supervisor will indicate whether a turnover survey is required by checking the "Yes" or "No" box in the "Survey Area Turnover" section on Attachment 1.
  - 1.) The FSS Supervisor shall design a turnover RA/RASS in accordance with procedure LC-FS-PR-003, "Radiological Assessments (RA) and Remedial Action Support Surveys (RASS)" (Reference 2.3)
    - A. The same type of instrumentation and instrument sensitivity that will be used for FSS should be used to assess a survey area for turnover.
    - B. <u>If</u> the existing radiological survey data is adequate and sufficient for FSS design, <u>then</u> any survey performed for turnover should consist of judgemental scans only.

- C. If the existing radiological survey data is inadequate or in sufficient for FSS design, or if the variability in the existing data does not conform to the criteria of LC-FS-PR-003, "Radiological Assessments (RA) and Remedial Action Support Surveys (RASS)," or if the survey area was remediated prior to the performance of FSS, then the survey design from the RA/RASS will be sufficient to ensure that remediation in the survey area was sufficient to meet the unrestricted release criteria and adequate survey data variability is available to perform survey design for FSS.
- D. The FSS Supervisor will denote the RA/RASS sample plan number on Attachment 1.
- 4.2.3 The FSS Supervisor will sign the "Survey for Area Turnover" section of Attachment 1.
- 4.2.4 As directed, the FSS technician will perform a turnover survey for the survey area using the instruction provided in the RA/RASS sample plan.
- 4.2.5 After completion of the turnover survey, the FSS technician will sign the "Survey for Area Turnover" section of Attachment 1.
- 4.2.6 After review of the turnover survey data, the FSS Supervisor will sign the "Survey for Area Turnover" section of Attachment 1, attach the results of the turnover survey (including survey maps, field notes and data,) and notify of turnover survey completion.
- 4.2.7 The FSS Supervisor will review the turnover survey results.
  - 1.) <u>If</u> the survey area is acceptable for FSS, then the FSS Supervisor will denote approval by completing and signing the "Comments and Observations" section of Attachment 1 and notify that the survey area can be posted for FSS I&C.
    - A. If turnover survey data indicates the survey area will require reclassification, then the FSS Supervisor may accept the survey area for FSS with the RP/FSS Manager review and approval. All supporting documentation for this review and approval must be referenced in the "Comments and Observations" section of Attachment 1.

- 2.) <u>If</u> the survey area is not acceptable for FSS, <u>then</u> cease the turnover process and inform the D&D Manager (or designee) that the survey area requires additional remediation. <u>Document</u> the unacceptable conditions in the "Comments and Observations" section of Attachment 1 and <u>secure</u> Attachment 1 into the appropriate FSS folder. <u>Initiate</u> a new Attachment 1 after the survey area is remediated and this procedure is restarted for the survey area.
- 4.2.8 The FSS Supervisor will direct implementation of I&C for the survey area.

FSS survey areas should have I&C barriers and postings placed at all entrances. Postings should be highly visible to notify personnel of access restrictions and requirements.

- 1.) Post FSS survey areas using signs such as those illustrated in Attachment 3
- 4.2.9 The FSS Supervisor will document the controls implemented for the survey area in the "Posting and Controls" section of Attachment 1.
- 4.2.10 The FSS Supervisor will sign the completed "Postings and Controls" section of Attachment 1 and file the completed Attachment 1 in the appropriate FSS folder.

#### 4.3. Access Control

#### **NOTE**

Posting the survey area is the minimum physical requirements for I&C. Other controls include physical restrictions such as stanchions and barricades; use of personnel frisking stations, sticky pads, protective clothing to prevent the introduction of plant related radioactivity into the survey area; personnel training, briefing and site wide notices to disseminate information and provide instructions; or any combination of the above. These measures should be considered commensurate with the potential for introducing plant related radioactivity into the survey area.

- 4.3.1 Entry of personnel and/or equipment into survey areas under FSS I&C is allowed only under the restrictions of access control as delineated in this procedure.
  - 1.) Access control may be implemented through the use of specific notification to specified persons or groups, for specified operations or inspections, on a case by case basis, as approved by the RP/FSS Manager, e.g:

- A. Dairyland Power personnel who require access to the switchyard for routine operations are not required to notify the FSS group of switchyard entries for routine operations. The postings for the switchyard and other FSS controlled survey areas will reflect this exemption.
- 2.) These specific notifications will be documented and approved by the RP/FSS Manager, the approval documents (originals or copies) will be maintained by the FSS Group.
- 4.3.2 Any personnel entry or work activities shall receive authorization from the FSS Supervisor prior to entering any survey areas under FSS I&C.
- 4.3.3 The FSS Supervisor will review and approve all access requests to FSS I&C survey areas utilizing Attachment 2, "FSS Area Access Request, Authorization and Sign In Sheet."
  - 1.) Document the requesting work group's contact person, the activities to be performed, and the expected duration with start and stop dates on Attachment 2.
  - 2.) Assess and determine if there is any potential impact from the introduction of plant-related radioactivity into the survey area and which actions, if any, must be taken to prevent cross-contamination.
  - 3.) Summarize the conclusions of the assessments and document the controls required in the "Access Controls Required" section of Attachment 2.
    - A. <u>If access cannot be approved for the planned activities, then annotate "Denied" in the "Access Controls Required" section of Attachment 2.</u>
  - 4.) All personnel, tools and equipment shall be surveyed for the presence of residual radioactive material or radioactive contamination prior to entering survey areas under FSS I&C that are located within an RCA. The minimum survey requirements should be a hand and foot frisk.
    - A. Exceptions to this survey requirement are allowed under the specific notifications in Step 4.3.1.1.) of this procedure.

Most approvals are provided daily or on a case-by-case basis. A generic, one-time approval for access may be granted by the FSS Supervisor if the potential for introducing plant-related radioactivity is low. An example would be Security performing routine inspections. Because of the unique situation with the class 2 Cribhouses (LACBWR & G3), G3 personnel will be granted unconditional access. LACBWR decommissioning personnel will be required to pass the PCM monitor before entry as well as obtain FSS Supervisor approval.

- 4.3.4 All personnel entering and exiting survey areas under FSS I&C will annotate the Attachment 2 sign in and sign out sheet for every exit which is comtrolled by the work activities described on the Attachment 2, and persons may only enter and exit during the duration for which the work activities are approved.
  - 1.) Attachment 2 will be maintained in the appropriate FSS folder and will serve as a log for tracking all approved activities and access to the survey area.
- 4.3.5 If the physical configuration and/or radiological conditions in a survey area change where FSS activities are active or have been completed, regardless if the change was due to remediation or for other reasons, then the RP/FSS Manager shall be notified.
  - 1.) Provide a description of the area that was impacted (in terms of total surface area or percentage of survey area.
  - 2.) Provide the number and location of FSS samples or scan areas that were impacted.
  - 3.) The RP/FSS Manager shall request a special surveillance as described in section 4.4, or request a repeat of the FSS for a portion or all of the survey unit that was impacted using Attachment 9 of LC-FS-PR-008, "Final Status Survey Data Assessment" (Reference 2.4).

#### 4.4. Post FSS Routine & Special Surveillances

4.4.1 The FSS Supervisor will generate and maintain a list of survey areas that have completed FSS and require surveillance, and document entries on Attachment 5, "FSS I&C Surveillance Matrix."

#### **NOTE**

Surveillances are not required in FSS survey areas that have been backfilled or in piping (embedded or buried) that has been isolated or grouted in place.

FSS I&C can be formally established after all FSS data acquisition has been acquired in accordance with the FSS Sample Plan and the FSS Supervisor has determined the data acquisition and data DQO are complete and comply with the FSS Sample Plan.

#### NOTE

Routine surveillances will be performed in areas following FSS completion to monitor for indications of recontamination and verification of postings and access control measures. Validation for location integrity will include monthly surveillances for the class 2 cribhouses (LACBWR & G3) and quarterly surveillances for class 3 structures.

- 4.4.2 Routine surveillance will be performed in survey areas following formal establishment of FSS I&C to monitor for indications of crosscontamination and verification of postings and access control measures.
  - 1.) <u>Perform</u> routine surveillance of each FSS survey area on a semiannual basis.
  - 2.) Surveillance may be performed as directed by supervision at any time that a FSS survey area may be assessed to be radiologically impacted by work activities within or adjacent to the FSS survey area (e.g., transiting a radioactive material package though an FSS survey area, etc.).
- 4.4.3 Perform surveillance as follows:
  - 1.) <u>Review</u> the authorization and reasons for entry into the survey area since the performance of FSS or the last surveillance.
  - 2.) <u>Perform</u> a walk-down of the survey area checking:
    - A. That proper postings, barriers, system covers, system seals, etc. are in place and intact,
    - B. For evidence of disturbance, loss of isolation and control, or unauthorized introduction of or placement of radioactive materials, and signs, postings, labels and barriers are legible, accurate and obvious to the casual observer.

- 3.) <u>Document</u> the survey area, survey area type and classification, Reason for surveillance, surveillance activities, comments, observations and whether the results of the surveillance are satisfactory or unsatisfactory on Attachment 4, "FSS I&C Surveillance Summary."
- 4.) <u>If</u> the results from steps 1 and 2 are not satisfactory, <u>then</u> perform and document a judgmental scan of the survey area, focusing on access and egress points and any areas of disturbance or concern using the same type of instrumentation, scan speed, and alarm setpoints as used in the FSS survey.
- 5.) <u>Document</u> any surveys performed during the surveillance on a survey map of the survey area.
- 4.4.4 <u>Forward</u> the completed Attachment 4, "FSS I&C Surveillance Summary" with any supporting documents, surveys and maps to the FSS Supervisor for review and RP/FSS Manager for approval. Attachment 4, "FSS I&C Surveillance Summary" will be filed with the appropriate survey package.
- 4.4.5 <u>Update</u> Attachment 5, "FSS I&C Surveillance Matrix," annotating the completed surveillance date and enter the next schedule surveillance date.
- 4.4.6 <u>If</u> a routine surveillance indentifies physical observations or radiological measurements that require further investigation, <u>then</u> FSS may be repeated in the affected survey area at the discretion of the FSS Supervisor and RP/FSS Manager.
- 4.4.7 <u>If</u> FSS is repeated in a survey area, <u>then</u> generate a new survey plan in accordance with LC-FS-PR-002 "Final Status Survey Package Development."

#### 5. ATTACHMENTS

- **5.1.** Attachment 1, Area Turnover and Control Checklist
- **5.2.** Attachment 2, FSS Area Access Request, Authorization and Sign-In Sheet
- **5.3.** Attachment 3, FSS Area Posting Example
- **5.4.** Attachment 4, FSS I&C Surveillance Summary
- **5.5.** Attachment 5, FSS I&C Surveillance Matrix

## ATTACHMENT 1 AREA TURNOVER AND CONTROL CHECKLIST

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AREA TURNOVE	ZR:									
Survey Area No.: Survey Area No.:										
Description:										
Survey Area Type:	Open Land		Structure		System					
<b>Classification:</b>	Class 3	Clas	ss 2 🗌	Class 1						
Survey Area	1	$m^2$	Initiation Date	e:						
COMPLETION O	F DECOMMISSION	ING AND/OI	R REMEDIATIO	N ACTIVITIES	S:					
<b>Preparations for F</b>	SS: (Completed By D	ecommission	ing Group)	(checked box indic	ates an affirmative resp	onse)				
<ol> <li>All decommissing (e.g., sub-surface)</li> <li>All decommissing otherwise affect radioactive mate.</li> <li>All tools and ed.</li> <li>Housekeeping I.</li> <li>All transit path routed where presented in the control of the control of</li></ol>	ioning activities in the ce systems, electrical complete ioning activities in area to it are either complete erial to the area	area are components, et as either adjact or are deeme are FSS are remarkatory for personal areas are accept those and is acceptate.	ent to the survey and not to have any anoved	emoval, as neces fere with FSS rea to be isolated reasonable potentials	sary, of items d or that could ntial to spread minated or re-					
PRE-TURNOVER										
Walk-Down was:	Performed on:	Date:	By:							
	Not Performed -	Reason Wa	lk-Down was not I	(Print Name Performed:	/Signature)					
SURVEY FOR AR	REA TURNOVER:									
Survey Required for	r Area Turnover: N	o- Yes	s- RA/RASS	Sample Plan #:						
FSS Supervisor		Nint Name (Cinnet and Name)		ate:	-					
Survey performed b	y	rint Name/Signature	D	ate:	Time:					
- Copy of Surv			,	- Copy of Survey Map and data results attached						

## ATTACHMENT 1 AREA TURNOVER AND CONTROL CHECKLIST

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COMMENTS AND OBSERVATIONS:			
- Area Turnover Accepted			
	(Print Name/Signature) FSS Supervisor	(Date)	(Time)
POSTINGS AND CONTROLS:			
- Area Posted			
	(Print Name/Signature) /FSS Supervisor	(Date)	(Time)
Other Access Controls Implemented	(Cline Paline) Signature) / 255 Super riser	(Dute)	(111110)
1)			
2)			
3)			
4)			
5)			
Comments and Observations:			

## ATTACHMENT 1 AREA TURNOVER AND CONTROL CHECKLIST

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	rvey Area mber.:		Survey Unit Number.:		
Sur Typ	vey Area pe:	Open Land	Structure		System
Sur	vey Area Classifi	cation:			
Cla	ssification:	Class 3	Class 2	Class 1	
Sur	vey Area	$m^2$			
Des	scription:				
Phy	vsical Configurati	on:			
Pre	parations for FSS	S:		(checked box in	ndicates an affirmative response)
1)		ning activities in the area systems, electrical compo	1		
2)		e surveyed are prepared tions exposed, excavations			
3)	otherwise affect i	ning activities in areas eith t are either complete or ar ial to the area	re deemed not to have an	y reasonable po	otential to spread
4)	All tools and equi	ipment not needed for FSS	are removed		
5)	Housekeeping has	s occurred and is satisfactor	ory for performance for F	SS	
6)		pment (e.g., ladders or sc for introducing or spreadi			
7)	-	to or through the area, exectical		•	_

**Resolved Findings and Observations:** (items that would prevent an affirmative response above and how resolved)

#### **ATTACHMENT 1**

#### AREA TURNOVER AND CONTROL CHECKLIST

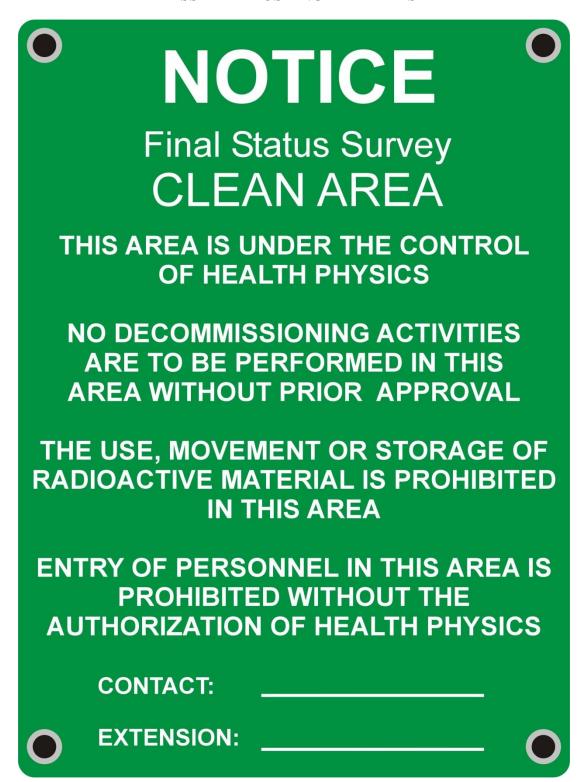
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- Heat stress or stroke	- Confined Spaces	- Kinetic energy sources (moving		
- Cold work environment	- Hazardous atmospheres	equipment)		
- Stinging insects	-Load bearing stresses	- Vehicle traffic		
- Hazardous plants and/or animal	- Lack of structural integrity (structure, floor)	· Overhead piping or components		
- Tripping hazards		- Exposed electrical circuitry		
- Standing water > 1ft deep	- Release of stored energy sources	- Sharp objects or surfaces		
- Fall hazards	(hydraulic, steam, etc.)	- Falling objects		
- Work @ height > 6ft	- Buried utilities	· Other		
- Open excavations	- Overhead power lines	- Other		
Each hazard identified must be evaluated to determ	mine if the hazard can be eliminated, avoided, or minimize	d, as well as the need for additional support/expertise)		
Hazard(s) Mitigation Measure	es:			
- Painted Surfaces	raints That May Affect Survey Perfor - Standing Water	· Oily Surface		
	_	•		
- Cracks/Crevices in Surface	- Constraining Vegetation	Remaining Equipment/Items		
- Inaccessible Surfaces	- Ledge or Rock Outcroppings	· Other		
Resolution:				
Survey Area Preparation for S	Survev:			
- Mark reference grid	- Set-up Man Lift	- Extension poles		
-GPS	- Confined space permit	· Other		
- Mark survey area boundaries	- Set-up Temporary Ventilation	· Other		
- Erect Scaffolding	- Radiation Work Permit	· Other		
Preparation Details:				
Submitted:	Reviewed:			

## ATTACHMENT 2 FSS AREA ACCESS REQUEST, AUTHORIZATION AND SIGN IN SHEET

Survey Area #	Name	SSN(Last four digits)	Reason for Entry	Date	Time In	Time Out

### ATTACHMENT 3 FSS AREA POSTING EXAMPLES



### ATTACHMENT 3 FSS POSTING EXAMPLE

# **NOTICE**

Final Status Survey

### CLEAN AREA

TO FOLLOW ACCESS REQUIREMENTS OF PROCEDURE LC-FS-PR-010

LACBWR DECOMISSIONING PERSONNEL ARE REQUIRED TO CONTACT FSS SUPERVISION PRIOR TO ENTRY

#### CONTACT\_INFORMATION.

Joe Jacobsen: Radio or Phone # 4259

Bob Reheard: Radio or Phone # 4202

Greg Peterschmidt: Radio or Phone # 4222

## ATTACHMENT 4 FSS I&C SURVEILLANCE SUMMARY

AREA TURNOVER:		
Survey Area Number.:	Survey Unit Number:	
Description:		
Survey Area Type:  Open Land	Structure	System
Classification: Class 3 C Reason for Surveillance:	class 2 Cla	ass 1
Semi-Annual Quarterly Monthly		Special
Surveillance Due Date:	Reason:	
SURVEILLANCE ACTIVITIES:	1	
1.) Review LC-FS-PR-010 Attachment 2, FSS Are Sheet for authorized entries into the FSS Survey Area.	-	<u> </u>
2.) Perform a walk down of the FSS Survey Area a survey areas that could have a reasonable potential to a Area	spread radioactive mater	ial to the FSS Survey
SURVEILLANCE COMMENTS AND OBSERVA	TIONS:	
Surveillance Satisfactory	Surveillance	Unsatisfactory
(Print Name/Signature) FSS Technician	Date:	Time:
(		
	Date:	Time:
(Print Name/Signature) FSS Supervisor		
	Date:	Time:
(Print Name/Signature) RP/FSS Manager		

### ATTACHMENT 5

#### FSS I & C SURVEILLANCE MATRIX

Survey	FSS I&C	1 <sup>st</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	2 <sup>nd</sup>
Area/Unit #	Established	Surveillance	Surveillance	Surveillance	Surveillance
	Date	Schedule	Performed	Schedule	Performed