



BASIN ELECTRIC POWER COOPERATIVE LARAMIE RIVER STATION PROCEDURE

Origination Date: August 5, 2013	Procedure No.: SAF-EPB-027 (Previously SAF-EPB-23-002)	Revision No.: 01	Date Revised: 09/28/2016	Page 1 of 6
Affected Area(s): Plant Wide		Originated By: Eric Roesler		
		Revised By: Matthew Middlemas	Date: 09/28/2016	
Subject: BARRICADE TAPE PROCEDURE				

1.0 PURPOSE

- 1.1 The purpose of this procedure is to establish the requirements for using barricade tape and authorization of entry when barricade tape is used within Laramie River Station.
- 1.2 To warn and alert personnel as to what additional measures may be needed while working in or around hazardous areas.
- 1.3 To minimize the risk of injury or damage due to improperly guarded excavations, floor openings, overhead work, chemical spills or other hazards.

2.0 SCOPE / RESPONSIBILITY

- 2.1 This procedure defined the use of barricade tape and tags and will be followed by all employees and contractors at Laramie River Station.
- 2.2 This procedure is applicable to any hazardous condition which requires barricading to reduce the risk to workers' safety and health.
- 2.3 This procedure represents the minimum requirements which must be met or exceeded by anyone involved in barricading any hazardous area.

3.0 DEFINITIONS

- 3.1 Alerting yellow and black barricade tape: Areas equipped with alerting yellow and black barricade tape are to be treated in the same manner as yellow caution tape. Labeling the alerting yellow and black barricade tape is required if the tape remains up and the responsible party is not present. Workers coming upon alerting yellow and black barricade tape must determine what the hazards are by discussing the matter with the responsible party that erected the tape and ensure that proper precautions are in place to protect the worker before crossing the tape, or the worker may detour around the alerting yellow and black tape.
- 3.2 Barricade: is defined as an obstruction and means to inform personnel of a hazard to deter the passage of persons or vehicles from a hazard area.
- 3.3 Black and White Asbestos tape: is used by the PIMM Shop and/or asbestos abatement contractors to mark an area where an abatement is being performed



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or an identified condition exists that contains asbestos. Employees should avoid this area unless proper approval is given and the correct PPE is worn.

- 3.4 Red danger barricade tape: Red tape with black lettering DANGER DO NOT ENTER; is used to mark an area where a condition exists that is, or could imminently be an immediate danger to life or health. Employees shall detour around areas barricaded in red danger barricade tape.
- 3.5 Yellow caution barricade tape: Yellow tape with black lettering CAUTION; is used to mark an area where a condition exists that is hazardous. Employees should only proceed into this area after having identified the hazard and taken precautions to ensure that they are protected from the hazard.

4.0 PROCEDURE / GUIDELINES

4.1 Guidelines

- 4.1.1 Barricades will be required and constructed to isolate hazardous areas and whenever necessary to warn personnel of hazardous conditions. **Barricade tape is a warning device only and should not be considered for use as a guardrail.**
- When the potential of falling is present, temporary guardrails must be erected, sufficient to sustain 200 lbs. of force vertically and laterally. This temporary guardrail may be flagged with red danger barricade tape and labeled to identify the hazard.
- 4.1.2 Personnel installing red danger or yellow caution barricade tape will attach a tag with information regarding the reason for the tape, who installed it, and it will be attached to the tape at conspicuous locations on each separate run of tape to allow personnel to review the listed hazards.
- 4.1.3 Every effort to eliminate the hazard or install other control measures to minimize the hazard as soon as possible shall be completed to allow for the red danger barricade tape to be removed and noted in the shift supervisor's red danger tape log.
- 4.1.4 The log for red danger barricade tape will include the person that put it up, date installed, area it is located in, and reason for the barricade, the date it was taken down, and who removed it are noted upon removal. All personnel are allowed to put up red danger barricade tape with shift supervisor approval.



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- 4.1.5 Authorization for entry into an area barricaded with red danger barricade tape will come from the shift supervisor after reviewing the hazard with employee.
- When there is a conflict with another craft or work crew, arrangements will be made to coordinate the work – a scheduled job could be stopped or rescheduled if more urgent work needs to be performed in the area.
- 4.1.6 The shift supervisor will ensure the removal of the red danger barricade tape and log update when the hazard is eliminated or has been controlled.
- 4.1.7 Red danger barricade tape should not be used for general information on a temporary or minor hazard or when personnel would be posted at the area and/or working within the hazard area, yellow caution barricade tape should be used for those activities.
- 4.1.8 Red danger barricade tape is to be used where the hazard cannot be removed by shutting down equipment, installing additional hazard control equipment, and or installing structural barriers.
- 4.1.9 Red danger and yellow caution barricade tape cannot be used to surround the same area due to the conflicting purpose of installation. When red danger or yellow caution barricade tape is installed, it must completely surround the hazard area. There shall be no possibility of employees wandering into a barricaded area without proper warning.
- 4.1.10 All personnel are allowed to put up yellow caution barricade tape to identify a hazard or work activity. Yellow caution barricade tape is to be used to alert personnel of a temporary hazard and or work activity. The entry into this yellow caution barricade taped area shall only be done after the worker has read the affixed tag, understands the hazard present, and has sufficient controls to be protected from that hazard. The supervisor is responsible for their personnel that installed the tape and will ensure a timely removal is completed when the hazard is eliminated or sufficiently controlled and visual warning is no longer required.

4.2 Procedure

- 4.2.1 Select the color of barricade tape to match your needs.
- 4.2.2 Place the barricade tape to isolate the hazard from all sides accessible by people.



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- 4.2.3 Fill out a yellow "CAUTION – Barricade Tag" or a red "DANGER – Barricade Tag" as follows:
- Yellow CAUTION – Barricade Tag.
 - Complete the area, hazard(s), date and time installed, and who installed the tape on the yellow caution barricade tape tag.
 - After the tape is erected attach the tag to the tape on each possible point of entry (each run of tape).

CAUTION BARRICADE TAPE	Admittance Not Restricted
Area: _____	Date: ____/____/____ Time: _____ AM / PM
Hazard(s): _____	Tape Installed By: _____

- Red DANGER – Barricade Tape
 - Complete the area, hazard(s), date and time installed, anticipated tape removal date, name of the shift supervisor notified, the names of workers and who/department they work for can also be added, and who the controlling department, contractor, or person is that is responsible for work and hazards inside the barricade.
 - After the tape is erected, attach the tag to the tape on each possible point of entry (each run of tape).

DANGER BARRICADE TAPE	Restricted Admittance
Area: _____	The following personnel are authorized to enter the DANGER area
Hazard(s): _____	Area/Group Names
Tape installed by: _____	_____
Name of Operator Notified: _____	_____
Responsible Department/Area/Personnel: _____	Date: ____/____/____ Time: _____ AM / PM
	Anticipated tape removal date: ____/____/____

4.2.4 A tag must be affixed to each piece of barricade tape put up.



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- 4.2.5 **Do not close off walkways and traffic areas unnecessarily.**
- 4.2.6 Barricade tape can be moved temporarily to move in materials and equipment by the employee placing the tape.
- 4.2.7 **Log all red danger barricade tape placements with the shift supervisor in the Barricade Tape Log.** Logging includes where the tape is, the nature of the hazard, the date placed, and the employee placing the tape.
- 4.2.8 The shift supervisor will keep the log of all plant areas, and any employee or supervisor will contact him/her for information on any area enclosed with Red barricade tape.
- 4.2.9 **Remove all barricade tape when the job is finished and sign off the Barricade Tape Log.**
- Removed barricade tape shall be properly disposed of in the trash, including all remnants. The presence of pieces of barricade tape in a large facility is confusing to other workers and creates other hazards as work may be unduly interrupted while the remnant of tape is investigated.
- 4.2.10 **It must be understood that barricade tape does not constitute a physical barricade.** It is a warning only. A physical barricade is a structure (guardrail) capable of withstanding 200 lbs. of side pressure without moving. If a guardrail cannot be fabricated, than a guard must be posted to prevent accidental exposure to falls and other extreme hazards.
- 4.2.11 If multiple work groups need to be in a red danger barricade tape area, it must be coordinated in advance, and members of both work groups should sign onto the red DANGER – barricade tape label and in the Barricade Tape Log.
- 4.2.12 Barricade tape and/or physical barricades are required:
- When overhead work creates a hazardous condition below, all exposed walkways and/or aisle ways below will be taped off.
 - When there are openings in floors, roofs, or elevated platforms.
 - When tripping hazards are created by work in progress.
 - When excavations are started and remain open.
 - When conditions exist that may cause a hazardous substance to drain, spill, spray or leak on any personnel.
 - When electrical cabinet covers have been removed exposing live parts. Barricades or red danger barricade tape will be placed six



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feet beyond the minimum approach distance for the specific voltage encountered (NFPA 70EW, table 130.4(C)(a) or (b)).

- When using explosive activated fastening tools (Hilti guns).
- Where vehicle driving hazards are present. Tape must be accompanied by a physical barrier or road guard in a DOT type II traffic vest.
- When hoses and electrical cords are run across roadways, unless they are protected. Tape must be accompanied by a physical barrier or road guard in a DOT type II traffic vest.
- When cleaning vessels, pipes, or equipment creates hazardous conditions in the work area (e.g., hydro-blasting, chemical cleaning).
- When spray painting is being done.
- When personnel are exposed to the rotating superstructure of aerial lifts, cranes and excavating equipment (i.e. backhoe).

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