

Lock Out/Tag Out (LOTO) User Manual

Version 1.0 4/23/2020



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What is the Kiewit LOTO App?

Lock Out, Tag Out (LOTO) is a safety measure used by industrial companies in physical locations to ensure the safety of personnel and the protection of equipment during maintenance or repair work. During a LOTO, potentially dangerous machines are powered down (*isolated*) and cannot be started up again while the work is ongoing.

Before work begins, a system of tags attached to locks is used to identify equipment being worked on and to prevent isolation from being removed while work is still being performed. Only the person who locked a machine out can remove the lock once work has finished.

LOTO creates a safe environment while working amongst hazardous equipment and is mandated by law in the United States and other countries.



The Kiewit LOTO app enhances, and in some instances replaces, the traditional paper system used to track equipment and collect signatures by incorporating technology into the manual processes. Using mobile devices, a Tagging Authority can safely perform the required Lock-Out/Tag Out procedures and obtain required signatures and information in real-time and in a more streamlined and effective way.

Personnel Involved in a LOTO

- Initial Requestor—makes a request for repair or maintenance work.
- LOTO Holder—safeguards all LOTO keys.
- LOTO System Admin—creates lists of <u>systems</u>, <u>equipment</u>, and all <u>locks</u> to be used in the LOTO process.



Steps in the LOTO Process

- 1. The <u>Initial Requestor</u> makes a request for repair or maintenance work.
- 2. The <u>Tagging Authority</u> determines the proper isolation necessary to safely perform the requested scope of work.
- The <u>LOTO System Admin</u> creates lists of <u>systems</u>, <u>equipment</u>, and <u>locks</u> to be used in the LOTO process.
- The Tagging Authority fills out the <u>Main Record Form</u> detailing system information, hazardous energy, and scope of work boundary isolation points. (The LOTO is In Progress.)
- 5. The Tagging Authority prints the <u>LOTO tags</u>, performs a walk-down, and tags and locks equipment.
- The Tagging Authority fills out the <u>Tagging Authority Verification section</u> of the Main Record Form and obtains a signature from the <u>LOTO Holder</u>. The Tagging Authority places the keys to all locks into the <u>Main Lock Box</u>. (The LOTO is Open.)
- 7. The maintenance/repair work is performed by workers who sign onto an open LOTO (in the <u>PersonnelSign-On</u> and/or <u>Satellite Sign-on</u> sections of the Main Record Form).
- 8. The Tagging Authority verifies that the work is complete and that all signatures, authorizations, and other pertinent details have been obtained (in the <u>Personnel</u> <u>Sign-off</u> and/or <u>Satellite Sign-off</u> sections of the Main Record Form).
- All locks and tags are physically removed, and the Tagging Authority <u>closes the</u> <u>LOTO</u>. (The LOTO is Closed.) In accordance with Kiewit's record retention policies, all relevant information is retained in a document repository database.

LOTO Statuses

A LOTO can have one of the following statuses:

In Progress—information pertaining to the LOTO is being gathered.

 \downarrow

Open—equipment has been isolated with tags and locks. Personnel are signed-on and currently performing work on equipment where energy has been isolated.

 \downarrow

Closed—work has been completed and all forms have been signed off.



Open the Kiewit LOTO App

To open the Kiewit LOTO app:

1. Navigate to the Kiewit Information Exchange (KIX) site. The KIX app opens, displaying a list of projects.

Kiewit	KIX
Select Project	
Blue Water Energy Cente	r
Calcasieu Pass	
Hill Top Energy Center	
Indeck Niles	
Jackson Generation	
Kiewit Internal	
Long Ridge Energy Gener	ration
Seminole	
Shady Hills	

2. Select a project from the list. The project opens in a new tab:

%Kiewit	KIX	Hickory Run	
Hickory Run			
> Startup			



3. Click Startup, then LOTO. The LOTO app opens:

Kiewit	KIX	Hicko
\vee LOTO Forms		
Main Record Forms		
Temporary Lift Forms		
Emergency Removal Fo	rm	
✓ Print Tags		
Danger Tag		
Caution Tag		
Start Up Boundary Tag		
Construction Boundary	Tag	
√ Admin		
Systems		
Equipment		
Main Lock Box		
Main Lock Box Lock		
Satellite Lock Box		
Satellite Lock Box Lock		
User Permissions		
✓ Training		
Training Sessions		
Trained Personnel		

- 4. Click an option in one of the following functional areas to begin working:
 - LOTO Forms
 - Print Tags
 - Admin
 - Training



Common Table Properties

Many of the Kiewit LOTO app pages display data in tables. These tables have common properties, which are described below.

Sort Columns

By default, search results are displayed in descending order of confidence.

However, you can reorder the display by clicking a column header. As you click, the display cycles through the following order:

- Ascending value of the column you click
- Descending value of the column you click
- Default value

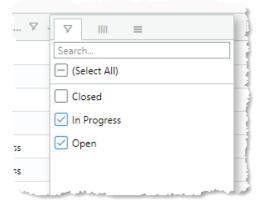
Column Options

Each column offers several sets of options that allow you to control the display of the table.

Click a column header, then click the menu icon that appears to its right:

LOTO Status 🖓	≡ Im	LOTO Number
Open	U	0067
Open		0068
 Open		0069

The column options drop-down appears:





Filter Table Values

Clicking the left-hand icon opens the Filter options:

7	
	Search
	- (Select All)
	Closed
	🗹 In Progress
35	🗹 Open
7S	
Sec	Lawrence and the second se

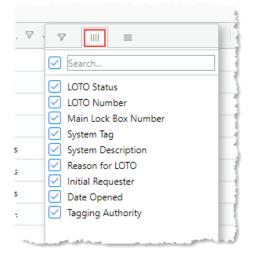
To filter out a value, uncheck the box to the left of its name. The unchecked item (or category and all items that belong to the category) are removed from the table display.

To add a value back, check the box to the left of its name. That item (or category and all items that belong to the category) are displayed in the table.

To search for a specific value, enter a search term in the Search field; results appear dynamically in a list as you type. You can then check/uncheck the item as above. Press Enter to display only the search results in the column.

Show/Hide Columns

Clicking the middle icon opens the Show/Hide Columns options:



To hide a column, uncheck the box to the left of its name.

To show (unhide) a column, check the box to the left of its name.

To search for a specific value, enter a search term in the Search field; results appear dynamically in a list as you type. You can then check/uncheck the item as above.



Column Display

Clicking the right-hand icon opens the Column Display options:

\$2	7 IIII ≡ Pin Column	>
	Autosize This Column Autosize All Columns	
	Reset Columns	
	0072	

Pin Column

Click this option to pin the current column to the left or right side of the screen; select **No Pin** to unpin the column.

Autosize This Column

Click this option to autosize the selected column to fit its contents.

Autosize All Columns

Click this option to autosize all columns to fit their contents.

Reset Columns

Click this option to reset column display to the default.

Right-Click Options

You can right-click cells and grab some options.

0004	5	
0006		
0007	Сору	Ctrl+C
0008	Copy with He	eaders
0009	📋 Paste	Ctrl+V
0010	🕁 Export	>
0013	3	
0018	2	

The following options are available:

- Copy—copies the cell's contents.
- **Copy with Headers**—copies the cell's contents with the column header.
- Paste—pastes the Clipboard's contents.
- Export—exports the table in the format you select.

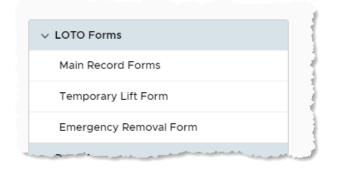


LOTO Forms

The LOTO Forms menu contains pages where you can create the forms required for a LOTO.

Note: These forms depend on information that needs to be entered in the <u>Admin</u> sections before a LOTO can be implemented.

When you open the Kiewit LOTO app, the LOTO Forms menu appears as follows:



The following forms are available:

- Main Record Form
- Temporary Lift Form
- Emergency Removal Form



Main Record Forms

The Main Record Forms page displays a list of all Main Record forms. (Each LOTO requires a separate Main Record form.) The Main Record form collects information and signatures required for a LOTO.

Note: The default view of this table filters out closed LOTOs. To view closed LOTOs, display the column <u>filter</u> options in the LOTO Status column and check **Closed**.

Display the Main Record Forms List

To display the Main Record Forms list:

- 1. Open the Kiewit LOTO app.
- 2. Click Main Record Forms under LOTO Forms. The Main Record Forms page opens:

			MAIN	RECORD FOR		
1 NEW LOTO						
E NEW LOTO						
LOTO Status 🖓	LOTO Number	Main Lock Box Number	System Tag	System Description Reason for LOTO	Initial Requester Date Opened	Tagging Authority
Open	0067	0123	CEM153-0116	CEM153-0116	Control Tartico	inco Terrigi
Open	0068	0100	CEM153-0101	CEMS 1 - HRSG - A	1000 Test	The second se
Open	0069	126	CEM153-0103	CEMS 3 - HRSG	Total Company	man Perge
Open	0070	1001	CEM153-0104	CEMS 4 - HRSG	Control Table	and forget
In Progress	0071	0123	CEM153-0103	CEMS 3 - HRSG	and Test	inco Progr
In Progress	0072	0100	CEM153-0104	CEMS 4 - HRSG	Total Tangata	Constanting of the local sectors of the local secto
In Progress	0073	0123	CHEM154-0101	CHEMICAL SYSTEM	and the	The State
In Progress	0075	169	CEM153-0101	CEMS 1 - HRSG - A	Total Tangana	Concession in the local sector of the local se
In Progress	0076	126	CEM153-0104	CEMS 4 - HRSG	and the	Sector Parts

Note: This table is display-only. The information in this table comes from the <u>Admin</u> <u>pages</u>.

- 3. Double-click any cell in the table to open the Main Record Form in that row.
 - You can make modifications to the record, then click **Save** to save the form.
 - To print the report, click Print.



Create a New Main Record Form

The Tagging Authority creates a new LOTO Main Record by completing all required fields on the Main Record Form, including identifying all required system information and hazardous energy sources.

To create a new Main Record Form:

- 1. Open the Kiewit LOTO app to the Main Record Forms page.
- 2. Click New LOTO. The LOTO Main Record Form page opens:

	LOTO MAIN	RECORD F	ORM	
Status	In Progress V	Loto Number	Unassigned	
Tagging Authority*	Select Tagging Authority $\qquad \qquad \lor$	Date Opened	03/23/2020	
Initial Requester*	Select Initial Requester	Main Lock Box Number*	Select Lock Box Number 🗸 🗸	
System Tag [*]	Select System 🗸	System Description		
Reason for Tagout [®]				
HAZARDOUS ENERGY ID	ENTIFICATION (CHECK ALL THAT APPLY)			
Chemical	Engine Driven	Pneumatic Stored Energy	Thermal Other	
Tag # Lock # Equi	pment Tag # Equipment Description Co	omponent Position Lock Location	Removed By Signature Box	
1	Please select the main lock box n	umber to add energy isolation details		
			0 to 0 of 0 1 < ≤ Page 0 of 0 > >1	
	SAVE	PRINT TAGS		

- 3. Enter all required information:
 - Status (display only)—displays the current status of the LOTO.
 - **Tagging Authority**—the person who is responsible for locking and tagging out a project and maintaining the LOTO equipment inventory.
 - Initial Requestor—the person who initiated the request for repair or maintenance work.
 - System Tag-tags attached to particular equipment to identify individual assets.
 - Reason for Tagout—enter the reason why the LOTO is required.
 - LOTO Number (display only)—displays the number of the LOTO associated with the Main Record form being created.
 - Date Opened (display only)—displays the date when the Main Record Form is created.
 - Main Lock Box Number—select the number of the main lock box used for the current LOTO.
 - System Description—enter a description of the system being locked out.



4. Click Add under Energy Isolation. The Energy Isolation form opens:

	ENERGY	ISOLATI	ON FORM	4	×
Tag #	1	Loc	ck #]
Equipment Tag #	Select Equipment		uipment scription]
Component Position	Select Component Position	∨ Loo	ck Location]
		SUBMIT			

- 5. Enter all required information, then click **Submit**. You return to the Main Record Form.
- 6. Click Save. When you are ready, proceed to printing tags, then activate the LOTO.

Note: You can print tags from the Main Record Form by clicking **Print Tags**. For information on each of the tag types, see Print Tags.

Activate a LOTO

To activate a LOTO:

- 1. Open the Kiewit LOTO app to the Main Record Forms page.
- 2. Double-click the LOTO you want to open.
- 3. Fill out the Tagging Authority Verification section and obtain a signature from the <u>LOTO Holder</u>.

○ Yes ○ N/A cured ○ Yes ○ N/A
~
>

Click Activate LOTO. The LOTO appears as Open in the Main Record Forms page.
 Note: You can now assign <u>personnel sign-ons</u> and <u>satellite sign-ons</u>.



Personnel Sign-On

To obtain personnel signatures to sign onto a LOTO:

- 1. Open the Kiewit LOTO app to the Main Record Forms page.
- 2. Double-click the LOTO you want to open and scroll to the Personnel Sign-On section:

RSONNEL SIGN-ON					
ADD SIGN-ON					
Lock #	Name	Sign-On	Sign-On Date	Sign-Off	Sign-Off Date
6	The Paul	🜲 Signed	03/17/2020	🌲 Signed	04/20/2020
0004	No. in case	💂 Signed	04/20/2020		

3. Click Add Sign-On. The Personnel Sign-On/Off dialog opens:

Verification Date				
Personnel S	ign-On/Off			
Sign-In				
Name *	Select Yourself		~	
Lock Number *	Lock Number			
Sign-On *		Sign-On Date		
				1 tc
SATI				CANCEL

- 4. Enter the required information, obtain a signature in the Sign-On box, then click **Save**. You return to the Main Record Form. The workers who have signed on may now perform work.
 - The <u>Temporary Lift</u> function also becomes available at this point.



Satellite Sign-On

To obtain satellite (third-party worker) signatures:

- 1. Open the Kiewit LOTO app to the Main Record Forms page.
- 2. Double-click the LOTO you want to open and scroll to the Satellite Sign-On section:

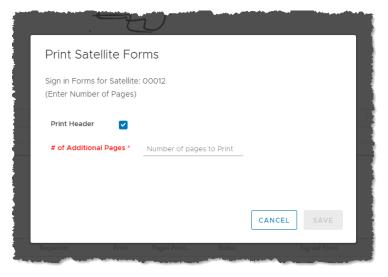
'⊨ ADD SIG	N-ON					
		-			-	
Form #	Lock #	Requester	Print	Pages Print	Status	Signed Form
00012	12	No. in pro-	•	0	Open	No Files Uploaded

3. Click Add Sign-On. The LOTO Satellite Record Form opens:

LOTO Status Open Loto Number O015 Satellite Status Open System Tag BFW11 Main Lock Box Number 5 ~ System Description Boller Feed Water Unit 1 Tagging Authority John Prochnow Authorized Requester* Select Authorized Requester Satellite Number Unassigned	
System Description Boller Feed Water Unit 1 Tagging Authority John Prochnow V	
Authorized Pequester* Salert Authorized Denuester V Satellite Number Illoastimed	
Reason for Tagout*	
IAZARDOUS ENERGY IDENTIFICATION (CHECK ALL THAT APPLY)	
Chemical Engine Driven Pneumatic Thermal 2 Electrical Y Hydraulic Stored Energy Other	
UTHORIZED REQUESTER (CHECK ALL THAT APPLY)	
UTHORIZED REQUESTER (CHECK ALL THAT APPLY) Drained and Vented Yes N/A Chemical Residue Removed Yes N/A Grounds Installed Yes N/A Temperature Verified Yes N/A Voltage Verified Yes N/A Energy Isolation Lock Keys Secured Yes N/A	



4. Click the **Print** icon in the row of the form you want to print. The Print Satellite Forms dialog opens:



- # of Additional Pages—allows you to add pages of blank lines for signatures.
- 5. Complete the form, then click **Save**. The form appears in a new tab with a print preview and print options:

	Print	2 s	heets of p
LOTO Number 0009 LOTO Status Open Satellite Number 00012			
System Tag ABCO.2 Main Lock Box Number 7	Destination	🖨 Canon iP110	
System Description DESCRIPTION SYSTEM 2	Destination	Canon P110	series wa
nobody wants to get hurt Reason for Tagout			
Heason for Lagour	Pages	All	
Tagging Authority Michael Richards Authorized Requester Wandaag Morgen			
HAZARDOUS ENERGY IDENTIFICATION (CHECK ALL THAT APPLY)	Copies	1	
Chemical Engine Driven Pneumatic Thermal Electrical Hydraulic Stored Energy Other UpPer case			
	Layout	Portrait	
Authorized Requester Verification Drained and Vented Over Over Chemical Residue Removed Over Over Grounds Installed Over Over			
Temperature Verified One OvA Voltage Verified One OvA Energy Isolation Lock Keys Secured One OvA	Color	Color	
Start Test Performed Over Over Over Over Over Over Over	Color	Color	
Energy Isolation Locks Tags Placed on Correct Components			
Authorized Requester User Lock number 12 Satellite Lock Box Number 23585	More settings		
Authorized Requester should be the first signature			
Lock # Print Name Sign-On Signature Sign-On Date Release Signature Release Date			

6. Select your desired print settings, then click **Print**. The form prints to your selected printer.



LOTO Sign-Off & Removal Procedure

After the maintenance or repair work that necessitated the LOTO is completed, the LOTO can be closed. The process for safely closing out a LOTO is:

- When work is complete, or at the end of a shift, all Authorized Persons sign off on the LOTO Satellite Record (in the <u>Personnel sign-off</u> or <u>Satellite sign-off</u> sections) and remove their user locks from the <u>Satellite Lock Box</u>.
- 2. The <u>Authorized Requestor</u> returns the completed LOTO Satellite Records to the LOTO office and removes their user lock from the Satellite Lock Box.
- 3. The Authorized Requestor signs off the <u>LOTO Main Record</u> and removes their user lock from the LOTO Main Lock Box.
- 4. The <u>Tagging Authority</u> updates the logs/database and archives all LOTO documentation.
- 5. The Tagging Authority completes the LOTO Main Record closeout section.
- 6. The Tagging Authority accesses the energy isolation lock keys and removes all energy isolation (i.e., <u>Danger</u>) locks and tags.
- 7. The Tagging Authority verifies that all personnel are signed off the LOTO and that all user locks are removed. The LOTO closeout process is complete.



Personnel Sign-Off

To obtain personnel (Kiewit employee) signatures to sign off a LOTO:

- 1. Open the Kiewit LOTO app to the Main Record Forms page.
- 2. Double-click the LOTO you want to open and scroll to the Personnel Sign-On section:

SONNEL SIGN-ON						
ADD SIGN-ON						
Lock #	Name	Sign	-On	Sign-On Date	Sign-Off	Sign-Off Date
6	No. No. of	*	Signed	03/17/2020	🌲 Signed	04/20/2020
0004	The straight straight	*	Signed	04/20/2020		

3. Double-click in the cell in the Sign-Off column next to the worker's name. The Personnel Sign-On/Off dialog opens:

			Juli Cha				
PER:	Personnel S	ign-On/Off					
	Sign-Off						
	Name			~			
	Lock Number	4444					
	Sign-On	Stand	Sign-On Date	04/21/2020			
			1				1 to 3.
<u>SAT</u>	Sign-Off		Sign-Off Date				
							atus
					CAN	CEL	Dpen
	00010		managan ang an		U		Dpen
A second	- to - I have a final sector	and the second se					

4. Obtain a signature in the Sign-Off box, then click **Save**. You return to the Main Record Form.



Satellite Sign-Off

When work is completed, satellite workers must sign the printed (paper) <u>satellite form</u>. The Tagging Authority should then scan or photograph the signed form and save it in PDF format.

To upload satellite signatures to sign off a LOTO:

- 1. Open the Kiewit LOTO app to the Main Record Forms page.
- 2. Double-click the LOTO you want to open and scroll to the Satellite Sign-On section:

'⊨ ADD SIGN	-ON					
2 400 0101						
Form #	Lock #	Requester	Print	Pages Print	Status	Signed Form
00012	12	Name and Address of the Address of t	•	0	Open	No Files Uploaded

3. Click the cell in the Signed Form column in the row of the form you want to sign off. The Upload Satellite Forms dialog opens:

		ĥ
	Upload Satellite Forms	
	Upload File for: 00012	
	Close Satellite	Ę
	Attachment(s) Choose File No file chosen	ł
, ,		
	SAVE	
	Requester Print Pages Print Status Signed Form	
-	Wrenda No.Physical and a second	1

- 4. Select a file in PDF format to open, then click **Save**. The document is saved to the Main Record Form.
 - Close Satellite—when work has been completed and all signatures have been uploaded, click this option to close out the satellite form.



Close out a LOTO

After everyone has signed out of the LOTO and the energy isolation tags have been removed, the Close button becomes available on the Main Record form.

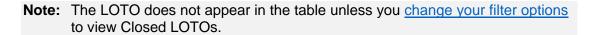
To close out a LOTO:

- 1. Open the Kiewit LOTO app to the Main Record Forms page.
- 2. Double-click the LOTO you want to close.
- 3. Obtain signatures from all workers:
 - Personnel sign off in the <u>Personnel Sign-On section</u>.
 - Satellite workers sign off on physical paper, which is then uploaded.
- 4. In the Energy Isolation section, double-click inside the Energy Isolation table. The Energy Isolation Form dialog opens:

Component Toy P Main Lock Box + 3 Description Component Position Removed By Signature Date Removed	
Component Position Component C	
Position Removed By Date Removed	
ed an: eratur Test P	ur 19 81

- 5. Select the name of the person who removed the tag, obtain their signature, then click **Submit**.
- 6. At the bottom of the page, click **Close**. A confirmation appears, and you return to the Main Record Form page.

Form #	Lock #	Requester	Print	Pages Printed	Status	Signed For
00009	12		•	3	Closed	1 file uploa
00010	56	Noning Yorgen	•	1	Closed	1 file uploa
00014	12	the step in our	•	0	Closed	1 file upload
00015	12	1011-700-00	•	0	Closed	1 file upload
						+





Temporary Lift Form

Before a LOTO is closed, a Startup Representative can temporarily remove Danger (i.e., energy isolation) locks from locked-out/tagged-out equipment in order to perform testing to expedite equipment commissioning. (This is called a Temporary Lift.)

The Temporary Lift Forms page displays all current Temporary Lift forms.

TEMDODADV LIET EODMO

Display the Temporary Lift Forms Page

To display the Temporary Lift Forms page:

- 1. Open the Kiewit LOTO app.
- 2. Click Temporary Lift Form under LOTO Forms. The Temporary Lift Forms page opens:

OTO Number	Main Lock Box Number	Lift Status	Requested By	Tagging Authority
0008	0001	Closed		
0009	0100	Closed		
8000	0001	Closed		
0014	169	Closed		
8000	0001	Closed		
8000	0001	Closed		
800	0001	Closed		
800	0001	Closed	Control Control	
062	0001	Closed		
0062	0001	Closed		
067	0123	Closed		

Note: This table is display-only of information entered in the Admin pages.

- 3. Double-click any cell in the table to open the report in that row.
 - You can modify some properties, then click **Submit**.



Create a New Temporary Lift

It is not possible to perform a temporary lift if any employee is signed onto a LOTO. (The process to remove a LOTO when a person is still signed on is the <u>Emergency LOTO Removal</u>.)

Important! A temporary lift **does not** supersede any LOTO precautions.

To create a new temporary lift:

- 1. Open the Kiewit LOTO app to the Main Record Forms page.
- 2. Open a LOTO Main Record and scroll to the bottom:

'⊨ ADD SIGN-0	2N					
Form #	Lock #	Requester	Print	Pages Printed	Status	Signed Form
00004	344	and here	•	5	Closed	1 file uploaded
					1 to	1of1 I< < Page 1 of 1 ⊃ ⊃I

3. Click Temporary Lift.

Note: All personnel and satellite forms must be signed out before creating a temporary lift.

The LOTO Temporary Lift Form opens:

LOTO Temporary Lift Form
System Tag CEMISS-0101 LOTO Number 0068 Main Lock Box Number 0100 System Description CEMS 1 - HRSG - A Temporary Lift Status Open
Reason for Temporary Lift of Tagout
Requested By Select Requester Date Approving Tagging Authority Select Tagging Authority Date
ADD TAG Tag # Lock # Equipment Tag # Equipment Description Restored Verified
Please select the main lock box number to add energy isolation details 0 to 0 of 0 (C < Page 0 of 0 > 2)
TEMPORARY LIFT REQUESTER RESTORATION VERIFICATION
System Restoration Operability Test Performed
All Energy Isolation Locks and Tags Restored
Requester Signature Date



4. Click Add Tag. The Energy Isolation Form opens:

in for T	emporary Lift of Tagou					
	ENERGY ISO	LATION FORM			×	
ested						
oving	Tag #	Select Loto Tag	\sim	Lock #		
<u>Y ISC</u>	Equipment Tag #		~	Equipment Description		
A D D Tag #	Restored By			Verified By		Ve
RAR	toration Operability T		SUE	BMIT		

5. Select the number of the tag that you want to lift, enter all other necessary information, then click **Submit**. The form closes and appears in the Temporary Lift Forms list.

End a Temporary Lift

You can end a temporary lift in the Main Record form (not on the Temporary Lift Forms page).

To end a temporary lift:

- 1. Open the Kiewit LOTO app to the Main Record Forms page.
- 2. Open a LOTO.
- 3. Enter information and signatures as needed in the Temporary Lift Requester Restoration Verification and Tagging Authority Verification sections, then click **Submit**.

Note: The requestor must be the first person to sign back on.



Emergency Removal Form

Emergency Removal is the process to remove a LOTO when it is confirmed that a worker who is signed in has left the project site.

Emergency Removal Procedure

When an Emergency Removal is required, the procedure is as follows:

- 1. Every effort is made to contact the individual who placed the user lock or user signature that needs to be removed in person or by phone.
- 2. Once the individual has been contacted, or else confirmed as not being onsite, the Tagging Authority prints and fills out the LOTO Emergency Removal Form.
- 3. The Tagging Authority, the individual's direct supervisor, and the startup manager or project manager sign the form.
- 4. The Tagging Authority removes the energy isolation (i.e., Danger) locks and tags.

Note: The individual who did not sign off must sign the form before returning to work to acknowledge that they are no longer signed into the LOTO.

Print an Emergency LOTO Removal Form

To print an Emergency LOTO Removal form:

- 1. Open the Kiewit LOTO app, then click **Emergency Removal Form** under LOTO Forms.
- 2. Click **Download**. The LOTO Emergency Removal file downloads.

R	Emerger	ncy Rem	ovpdf	^	
	0	Ш	•	T	8

- 3. Click the downloaded file. The LOTO Emergency Removal forms opens in a browser.
- 4. Print the form using your preferred print options.



Print Tags

Kiewit LOTO provides all the tags you need to tag out equipment.



When you open the Kiewit LOTO app, the Print Tags menu appears as follows:

i.	Ellie ger og rinn 10 rin.	à
	✓ Print Tags	1
	Danger Tags	
	Caution Tag	-
	Start Up Boundary Tag	ł
	Construction Boundary Tag	
-	and the second	1

The following tags are available:

- <u>Danger Tag</u> (also called "Energy Isolation Tag")
- <u>Caution Tag</u>
- Start Up Boundary Tag
- <u>Construction Boundary Tag</u>



Danger (Energy Isolation) Tags

Danger tags are used to protect personnel and/or equipment during a LOTO. Whenever possible, energy isolation locks are used in conjunction with Danger tags as an additional precaution. When a lock cannot be physically installed on a system component, a Danger tag alone is secured to the equipment.

Important! Equipment secured by a Danger tag may not be operated under any circumstances.

To print a Danger tag:

- 1. Open the Kiewit LOTO app.
- 2. Click **Danger Tag** under Print Tags. The Print Danger Tag page opens:

	NGER)
	OPERATE
LOTO#: * Select LOTO Number ~	Tag#: Select Tag Number ~
Lock#:	Date: 03/23/2020 📋
Equip	ment Tag #
Equipme	nt Description
Component Position:	
Tagging Authority:	
INITIAL AND	DATE BACK OF TAG



- 3. Select or enter tag information as required:
 - LOTO #--select the number of the current LOTO from the list.
 - Tag #—select the energy isolation tag number from the list.
 - Lock #—displays the number of the selected tag.
 - Date—click the Calendar icon, then select the date the tag is put in place.
 - Equipment Tag #—(auto-generated) displays the energy isolation tag number used for the piece of equipment being tagged out.
 - Equipment Description—(auto-generated) displays the description of the piece of equipment being tagged out.
 - **Component Position**—(auto-generated) displays the position (e.g. open/closed, etc.) of the equipment.
 - **Tagging Authority**—(auto-generated) displays the name of the Tagging Authority placing the LOTO.
- 4. Select a printer, then click **Print**.



Caution Tag

Caution tags provide specific instructions for the operation of system components where plant safety is not affected and personal injury is not a risk. The only personnel allowed to operate equipment while under a Caution tag are those named on the tag or designated by the Caution tag holder to do so.

To print a Caution tag:

- 1. Open the Kiewit LOTO app.
- 2. Click **Caution Tag** under Print Tags. The Print Caution Tag page opens:

Tag#: *	Date: 03/23/2020
	Equipment Tag #:*
Ec	uipment Description:*
S	Special Precaution(s):
esponsible Pers	on: [*] Select Responsible Person ✓

- 3. Select or enter tag information as required:
 - Tag #—enter the number of the desired tag.
 - Date—click the Calendar icon, then select the date the tag is installed.
 - Equipment Tag #—auto-generated display of the energy isolation tag number used for the piece of equipment being tagged out.
 - Equipment Description—auto-generated display of the description of the piece of equipment being tagged out.
 - **Special Precaution(s)**—enter any precautions that should be taken around the tagged out equipment.
 - **Responsible Person**—select the name of the person to contact about the LOTO from the drop-down.
- 4. Select a printer, then click **Print**.



Start Up Boundary Tag

Start Up Boundary tags are used to indicate a system or component is under Startup jurisdiction. Tags are hung immediately after the system is officially transferred from Construction to Startup, and locks are used to restrict access for custody reasons. (Startup Jurisdiction refers to any system or equipment that has been turned over to Startup but has not been turned over to the owner.)

Note: Start Up Boundary tags are **not** used for personnel safety or equipment protection.

To print a Start Up Boundary tag:

- 1. Open the Kiewit LOTO app.
- 2. Click **Start Up Boundary Tag** under Print Tags. The Print Start Up Boundary Tag page opens:



- 3. Select or enter tag information as required:
 - **Responsible Person**—select the name of the person who can be contacted about the LOTO from the drop-down.
 - Radio Channel—enter the radio channel on which the responsible person can be contacted.
- 4. Select a printer, then click **Print**.



Construction Boundary Tag

Construction Boundary tags are used by Construction to distinguish items in Construction Jurisdiction that are energized by temporary power prior to system turnover. These tags are placed on any item that poses a potential hazardous energy source while in Construction Jurisdiction.

To print a Construction Boundary tag:

- 1. Open the Kiewit LOTO app.
- 2. Click **Construction Boundary Tag** under Print Tags. The Print Construction Boundary Tag page opens:

	THIS EQUIPMENT IS UNDER CONSTRUCTION LOTO JURISDICTION	
CONTACT	T NAME *	
ENERGY	SOURCE *	
DATE	03/23/2020	

- 3. Select or enter tag information as required:
 - Contact Name—enter the name of the person who can be contacted about the LOTO.
 - Energy Source—enter the type/source of energy that falls under the jurisdiction of this piece of equipment.
 - Date—click the Calendar icon, then select the date the tag is installed.
- 4. Select a printer, then click **Print**.



Admin

The Admin menu contains pages where you enter all the information required by a Main Record Form.

When you open the Kiewit LOTO app, the Admin menu appears as follows:

. -	· · · · · · · · · · · · · · · · · · ·
	✓ Admin
	Systems
	Equipment
	Main Lock Box
	Main Lock Box Lock
	Satellite Lock Box
	Satellite Lock Box Lock
	User Permissions
-	And a set of the set o

The following Admin pages are available:

- Systems
- Equipment
- Main Lock Box
- Main Lock Box Lock
- Satellite Lock Box
- <u>Satellite Lock Box Lock</u>
- User Permissions



Systems

A system is a collection of pieces of equipment that are locked out together during a LOTO.

Display the System List Page

To display the System List page:

- 1. Open the Kiewit LOTO app.
- 2. Click **Systems** under Admin. The System List page opens:

NEW SY	STEM		
Delete	System Tag	Description ∇ \uparrow	
Ŵ	AQA0.1	Ammonia Storage & Transfer	
ŵ	ABR1.1	Aux Boiler	
ŵ	BFW1.1	Boiler Feed Water Unit 1	
Ū	BFW2.1	Boiler Feed Water Unit 2	
ŵ	CTG1.1	CTG Unit 1	
Ŵ	CTG1.4	CTG Unit 1 Water Wash & Drains	
Ŵ	CTG2.1	CTG Unit 2	
ŵ	CND1.1	Condensate	
	ABC0.1	DESCRIPTION SYSTEM 1	
	ABC0.2	DESCRIPTION SYSTEM 2	
	ABC0.3	DESCRIPTION SYSTEM 3	
ū	ABC0.4	DESCRIPTION SYSTEM 4	
Ū	SYS1.1001.1	Demo System 1	
ŵ	SYS1.1001.2	Demo System 2	
Ŵ	SYS1.1001.3	Demo System 3	
Ū	SYS1.1001.4	Demo System 4	
Ū	HRG1.1	HRSG Unit 1	
Ū	HRG2.1	HRSG Unit 2	
Ū	EMB0.1	MV SWGR 1	
ΠĪ	45	SDFSDF	

3. You can perform the following actions:

- Create a new system
- Double-click a cell in the table, then modify its contents. (Only available if there is no LOTO assigned to it.)
- Change a system tag name/description
- Delete a system



Create a New System

To create a new system:

- 1. Open the Kiewit LOTO app to the Systems page.
- 2. Click **New System**. The Save System dialog opens.

Save Syste	m		
Please enter a Ta	g name and description of the sys	stem	
System Tag *	Tag		
Description *	Description		
		CANCEL	SAVE
TAG			

3. Enter a System Tag name and a description, then click **Save**. The system appears in the main System list.



Change a System Name/Description

To change a name and/or description:

1. Double-click the system name in the table. The Change System dialog opens:

ELECTRICAL 103			
Change Sys	stem		
Editing Equipmen (Click the Line To			
System Tag	11		
Description	Hydraulic system		
		CANCEL	
 		and a statistical second second second	

2. Enter a new name and/or description, then click **Save**. The system appears in the main System list.

Delete a System

To delete a system:

- 1. Open the Kiewit LOTO app to the Systems page.
- 2. Click the **Trash Can** icon in the same row as the system you want to delete. A confirmation dialog opens.
 - **Note:** If there is an open LOTO associated with the system, then it is unavailable for editing or deletion (e.g., there is no **Trash Can** icon).
- 3. Click **Delete**. The system is deleted.



Equipment

Equipment denotes individual pieces of machinery to be locked down in a LOTO.

Display the Equipment List Page

To display the Equipment List page:

- 1. Open the Kiewit LOTO app.
- 2. Click **Equipment** under Admin. The Equipment List page opens:

NEW EG	UIPMENT							
Delete	Equipment Tag	Description	Туре	LOTO Number				
	123	TEST 1	SOMETHING	0004				
	2	EQUIPMENT TAG 2	SOME TYPE 2	0004				
	5	EQUIPMENT TAG 5	SOME TYPE 5	0009				
ŵ	3	EQUIPMENT TAG 3	SOME TYPE 3	UNASSIGNED				
ŵ	4	EQUIPMENT TAG 4	SOME TYPE 4	UNASSIGNED				
ŵ	6	EQUIPMENT TAG 6	SOME TYPE 6	UNASSIGNED				
	7	EQUIPMENT TAG 7	SOME TYPE 7	0006				
ŵ	10	EQUIPMENT TAG 10	SOME TYPE 10	UNASSIGNED				
ŵ	9	EQUIPMENT TAG 9	SOME TYPE 9	UNASSIGNED				
	11	EQUIPMENT TAG 11	SOME TYPE 11	0022				
	8	EQUIPMENT TAG 8	SOME TYPE 8	0007				
ŵ	EQ1.2001.1	DEMO EQUIPMENT 1	EQUIPMENT TYPE 1	UNASSIGNED				
ŵ	EQ1.2001.2	DEMO EQUIPMENT 2	EQUIPMENT TYPE 1	UNASSIGNED				
ŵ	EQ1.2001.3	DEMO EQUIPMENT 3	EQUIPMENT TYPE 2	UNASSIGNED				
Ŵ	EQ1.2001.5	DEMO EQUIPMENT 5	EQUIPMENT TYPE 2	UNASSIGNED				
ŵ	EQ1.2001.4	DEMO EQUIPMENT 4	EQUIPMENT TYPE 2	UNASSIGNED				

- 3. You can perform the following actions:
 - Create new Equipment
 - Double-click a cell in the table, then modify its contents. (Only available if there is no LOTO assigned to it.)
 - Change equipment properties.
 - Delete equipment.



Create New Equipment

To create new equipment:

- 1. Open the Kiewit LOTO app to the Equipment page.
- 2. Click **New Equipment**. The Save Equipment dialog opens:

Save Equip	ment	
Please enter a na	me and description of the Equipment	
Tag *	Tag	
Description *	Description	
Туре	Description	
	CANCEL	0

3. Enter a Tag name and a description (and optionally, a type), then click **Save**. The new equipment appears in the main Equipment list.



Change Equipment Properties

To change equipment properties:

- 1. Open the Kiewit LOTO app to the Equipment page.
- 2. Double-click the equipment name in the table.

Note: You can only change the properties of equipment that is available for editing or deletion (e.g., a **Trash Can** icon appears in the same row).

The Change Equipment dialog opens:

A ()	Jeschption		Туре	ECI	
	DESCRIPTION 3		SVSTEM	0067	
	Change Eq	uipment			
	Editing Equipmen	t 11			
	(Click the Line To	Edit the Field)			
	Tag	11			
	Description	VALVE			
	Туре	TYPE II			
				e 2	of
			CANCE	SAVE	

3. Enter a new tag name, description, and/or type, then click **Save**. The equipment appears in the main Equipment list.

Delete Equipment

To delete equipment:

- 1. Open the Kiewit LOTO app to the Equipment page.
- 2. Click the **Trash Can** icon in the same row as the equipment you want to delete. A confirmation dialog opens.

Note: If there is an open LOTO associated with the equipment, then it is unavailable for editing or deletion (e.g., there is no **Trash Can** icon).

3. Click **Delete**. The equipment is deleted.



Main Lock Box

This is the lock box located in the LOTO office where the Tagging Authority keeps all isolation keys. It is protected by an isolation control lock (Main Lock Box Lock) and tag to secure Danger (energy isolation) lock keys during a LOTO.





Display the Main Lock Box List

To display the Main Lock Box List:

- 1. Open the Kiewit LOTO app.
- 2. Click Main Lock Box under Admin. The Main Lock Box List appears:

NEW MA	AIN LOCK BOX	
Delete	Main Lock Box	LOTO Number
	1001	0070
Ū	0001	UNASSIGNED
	0100	0068
	0123	0067
ŵ	125	UNASSIGNED
	126	0069
ŵ	128	UNASSIGNED
ŵ	129	UNASSIGNED
Ū	127	UNASSIGNED
Ū	130-A	UNASSIGNED
	169	0075
Ū	1019	UNASSIGNED
Ū	1018	UNASSIGNED
Ū	1020	UNASSIGNED
ŵ	1022	UNASSIGNED
ŵ	1021	UNASSIGNED
ŵ	234	UNASSIGNED
ŵ	123456489	UNASSIGNED
	1001	0070
ŵ	89	UNASSIGNED
		E E

- 3. You can perform the following actions:
 - Create a new Main Lock Box
 - Double-click a cell in the table, then modify its contents. (Only available if there is no LOTO assigned to it.)
 - Change the Main Lock Box name.
 - Delete a Main Lock Box.



Create a New Main Lock Box

To create a new Main Lock Box:

- 1. Open the Kiewit LOTO app to the Main Lock Box List page.
- 2. Click New Main Lock Box. The Save Main Lock Box dialog opens.

Save Main Lo	ock Box		
Please enter a Lock	Box Name		
Main Lock Box *	Main Lock Box		
		CANCEL	SAVE
UNASSIGNED			_

3. Enter a name, then click **Save**. The new Main Lock Box appears in the Main Lock Box list.

Note: Each lock box name must be unique.



Change a Main Lock Box Name

To change a Main Lock Box name:

- **Note:** If a Main Lock Box list is unavailable for editing or deletion (e.g., there is no **Trash Can** icon), you can simply double-click the Main Lock Box name cell and enter a new name.
- 1. Open the Kiewit LOTO app to the Main Lock Box List page.
- 2. Double-click the lock box name in the table. The Change Main Lock Box dialog opens:

0070				
Change Mair	Lock Box			
Editing Main Lock B	ox 0001			
(Click the Line To E	dit the Field)			
Main Lock Box	0001			
		CANCEL	SAVE	
UNASSIGNED				

3. Enter a new name, then click **Save**. The modified lock box appears in the Main Lock Box list.

Delete a Main Lock Box

To delete a Main Lock Box:

- 1. Open the Kiewit LOTO app to the Main Lock Box List page.
- 2. Click the **Trash Can** icon in the same row as the box you want to delete. A confirmation dialog opens.

Note: If there is an open LOTO associated with the Main Lock Box, then it is unavailable for editing or deletion (e.g., there is no **Trash Can** icon).

3. Click **Delete**. The box is deleted.



Main Lock Box Lock

The Main Lock Box Lock is the lock that secures the Main Lock Box. The key to the Main Lock Box Lock is placed in a Master key cabinet located in the LOTO trailer accessible only by the Tagging Authority.



MAIN LOCK BOX LOCK LIST

Display the Main Lock Box Lock List

To display the Main Lock Box Lock List:

- 1. Open the Kiewit LOTO app.
- 2. Click Main Lock Box Lock under Admin. The Main Lock Box Lock List appears:

Lock Number	Main Lock Box	LOTO Number
12	5	0004
1	3	0006
12	7	0007
12	3	0008
89	7	0009
89	1234	0010
12	3	0013
321456898888888	2	0018
89	101	0019
44446	5	0021
44446	3	0022
677	219	0023
999999999	11111111111111111111111	0024

Note: This table is display-only. You cannot modify any of its contents or create a new Main Lock Box Lock. You create the link between the Lock number in the Energy Isolation form and the Main Lock Box Number in the MRF.



Satellite Lock Box

The Satellite Lock Box secures the Authorized Requestor's key to their user lock placed on the corresponding Main Lock Box. User locks and tags are placed on the Satellite Lock Box by each task performer to ensure the energy isolation lock keys are not removed while they are working on the equipment.

This lock box is intended to go to the field where the Authorized Requestor's crew is working.

Display the Satellite Lock Box List

To display the Satellite Lock Box List:

- 1. Open the Kiewit LOTO app.
- 2. Click Satellite Lock Box under Admin. The Satellite Lock Box List appears:

IEW SA	TELLITE LOCK BOX]
elete	Satellite Lock Box	LOTO Number
ŵ	234243	UNASSIGNED
ŵ	2	UNASSIGNED
ŵ	7	UNASSIGNED
Ŵ	3	UNASSIGNED
Ū	5	UNASSIGNED
Ū	6	UNASSIGNED
	8	0023
	10	0006
Ū	9	UNASSIGNED
	4	0006
Ū	11	UNASSIGNED
莭	S001	UNASSIGNED
	23585	0009
	677	0006

- 3. From the main page, you can:
 - Create a new Satellite Lock Box.
 - Double-click a cell in the table, then modify its contents. (Only available if there is no LOTO assigned to it.)
 - Change a Satellite Lock Box name.
 - Delete a Satellite Lock Box.



Create a New Satellite Lock Box

To create a new Satellite Lock Box:

- 1. Open the Kiewit LOTO app to the Satellite Lock Box List page.
- 2. Click New Satellite Lock Box. The Save Satellite Lock Box dialog opens:

	UNASSIGNED				
•	Save Satellite	Lock Box			
	Please enter a Lock E	Box Name			
	Satellite Lock Box *	Satellite Lock Box			
OTHE					
11111			CANCEL	SAVE	

3. Enter a name in the Satellite Lock Box field, then click **Save**. The new Satellite Lock Box appears in the main Satellite Lock Box list.



Change a Satellite Lock Box Name

To change a Satellite Lock Box name:

- 1. Open the Kiewit LOTO app to the Satellite Lock Box List page.
- 2. Double-click the Satellite Lock Box name in the table. The Change Satellite Lock Box dialog opens:

	Change Satellite Lock Box
	Editing Satellite Lock Box 1 (Click the Line To Edit the Field)
	Satellite Lock Box
OTHE	
	CANCEL

3. Enter a new name, then click **Save**. The modified box appears in the main Satellite Lock Box list.

Delete a Satellite Lock Box

To delete a Satellite Lock Box:

- 1. Open the Kiewit LOTO app to the Satellite Lock Box List page.
- 2. Click the **Trash Can** icon in the same row as the box you want to delete. A confirmation dialog opens.
- 3. Click **Delete**. The box is deleted.



Satellite Lock Box Lock

The Authorized Requester places their key inside the Satellite Lock Box, then places their User Lock on the Satellite Box and retains their key to prevent exposure to their Main Lock Box key that is in the Satellite Box. Workers also place locks on the Satellite Lock Box and retain their own keys.

Display the Satellite Lock Box Lock List

To display the Satellite Lock Box Lock List:

- 1. Open the Kiewit LOTO app.
- 2. Click **Satellite Lock Box Lock** under Admin. The Satellite Lock Box Lock List appears:

Satellite Form	Lock Number	Main Lock Box	LOTO Number
00012	12	7	0009
00013	12	3	0006
00016	12	3	0006
00017	12	3	0006
00018	12	219	0023

Note: This table is display-only. You cannot modify any of its contents or create a new Main Lock Box Lock. You create the link between the Lock number in the Energy Isolation form and the Main Lock Box Number in the MRF.



Training

All employees who are affected by a LOTO (Levels 1–4) must get LOTO training. All trained personnel (Levels 1–3) wear an identifier (e.g. hard hat sticker, hard hat, safety vest of a unique color, etc.) indicating they have received LOTO training.



When you open the Kiewit LOTO app, the Training menu appears as follows:



The following sections are available:

- <u>Training Sessions</u>
- Trained Personnel



Training Sessions

The Training Sessions page displays scheduled training sessions in a list.

Display the Training Sessions List

To display the Training Sessions list:

- 1. Open the Kiewit LOTO app.
- 2. Click Training Sessions under Training. The Training Sessions list appears:

⊨ NEW TRAINI	ING SESSION		
Session Date	Training	Tagging Authority	Completed
03-17-2020	Level 4 - Affected Person		
04-03-2020	Level 1 - Tagging Authority		
04-03-2020	Level 4 - Affected Person		
04-03-2020	Level 3 - Authorized Person		
04-08-2020	Level 2 - Authorized Requester		
4-08-2020	Level 4 - Affected Person	and he go	
04-09-2020	Level 3 - Authorized Person		
4-08-2020	Level 3 - Authorized Person	Number of Street	
4-09-2020	Level 3 - Authorized Person		
4-09-2020	Level 3 - Authorized Person	Tool and the second	
2-13-2020	Level 4 - Affected Person		ø
2-13-2020	Level 3 - Authorized Person		ø
2-13-2020	Level 2 - Authorized Requester		ø
2-14-2020	Level 4 - Affected Person	No. of Column	Ø
2-14-2020	Level 3 - Authorized Person		ø
2-17-2020	Level 1 - Tagging Authority	No. of Concession, Name of Street or other	ø
2-17-2020	Level 4 - Affected Person	Normal Terraria	Ø
2-25-2020	Level 3 - Authorized Person	No. of Column	Ø
2-25-2020	Level 2 - Authorized Requester		ø
02-25-2020	Level 2 - Authorized Requester		1

- 3. From the main window, you can:
 - Create a new training session.
 - Add participants to a training session.
 - Mark a training session as completed.



Create a New Training Session

To create a new training session:

- 1. Open the Kiewit LOTO app to the Training Sessions page.
- 2. Click **New Training Session**. The LOTO Training Sign-In page appears:

	LOTO TRAINING SIGN-IN						
Trainer*	Select Trainer V	 Training* 	Select Training	 ✓ Date 	04/15/2020		
Se NEW P	e Last Name	Disc	ipline	Phone Number	Radio Channel	Signature	Loc
4		PI	ease add the training pa	rticipants to display their inform	ation.		
						0 to 0 of 0 🛛 🤇 🔇 Page	0 of 0 > >
				TRAINING COMPLE	TED		

3. Select a trainer, training type, and date, then click **Create Session**. The new session appears in the Training Sessions list.

Add Participants to a Training Session

To add participants to a training session:

- 1. Open the Kiewit LOTO app to the Training Sessions page.
- 2. Double-click the training session. The LOTO Training Sign-In page opens:

iner	~	Training	Level 1 - Tagging Authority	Date 12/11/2		
NEW PARTICIPAN	Ţ					
First Name	Last Name	Discipline	Phone Number	Radio Channel	Signature	Lock #
lason	1000	Owner	3465435634	43	🜲 Signed	435345



3. Click Add Participant. The training session dialog opens:

Participant Select	ion *	Select Yourself		~	
Unique Email		Email			
Phone Number			Radio Channel	Radio channel (2 digits max)	
Discipline	Select Discipline	~	Signature		
Lock #	Enter assigned lo	ock number			

- 4. Select a name in the Participant Selection drop-down.
- 5. Obtain the participant's signature, then click **Submit**. The new session appears in the Training Sessions list.

Mark a Training Session as Completed

To mark a training session as Completed:

- 1. Open the Kiewit LOTO app to the Training Sessions page.
- 2. Double-click the training session in the list. The LOTO Training Sign-In page opens:

Mike	Newhouse	V Training Let	vel 1 - Tagging Authority	✓ Date 12/11/2	2019 🛗	
'≡ NEW PARTICIPA	ANT					
First Name	Last Name	Discipline	Phone Number	Radio Channel	Signature	Lock #
Jason	Horn	Owner	3465435634	43	🌲 Signed	435345
					1 to 1 o	f1 K ≤ Page1of1 > >K

3. Click Training Completed. The session is deleted.



Trained Personnel

All employees who work under a LOTO must be trained in LOTO procedures. The Kiewit LOTO app provides a list of personnel to allow management to keep track of employee training levels.

Levels of Trained Personnel

Kiewit LOTO contains different levels of training, depending on the authority and responsibilities of different employees.

Note: All trained personnel (Levels 1–3) wear an identifier (e.g. hard hat sticker, hard hat, safety vest of a unique color, etc.) indicating they have received LOTO training.

Tagging Authority (Level 1)

This role is responsible for locking and tagging out a project and maintaining the LOTO equipment inventory, LOTO program records, and drawings to track hazardous energy boundary status. This person reviews Work Authorization Requests to determine if sufficient information has been provided to determine proper isolation points if a LOTO is required.

This person, designated by the Project Manager, is the only person who has access to the LOTO system.

Note: All LOTO questions or issues should be directed to the Tagging Authority.

Authorized Requestor (Level 2)

This role Understands and executes the process to verify system isolation and properly sign onto a LOTO document.

Submits Work Authorization Requests for LOTO.

Assist designated Authorized Persons with LOTO procedure implementation.

Authorized Person (Level 3)

This role works on systems with potential presence of Hazardous Energy. (Includes: Craft personnel, Subcontractors, Vendors, and Client personnel.)

Apply their lock to a LOTO Satellite Lock Box and sign onto a LOTO Satellite Record after verifying isolation points.

Must understand the system they are to work on and the boundaries of that system.

Affected Person (Level 4)

Affected Persons are personnel who are NOT authorized to work under a LOTO, but should be aware of the procedure, which may affect their own work. Affected Persons should receive training by the safety staff or their designee during project orientation.



Display the Trained Personnel Page

To display the Trained Personnel page:

- 1. Open the Kiewit LOTO app.
- 2. Click Trained Personnel under Training. The Trained Personnel page appears:

First Name	Last Name	Unique Id	Discipline	Phone Number	Lock #	Radio Channel	Active 🗸	Training	PRNR
Michael	Read and a second s		Vendor	11110-014	34	00	s.	Level 1 - Tagging Authority	12345678
Wem	100.00	and it forest out	Insulation		12	12	V	Level 2 - Authorized Requester	46546546
Wandaag	The second se	ter Brand on	Electrical	81 T	2	12	✓	Level 2 - Authorized Requester	12333
Bob	the spectra	ten Brok on	Civil		9	3	1	Level 1 - Tagging Authority	99887
Kijkt	-		Boilermaker		2	99	¥	Level 3 - Authorized Person	111112
Jason	(mage)	per seguitere i con	Ironworker		12	11	¥	Level 1 - Tagging Authority	0440442
Corbin	Table 1		Cement Mason	-	12	sd	¥.	Level 3 - Authorized Person	022323
Nicole	1000	Name and Address of Ad	Subcontractor	10.000	453	98	1	Level 1 - Tagging Authority	00044156
Level	100	the second s	Electrical		67	87	¥	Level 3 - Authorized Person	55454545
John	Processon in concession of the second	property and provide and	Cement Mason	1.000	1	12	¥	Level 1 - Tagging Authority	
Ervin	Terrar II.		Vendor			2	¥.	Level 3 - Authorized Person	
John	1000	Test T. Brancott	DCS	100110-001		11	¥	Level 3 - Authorized Person	12349877
John		Terrar Britania and	Laborer	1.000		16	V	Level 2 - Authorized Requester	78723224

Note: By default, the Trained Personnel list automatically filters out inactive users. To show all users (including inactive users), <u>filter</u> the values in the Active column to include all values:

Active ⊽ ↓	
1	Search
Ø	(Select All)
	false
A.	🗹 true

- 3. From the main list, you can:
 - Edit personnel properties.
 - Activate/Deactivate a trainee.



Edit Personnel Properties

To Edit Personnel properties:

- 1. Open the Kiewit LOTO app to the Trained Personnel page.
- 2. Double-click a cell in the row that contains the employee whose properties you want to modify. The Edit [employee name] dialog opens:

me Last Name Uniqu	ie Id Discipline	Phone Number Lock #	Radio Channel 🛛 Active 🖓	Training
Edit: John				vel 1 - 1 vel 2 - A
Edit. John				vel 2 - A
First Name	John	Last Name		vel 1 - 7
Email (unique ld)	Active Directory Email or (Unique	Discipline	Millwright ~	vel 3 - A vel 2 - A
Lock #	15	PRNR	Personal Number	vel 2 - 4
Phone Number	801-555-1212	Radio Channel	23	vel 1 - 1 vel 1 - 1
Active		Training		vel 2 - /
		Level 4 - Affected Person -	12-13-2019	vel 2 - # vel 3 - #
		Level 3 - Authorized Perso	n - 03-03-2020	vel 3 - A
				vel 2 - 4
				vel 3 - /
				vel 2 - /
			CANCEL SAVE	vel 3 - 7
				vel 3 - /
dfsdfsdfds Duck daffy@	@test.com Electrical	9843967353 7657	78 💌	Level 3 - A

3. Make the required modifications, then click **Save**. The modified personnel record appears in the main Trained Personnel List.

Activate/Deactivate a Trainee

To activate/deactivate a trainee:

- 1. Open the Kiewit LOTO app to the Trained Personnel page.
- 2. Double-click a cell in the row that contains the employee whose properties you want to modify. The Edit [employee name] dialog opens.
- 3. Click the Active slider to activate/deactivate the employee:
 - Click left to **deactivate**. (The slider turns red.)
 - Click right to activate. (The slider turns green.)
- 4. Click Save. The modified personnel record appears in the main Trained Personnel List.