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1.0 PURPOSE

To provide guidelines to determine when a fall arrest system is required and how to safely use and inspect the equipment.

1.1 The most common fall protection systems located throughout the LRD are guardrails. The fall protection systems that are covered by this practice focus on the equipment that will be used when guardrails are not present.

2.0 SCOPE

- 2.1 This practice has been developed to provide guidelines for the implementation of fall protection systems when guardrails are not present or fail to provide adequate protection.
- 2.2 Any exceptions to this practice must be approved in writing by completing the HESS Standard Practice Variance Form
- 2.3 This standard is intended to comply with all applicable ANSI/ASSP and OSHA Standards.

3.0 STANDARDS

OSHA	29 CFR 1910.66 App C
	29 CFR 1926.104
	29 CFR 1926.106
	29 CFR 1926.500
	29 CFR 1926.501
	29 CFR 1926. 502
ANSI/ASSP	Z359

4.0 **DEFINITIONS**

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- 4.1 **Anchorage** means a secure point of attachment for lifelines, lanyards or deceleration devices.
- 4.2 **Authorized Person** means all MPC and Contractor personnel trained to use and inspect personal fall protection system equipment.
- 4.3 **Body Harness** means straps which may be secured about the employee in a manner that will distribute the fall arrest forces over at least the thighs, pelvis, waist, chest and shoulders with means for attaching it to other components of a personal fall arrest system.
- 4.4 **Buckle** means any device for holding the body harness closed around the employee's body.
- 4.5 **Continuous Fall Protection:** Maintain 100% tie-off at all times fall protection is required while maintaining proper fall clearances.
- 4.6 **Competent Person** means one who through proper training is capable of identifying hazardous or dangerous conditions in the personal fall protection system or any Printed: 4/28/2025

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component thereof, as well as their application and use with related equipment.

- 4.7 **Controlled Access Zone (CAZ)** means an area in which certain work may take place without the use of guardrails, personal fall arrest systems, or safety net systems and access to the zone is controlled. This practice is prohibited at the LRD.
- 4.8 **Deceleration Device** means any mechanism, such as a rope grab, rip-stitch lanyard, specially-woven lanyard, tearing or deforming lanyards, automatic self-retracting lifelines/lanyards, etc., which serves to dissipate a substantial amount of energy during a fall arrest, or otherwise limit the energy imposed on an employee during fall arrest.
- 4.9 **Free fall** means the act of falling before a personal fall arrest system begins to apply force to arrest the fall.
- 4.10 **Free fall distance** means the vertical displacement of the fall arrest attachment point on the employee's body harness between onset of the fall and just before the system begins to apply force to arrest the fall. This distance excludes deceleration distance, and lifeline/lanyard elongation, but includes any deceleration device slide distance or self-retracting lifeline/lanyard extension before they operate and fall arrest forces occur.
- 4.11 **Lanyard** means a flexible, wire rope, or polyester strap which has a connector at each end for connecting the body harness to a deceleration device, lifeline, or anchorage
- 4.12 **Leading Edge** means the unprotected edge of a floor, roof, or other walking/working surface; a work area in which the user's lifeline may come in contact with the edge in the event of a fall.
- 4.13 **Lifeline** means a component consisting of a flexible line for connection to an anchorage at one end to hang vertically (vertical lifeline), or for connection to anchorages at both ends to stretch horizontally (horizontal lifeline), and which serves as a means for connecting other components of a personal fall arrest system to the anchorage.
- 4.14 **Personal fall arrest system** means a system used to arrest an employee in a fall from a working level. It consists of an anchorage, connectors, a body harness and may include a lanyard, deceleration device, lifeline, or suitable combinations of these.
- 4.15 **Positioning device system** means a body harness system rigged to allow an employee to be supported on an elevated vertical surface, such as a wall, and work with both hands free while leaning. Positioning device system cannot have more than 2 feet of lanyard (free movement) between harness and anchorage.
- 4.16 **Qualified Person** means one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated his ability to solve or resolve problems relating to the subject matter, the work, or the project.
- 4.17 **Rope/Cable grab** means a deceleration device which travels on a lifeline and automatically, by friction, engages the lifeline and locks so as to arrest the fall of an

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employee. A rope grab usually employs the principle of inertial locking, cam/level locking, or both.

- 4.18 **Self-retracting lanyard (SRL)** means a deceleration device containing a drumwound line which can be slowly extracted from, or retracted onto, the drum under slight tension during normal employee movement, and which, after onset of a fall, automatically locks the drum and arrests the fall. Also referred to as a Yo-Yo.
- 4.19 **Warning Line System** means a barrier erected to warn employees that they are approaching an unprotected side or edge, and which designates an area in which work may take place without the use of guardrail or fall protection systems. This practice is prohibited at the LRD.

5.0 ELIMINATING AND CONTROLLING FALL HAZARDS

- **5.1** Fall Protection Hierarchy The LRD uses a hierarchy or preferred order of control to choose methods to eliminate or control fall hazards. The fall protection hierarchy is to be considered when designing fall protection solutions for both existing and new facilities. The methods listed below are in decreasing order of preference.
 - 5.1.1 **Elimination or Substitution –** removing the fall hazard (eliminating a fall hazard might include lowering the work surface to the ground. Substituting for a fall hazard might include changing a process, sequence or procedure such that employees do not approach the fall hazard).
 - 5.1.2 **Passive Fall Protection –** Isolating or separating the fall hazard from employees (Isolating the fall hazard might include installing a guardrail or covering a floor opening).
 - 5.1.3 **Fall Restraint –** A system designed to prevent an employee from reaching an unprotected edge or opening where the risk of a fall exists. (also known as travel restriction)
 - 5.1.4 **Fall Arrest –** A system designed to stop an employee after a fall has begun. (Full-body harness and lanyard)

6.0 BASIC PRACTICE

- 6.1 A personal fall arrest or protection system must be properly worn and secured by anyone working at elevations of six feet or more above grade that are not protected by a temporary or permanent perimeter guardrail or whenever the guardrail has been removed for access. Personnel shall remain tied off at all times (100% tie-off) where fall protection systems are required.
- **6.2** Fall protection equipment used on site by MPC and Contractors shall be selected by each company's Competent Person.
- **6.3** Only authorized personnel shall use personal fall protection equipment. These employees shall be properly trained for any type of system they may be expected to use.
- 6.4 Anchorage points used for the attachment of personal fall arrest equipment should 4 of 18 Printed: 4/28/2025

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be above the point of operation and secured to an adequate structural member.

- 6.5 Anchorage points utilized for fall arrest shall meet the following criteria:
 - 6.5.1 Structural members used should be capable of sustaining at least 5,000 pounds per employee attached,
 - 6.5.2 or shall be designed under the supervision of a qualified person as part of a complete personal fall arrest system which maintains a safety factor of at least two.

6.6 Anchorage points utilized for fall restraint shall meet the following criteria:

- 6.6.1 Structural members used should be capable of sustaining at least 3,000 pounds per employee attached,
- 6.6.2 Or shall be designed under the supervision of a qualified person as part of a complete fall restraint system which maintains a safety factor of at least two.
- **6.7** Anchorage points used in the event of a rescue shall be selected by trained personnel performing the rescue.
- **6.8** As a general rule, I-beams, H-beams, and large bore pipe are acceptable anchorage points. Anchoring to conduit, cable trays, guard rails, and insulated pipe is prohibited.
 - 6.8.1 Pipe support guideline:

MAXIMUM ALLOWABLE SPANS FOR PIPES USED AS FALL PROTECTION

<u>PIPES</u>

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- **6.9** Personal fall arrest systems shall be rigged to allow for minimum drop, so that the wearer can neither free fall more than 6 feet, nor contact a lower level in the event of a fall. When selecting an anchorage point, priority should be given to anchorage points located overhead.
 - 6.9.1 Equipment selection shall take into consideration the possibility of contacting a lower level in the event of a fall. Appropriate anchorage points and fall protection systems shall be used to eliminate the hazard.
 - 6.9.2 Self-Retracting Lanyards (SRL) are required when:

6.9.2.1 Employees and contractors are at risk of contacting a lower level in

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the event of a fall

6.9.2.2 There is less than 181/2 feet of clearance for a fall hazard.



*Chart provided by OSHA: https://www.osha.gov/dte/grant_materials/fy09/sh-19504-09/falls.pptx

- 6.9.2.3 For leading-edge (LE) work and foot-level tie-off, Self-Retracting Lanyards must be designated by the manufacturer for those applications.
 - 6.9.2.3.1 SRL's anchored below the user's dorsal D-ring must be approved by the manufacturer for such use. A fall while anchored below the dorsal D-ring with an unapproved SRL can result in failure of the equipment.
 - 6.9.2.3.2 SRL's utilized for leading edge work must be approved by the manufacturer for such use. A fall from a leading edge while using an unapproved SRL can result in failure of the equipment.
- **6.10** Fall protection system equipment must be thoroughly inspected before each use. Refer to section 6.30 of this practice for inspection guidelines
- **6.11** Fall protection equipment shall be removed from service under the following conditions:
 - 6.11.1 Evidence of defects, damage, or deterioration
 - 6.11.2 Equipment has been subjected to a fall
 - 6.11.3 Service life of the equipment has expired
 - 6.11.4 Manufacturer's label is not legible or missing

6.12 The service life of synthetic fiber fall protection equipment is 5 years unless

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otherwise specified by the manufacturer.

- **6.13** Unless otherwise specified in this practice, all fall protection components utilized shall be ANSI/ASSP Z359 compliant. All equipment utilized shall bear the manufacturer's label noting compliance.
- **6.14** When utilizing specialized fall protection systems (i.e. Vertical/Horizontal Lifeline, Engineered Solutions), the Safety Department shall be contacted prior to use for approval. A Fall Protection Pre-Plan Assessment (Appendix A) shall be completed prior to installation.
- **6.15** All work that will be performed on roof tops where fall protection is required shall be reviewed by the Safety Department prior to start.
- **6.16** When selecting equipment, physical hazards that may compromise equipment integrity shall be taken into consideration. Exposures to sharp edges, abrasive surfaces, and thermal, electrical, and chemical sources shall be considered in equipment selection. Steps shall be taken to minimize risk to equipment integrity. Protective measures or substitution for a more durable system shall be implemented where work conditions necessitate.
- **6.17** Fall protection system equipment must be properly worn and secured by anyone working on an elevating lift platform (man lift or scissor lift) or when in a personnel basket attached to a crane. Personnel must be secured to the lift by means of a self-retracting lanyard attached to the anchor point on the lift. Tying off outside of the platform is only permitted when it is necessary to exit the platform to access the work area when no other means of access are available. Prior to exiting the platform, personnel must secure their SRL to an anchorage point outside of the platform. For more information on personnel baskets, refer to the Critical Lift Practice in Section RSW-110-GV.
 - 6.17.1 If exiting an aerial lift is required, it should be noted on the JSA.
 - 6.17.2 When working outside the aerial lift, the lift must be parked and secured.
 - 6.17.3 The maximum allowable distance and angle from the anchor point to the D-ring shall be verified by the manufacturer's guidelines.
- **6.18** Before any decking, grating, flooring, railing or equipment is to be removed or opened that results in a fall hazard 6 feet or greater, the Deck and Railing Removal/Replacement Tracking Form is to be filled out, completed by the responsible parties and prominently displayed in the permit issue building. If grating is affected during this process (removed, replaced, etc.), the Tier 1 Grating and Platform Survey checklist must be completed. Form RSW-Form 02-GV can be found in the form section on the HESS standard practices webpage.
 - 6.18.1 The MPC employee supervising the work being performed (Maintenance Coordinator, Planner, Engineer, etc.) is responsible for initiating the Deck and Railing Removal/Replacement Tracking Form. This individual is considered the owner until missing components are replaced, the work is complete and the form is closed.
 - 6.18.2 The supervisor for the contract company performing the work is the individual responsible for completing the Tier 1 Grating and Platform Survey Checklist.
- 6.19 Where access to equipment on a structure requires personnel to be elevated over

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the protection of guardrails, a means of fall protection must be utilized to prevent the possibility of falling over the guardrail.

- **6.20** When ascending or descending rope and cable ladders where a fall hazard of 6 feet or greater exists, a fall protection harness and retractable lifeline shall be utilized. When a combination Retractable/Emergency Hoist Lifeline is utilized, the device shall be set in the retractable mode to make entry and egress.
- **6.21** All skylight floor openings and holes shall be guarded by a standard skylight screen or a fixed standard railing on all exposed sides.
- **6.22** MPC personnel can obtain fall protection system equipment from their operating area and Maintenance Zone Shops. Fall protection equipment is also available through the Safety Store. Contractors shall supply all fall protection system equipment for their employees unless otherwise specified in this practice.

NOTE: All Lanyards must be compatible to the body harness to which they are attached supported with documentation from each manufacturer.

- **6.23** While working around rotating equipment (e.g. machining of flanges during Turnaround), scaffolds need to be green tagged (e.g. complete guardrail/deck no personal fall arrest required). If the scaffold cannot be green tagged, the following need to be adhered to due to entanglement hazards:
 - 6.23.1 The servicing group must utilize a dedicated spotter on the ground to warn employees if they are approaching an edge.
 - 6.23.2 MPC Safety must field verify the condition of the scaffold on the working deck and provide approval.
 - 6.23.3 The mitigations must be documented on the Safe Work Permit and JSA.

NOTE: The waiving of fall protection only applies during the machining process. This includes while rotating and when stopped to obtain measurements. All other phases of work will still require fall protection with 100% tie-off (e.g. set-up of equipment).

6.24 Harnesses

- 6.24.1 Only full body harnesses shall be utilized for fall arrest. Fall arrest equipment should be attached to the rear D-ring centered between the shoulder blades The use of body belts is prohibited at the LRD.
- 6.24.2 Harnesses shall be securely fastened. Slack shall be eliminated to reduce the possibility of injury during a fall.
- 6.24.3 Every MPC owned fall protection harness utilized at LRD shall be equipped with suspension trauma straps, which will allow an employee to assume the standing position and relieve pressure on lower extremities in the event of a fall.

6.25 Fall Restraint Systems

1.1.1 Fall restraint systems shall be designed to prevent an employee from reaching an unprotected edge or opening where the risk of a fall exists.

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- 1.1.2 SRL's can be utilized as a restraint system if the overall length does not allow the employee utilizing the equipment to reach the unprotected edge or opening where the risk of a fall exists.
- 1.1.3 The connecting device of the SRL must be attached to the dorsal D-ring.
- 1.1.4 When utilizing a fall restraint system on a tank's roof or rooftop, it is only permissible if the tank has a low sloped roof. Low-slope roof means a roof having a slope less than or equal to 4 inches of vertical rise for every 12 inches horizontal length (4:12).

6.26 Shock Absorbing Lanyards

- 6.26.1 Lanyards shall meet ANSI/ASSP Z359 Standards.
- 6.26.2 Tying knots in lanyards is prohibited

6.27 Self-Retracting Lanyards (SRL / Yo-Yo)

- 6.27.1 Self-Retracting Lanyards shall meet ANSI/ASSP Z359 standards.
- 6.27.2 When utilizing a self-retracting lanyard, it shall be located as close to the work area as possible (not more than 30 degrees) to minimize the potential for swing fall.
- 6.27.3 Self-Retracting lanyards shall be attached according to manufacturer's guidelines. Attaching the SRL to a shock absorbing lanyard is prohibited.
- 6.27.4 Tying knots in lanyards is prohibited

6.28 Connectors

- 6.28.1 Snap-hooks and carabiners shall be self-closing and self-locking and require at least two consecutive deliberate actions to open. Snap-hooks shall be compatible with the member they are being connected to prevent unintentional disengagement of the snap-hook.
- 6.28.2 Snap-hooks shall be utilized according to the manufacturer's instructions. Unless specified as acceptable by the manufacturer, snap-hooks shall not be tied back to the lanyard. Snap-hooks shall not be connected to each other.
- 6.28.3 Storing snap-hooks by attaching to the harness straps is prohibited. Snaphooks shall be stored on a lanyard keeper or by attaching to the D-Ring. Lanyard keepers are available in the Safety Store.
- 6.28.4 Anchorage connectors (i.e. anchor pads, wire slings, etc.) shall be attached to no more than one personal fall arrest system.
- 6.28.5 Anchor pads are required where anchorage points may have rough or sharp edges that could damage the lanyard.

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6.29 Horizontal and Vertical Lifelines

- 6.29.1 When there are no suitable anchorage points (i.e. pipes or beams) above the work being done, lifelines shall be installed and used as the anchorage point.
- 6.29.2 The maximum distance between horizontal lifeline anchorage points cannot exceed 60 feet.
- 6.29.3 No more than 2 persons can be attached to a horizontal lifeline at the same time.
- 6.29.4 Horizontal Lifelines will be installed by trained competent personnel.
- 6.29.5 An LRD competent person (MPC or contractor competent persons) will be required to inspect all Horizontal Lifelines prior to and after installation. After installation, the lifelines will be tagged and signed by the company that performed the install.
 - 6.29.6 Adequate approved anchor points shall be utilized in the installation of Horizontal Lifelines. A Pre-Plan Assessment (Appendix A) shall be completed by the requesting company/department for all temporary Horizontal Lifeline installations and must be approved by a Competent Person.
 - 6.29.7 An LRD competent person (MPC or contract competent persons) will verbally review the anchor points with the installer prior to each Horizontal Lifeline installation. A Competent Person will be required to approve the anchorage points and sign the Fall Protection Pre-Plan Assessment before installation.
- 6.29.8 Only Lifelines that are designed by an engineer and comply with ANSI/ASSP requirements may be used.
- 6.29.9 An LRD competent person (MPC or contract competent persons) must inspect all installed lifelines prior to use each shift, sign and update the inspection tags.
- 6.29.10 Synthetic and non-stainless steel lanyards and lifelines must be stored indoors when not in use.
- 6.29.11 No knots shall be tied in lanyards, lifelines, or anchorage connectors.
- 6.29.12 Vertical Lifeline systems shall be designed by a fall arrest manufacturer and shall be installed and used under the supervision of a competent person.
- 6.29.13 Vertical lifelines shall be limited to one user per lifeline.
- 6.29.14 Vertical Lifelines must be protected against being cut or abraded. In areas where physical hazards may compromise synthetic lifelines, a cable lifeline should be utilized.

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6.29.15 Fall arrestors (i.e. rope/cable grabs) that are not bidirectional shall be marked to show correct orientation to ensure proper installation.

6.30 Inspection

- 6.30.1 Fall protection system equipment must be thoroughly inspected by the user before each use. Any person authorized to use and inspect fall protection system equipment must be properly trained for the use and inspection of that specific type of equipment.
- 6.30.2 All fall protection equipment utilized by LRD employees shall have a designated owner. The equipment shall either be owned by an individual employee or a Department Group (Tech Services, Safety, etc.)
- 6.30.3 The following items shall be inspected in addition to inspection requirements printed in the manufacturer's instructions:
 - 6.30.3.1 Absence or illegibility of markings;
 - 6.30.3.2 Absence of elements that affect equipment function;
 - 6.30.3.3 Evidence of defects in or damage to hardware elements including cracks, sharp edges, deformation, corrosion, chemical attack, excessive heating, alteration, and excessive wear;
 - 6.30.3.4 Evidence of defects in or damage to straps or ropes including fraying, splicing, unraveling, kinking, knotting, broken or pulled stitches, excessive elongation, chemical attack, excessive soiling, abrasion, alteration, excessive aging, and excessive wear. All rivets and stitching should be inspected to be sure they are secured.
- 6.30.4 In addition to the visual inspection, the brake mechanism on Self Retracting lanyards should be inspected to verify that it is operating correctly, by quickly pulling on the line to verify that the brake engages. Pull the entire lanyard from the housing to ensure that the lanyard is undamaged.
- 6.30.5 If there is any doubt whether the fall protection system equipment is safe to use, it should be returned to the MPC safety department. Equipment that does not pass inspection shall be immediately tagged as defective and turned into the MPC Safety Department.
- 6.30.6 All fall protection equipment shall undergo an annual comprehensive formal inspection by a competent person. The MPC safety department will coordinate and track annual inspections for MPC owned equipment.
- 6.30.7 An inspection tag will be fixed to all MPC fall protection equipment with the tracking number and date of next inspection. No MPC fall protection equipment is to be utilized without an up-to-date inspection tag.
- 6.30.8 For further guidance on fall protection equipment inspection, see Appendix B: Annual Inspection Criteria Checklist. Appendix B is intended to provide

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guidance when completing annual equipment inspection.

6.31 Storage

6.31.1 Equipment shall be stored in a manner that prevents damage from environmental factors such as heat, light, excessive moisture, oil, chemicals, and other degrading elements.

6.32 Training

- 6.32.1 Personnel utilizing fall protection equipment must be properly trained by a competent person on the selection, inspection, use, storage, and maintenance of the equipment before use.
- 6.32.2 Contractor personnel must be able to provide documentation of training upon request.

6.33 General Guidelines for Working Over or Near an Unprotected Body of Water

Note: This section applies to Mississippi River, Docks, Ponds, Cooling Tower Basins, Clarifiers, etc.

- 6.33.1 When working over or near water, outside of the fixed handrails, where a drowning hazard is present, individual(s) must have on a U.S Coast Guard approved Personal Flotation Device (PFD) unless otherwise stated in this practice.
- 6.33.2 Prior to use, PFDs shall be inspected for defects. Defective vests shall be removed from service.
- 6.33.3 When continuous fall protection is used, without exception, a PFD is not required.
- 6.33.4 When working outside of the fixed handrails above water, employees must utilize fall protection if the **distance from the walking/working** surface to the water's surface is 6 feet or greater.

Note: This is also applicable while performing work on scaffolding outside of the fixed handrails over water.

- 6.33.5 Protection systems shall be rigged in such a manner the employee cannot free fall more than 6 feet nor contact a lower level including the water.
- 6.33.6 While erecting, dismantling, or working from a hanging scaffold, all employees must tie-off to the fixed structure of the dock or un-insulated pipes which are 4 inches in diameter or greater. If it is impossible to tie-off to a fixed structure, or if the fall protection will allow the employee to hit the water, contact the LRD Safety Department for evaluation.
- 6.33.7 While erecting, dismantling, or working from a regular scaffold (bottom supported) outside of the fixed handrail, all employees must tie-off to either

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an approved tie off point on the scaffold or the fixed structure of the dock or un-insulated pipes 4" or greater (see chart in section 6.8.1 for pipe diameter and span requirements).

6.33.8 When working from an elevating lift platform (scissor lift, aerial lift, etc.) directly over water, fall protection is prohibited, but employees shall wear a PFD at this time.

Note: All other fall protection requirements remain unchanged while utilizing an elevating lift platform and employees must be tied off at all other times.

- 6.33.9 When **fall protection** is required, it is still acceptable to wear a PFD in addition to the fall protection.
- 6.33.10 For a specific job where the situation is unclear, or requirements may not be feasible, discuss the situation with the LRD safety department.

6.34 Specific Guidelines for Working on the Docks

- 6.34.1 Ring buoys with at least 90 feet of line shall be provided and readily available for emergency rescue operations at the docks. The distance between ring buoys shall not exceed 200 feet.
- 6.34.2 Dock work activities which take place outside of the fixed guardrails shall have at least one rescue skiff with **both** a motor and oars immediately available **with a minimum of two qualified technicians on standby**.

6.35 Specific Guidelines for Working in the Ponds

- 6.35.1 Ring buoys with at least 90 feet of line shall be provided and readily available for emergency rescue operations at the ponds. The distance between ring buoys shall not exceed 200 feet.
- 6.35.2 Pond work activities which take place within the pond outside of the fixed guardrails shall have at least one rescue skiff with a motor **and/or** oars immediately available.

	Fall Pr	otection & PFD Re	quirements	while work	ing on the D	ocks	
					Bottom	Bottom	Mobile
	Outside of the	Outside of the	Hanging	Hanging	Supported	Supported	Equipment
	Fixed Handrail < 6'	Fixed Handrail ≥ 6'	Scaffold < 6'	Scaffold≥6'	Scaffold < 6'	Scaffold ≥ 6'	Over Water
Personal							
Flotation							
Device (PFD)	x		X		Х		х
Fall				1			
Protection		x		X		х	

X¹: If feasible, the hanging scaffold should be "green-tagged". If unfeasible and fall protection is required, refer to section 6.32.6. If scaffolding is "green-tagged" a PFD will be required.

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6.36 Temporary Guardrail Systems

- 6.36.1 Temporary Guardrail systems shall be constructed so that the top edge height of top rails shall be 42 inches plus or minus 3 inches above the walking/working level. Midrails shall be installed between the top rail and the walking working surface. Toe-boards shall be at least 4 inches in height and be attached to the guardrails at floor level.
- 6.36.2 Temporary Guardrail systems shall be capable of withstanding, without failure, a force of at least 200 pounds applied within 2 inches of the top edge, in any outward or downward direction, at any point along the top edge.
- 6.36.3 Permanent/Temporary/Scaffold Guardrails shall not be utilized as fall protection system anchorage without approval from the LRD Safety and Engineering Departments. Scaffolding railing has been certified as an approved anchorage point unless otherwise specified on the scaffold tag.

6.37 INCIDENT REPORTING

6.37.1 Any incident involving fall protection must be reported if it results or might have resulted in an injury to personnel or damage to property or equipment. The incident should be reported immediately to an MPC representative and a standard incident report form should be completed on the day of the incident. For more information on incident reporting, refer to Section RSW-0124-GV.

Revision Number	Description of Change	Written by	Approved by	Revision Date	Effective Date
0	Change procedural format	Safety	Refinery Management Team (RMT)		
1	Added provisions for working around skylights	Safety	R. Gautreau	4/14/09	4/14/09
2	Revision to Section 5.13 per KMS recommendation	Ritchie Hofmann	Refinery Management Team (RMT)	3/29/10	3/29/10
3	Addition of 5.12	Heath Bittel	Refinery Management Team (RMT)	8/4/11	8/4/11
4	Corrected grammatical errors & revisions in 2.3, 3.0, 4.2, 4.13, 5.3, 5.22.2, 5.23.1, 5.23.2, 5.23.3, 5.24.1, 5.24.3	Safety	Safety Department	8/26/11	8/26/11

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5	Grammatical errors corrected & 3 year review completed.	Safety	Safety Department	3/30/2012	3/30/2012
6	Added 5.15 regarding securing the lift by means of a self- retracting lanyard	Safety	Safety Department	4/27/2012	4/27/2012
7	5.7.2 was added to cover specialized fall protection systems	Safety	Safety	5/8/2012	5/8/2012
8	Added Hierarchy of Control section 5.0	Safety	Safety	11/10/2013	11/10/13
9	6.24.4 & 6.24.6 were updated to include the requirement to return any defective fall protection equipment to the safety department and the tagging requirement.	Safety	Safety	4/15/2014	4/15/2014
10	Added: ANSI references (3.0, 6.11, 6.22.1, 6.23.1), LE definition (4.11), rescue anchorage (6.5.3) pipe support guidelines (6.6.1), SRL requirements (6.7.2, 6.23.3). Revised: Aerial lift exit procedures (6.15.1-3), decking/grating remova (6.16), equipment availability and compatibility (6.20), annual inspection coordination (6.26.5).	, Rebecca Bedell	LRD Staff	12/1/14	12/1/14
11	Removed Division Manager for Variance/Exception signature. Division Manager has authorized Operations/Maintenance Managers as a designee Per 2015 Tier II API PSM Assessment	A. Morales	RLT/VPP	12/29/2015	12/29/2015
12	Added language regarding a rescue boat when dock work is taking place, as well as language when working outside of the fixed handrails and hanging scaffold. MOC # M20173402-001	A. Fortie	VPP-4/20/17 RLT-4/27/17	5/1/2017	5/1/2017
13	Routine triennial review, no changes	Safety	Safety	12/14/2018	12/14/2018

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14	Added language to include requirements of fall protection when working around rotating equipment such as machining flanges. Section: 6.21	A. Morales	VPP 7/11/18 RLT 8/27/18	8/27/18	8/27/18
15	Added Fall Restraint to Hierarchy Added guidelines and clarity for fall protection requirements while working over/near water. Noted when working outside of the fixed handrails, above water, employees must utilize fall protection if the distance from the walking/working surface to the water's surface is 6 feet or greater. General Language Cleanup	Ean Rainey	VPP – 9/20/18 RLT- 1-31-19	2/5/2019	2/5/2019
16	Included guidance on Tier 1 Grating and Platform Survey Checklist.	Ean Rainey	VPP – 5/29/19 RLT – 9-12-19	9/27/19	11/1/19
17	Added ownership of RSW-FORM-02-GV	Safety	Learning Team- Recommendation 235061	5/28/21	5/28/21
18	Grammatical errors corrected & 3 year review completed. 6.18 posting requirement of Form 02 GV	Safety	Safety/ RLT	12/14/21	12/14/21

8.0 APPENDICES

Appendix A

Fall Protection Pre-Plan Assessment

This form must be completed by the requesting company representative prior to the installation of vertical/horizontal lifelines and engineered solutions. This form shall accompany the work permit to complete the lifeline installation and be retained with the permit book.

Date:	Time:
Comp	bany:
Work	Scope:
1. Ide 	entify the area where fall protection will be utilized:
2. Ide	entify all fall hazards that should be considered for job completion:
3. Ide	entify the method of fall protection that will be utilized to complete the work.
	 Horizontal Lifeline Vertical Lifeline Engineered Solution
4. De ca Qu	efine the anchor points to be used to install the system. Note: Anchor points must be apable of sustaining 5,000 lbs. or twice the maximum arresting force as determined by a ualified Person. I-Beams, H-Beams, & Pipes 6" or larger are typically acceptable.
5. Ha	ave all personnel utilizing the above system been trained on the equipment? Y/N
6. Ec Re	quipment has been inspected for defects? Y/N (See Appendix B for Guidance. emove Defective Equipment from Service Immediately)
7. Is Y/	work being performed over or adjacent to a body of water where a drowning hazard exists? /N
	 a. If yes, have all necessary precautions been put in place (Life Jackets, Rescue Skiff, Ring Buoys)? Y/N
8. ls Y/	there adequate Rescue Team coverage on-site (Contact the Shift Supervisor to confirm)? /N
Signa	ture of Person Completing Form:
Safety	y Rep Signature:

				Append	lix
	<u>Annual</u>	Inspectio	on Criteria Checklist		
Date:	nspection Completed By:				
Equipment Manufacturer/Serial #	t:		Location:		_
If answer is YES to any item, ren	nove from	n service i	immediately.		
	Yes	No			
Tags Illegible			Self Retracting Lifeline (SRL /	Yo-Yo)	
Equipment Does Not Meet				Yes	No
ANSI/ASSP 2359			Physical Damage to Body		
Years Old			Damage To Any Part of Lanyard (Pull Out And Inspec The Entire Length)	t	
larness			Brake Mechanism Fails (Pull		
Cuts			Sharply to Engage)		
raying			Load Indicator Deployed on		
ADIASION			Hook(If Present)		
Damaged Stitching			NO Service Inspection by Manufacturer (Check Manual		
Chemical Exposure			for Frequency Requirements)		
lardwara					
Deformed					
Corrosion					
Rust					
Chemical Exposure					
anyard – Snap Hook/Carabiner.					
Gate Sticks/Catches					
Takes Only One Motion to Operate					
Deformed					
Corrosion					
KUSI Chemical Exposure					
Chemical Exposule					
anyard - Webbing	_	_			
Cuts					
Rurns					
Damaged Stitching					
Chemical Exposure					
Shock Absorber					
Shock absorber has been deployed					

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